

VMware vCloud Application Director API Programming

vCloud Application Director 6.0

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Using VMware vCloud Application Director API Programming

The *VMware® vCloud Application Director API Programming* guide provides information about Representational State Transfer (REST) APIs to software developers who are interested in creating RESTful clients.

This guide describes how to use REST APIs to automate an application deployment, configure cloud and service components, update a deployed application, and tear down a deployed application from a cloud environment in vCloud Application Director. You can use clients of the REST APIs to register for Advanced Message Queuing Protocol (AMQP) notifications when vCloud Application Director operations occur.

Intended Audience

This information is intended for software developers who are building hybrid cloud services. Developers must be familiar with technologies such as JSON, HTTPS, and AMQP.

Using vCloud Application Director REST APIs

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vCloud Application Director 6.0 supports REST API 2.0, the notification registration and export and import application packages REST API 1.0. All of the remaining REST APIs in REST API 1.0 are not supported.

Before you implement the REST APIs for automation purposes, verify the availability of application blueprints in the vCloud Application Director appliance user interface. You can also use the CLI to import application blueprints from vCloud Application Director 5.0 and 5.2 to the vCloud Application Director 6.0 appliance or between different vCloud Application Director 6.0 appliances.

NOTE If an application blueprint is modified, create a deployment profile that includes the changes for the REST API to use.

Set Up Environment

You must download and install a REST client application in your Web browser to make HTTP requests. The REST client must use valid user credentials to access the vCloud Application Director server.

IMPORTANT You cannot simultaneously use the REST client application on a Web browser tab and log in to vCloud Application Director appliance on another Web browser tab.

Use Basic Auth to authenticate with the vCloud Application Director server. Set Content-type and Accept HTTP headers to **application/json** in the REST client application.

To use REST APIs in a different group you must add a special HTTP header called **darwin-user-current-group**. The value of the header should be the name of that group otherwise the REST API uses the current user group. Always use this header so that the REST API behavior is not affected when the current group is changed in the CLI or vCloud Application Director user interface by the logged in user. Without this header the REST API might become inconsistent.

All of the URIs in REST API 2.0 have the prefix `https://ApplicationDirectorServerIP:8443/darwin/api/2.0`.

Resources

The REST API manages a set of resources, all of which are uniquely identifiable through a string identifier. The API also manages a collection of these resources. For example, the URI for a single resource instance can be `https://ApplicationDirectorServerIP:8443/darwin/api/2.0/ResourceTypeID`. The collection of the resource might return one or more different URIs.

For a sample deployment environment instance with an ID=5, the URI is `https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/5`. In this example, the URIs refer to a different collection of deployment environments `https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment?page=1&page-size=5` and `https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/4/deployment-environment`.

Table 1-1. List of Resources and Corresponding URIs

| Resource Name | Resource URI |
|--------------------------|---|
| Certificate | .../certificate/ <i>CertificateID</i> |
| Cloud Provider Type | .../cloud-provider-type/ <i>CloudProviderTypeID</i> |
| Cloud Provider | .../cloud-provider/ <i>CloudProviderID</i> |
| Deployment Environment | .../deployment-environment/ <i>DeploymentEnvironmentID</i> |
| Application | .../application/ <i>ApplicationID</i> |
| Application Version | .../application-version/ <i>ApplicationVersionID</i> |
| Logical Template Version | .../logical-template-version/ <i>LogicalTemplateVersionID</i> |
| Service Version | .../service-version/ <i>ServiceVersionID</i> |
| Operating System Version | .../operating-system-version/ <i>OperatingSystemVersionID</i> |
| Tag | .../tag/ <i>TagID</i> |
| Deployment Profile | .../deployment-profile/ <i>DeploymentProfileID</i> |
| Blueprint | .../blueprint/ <i>BlueprintID</i> |
| Cloud Template | .../registered-physical-template/ <i>RegisteredPhysicalTemplateID</i> |
| Deployment | .../deployment/ <i>DeploymentID</i> |
| Deployment Task | .../deployment-task/ <i>DeploymentTaskID</i> |
| Update Profile | .../update-profile/ <i>UpdateProfileID</i> |
| Group | .../group/current |

References

REST APIs use references to resources and resource collections wherever possible to keep the data size concise and tractable. The vCloud Application Director REST API supports the following types of references.

| | |
|----------------------------|---|
| Resource References | Point to existing resources. They include the identifier of the resource, the name of the resource, and the relative URI used to access the resource. |
| List References | Point to a collection of resources. List references include only a relative URI that returns a list of resources. |
| External References | Point to items that are external to vCloud Application Director. They include an identifier that points to an external item such as a cloud template and the name of the external resource. |

HTTP Methods

The REST APIs support the following HTTP methods.

| | |
|---------------|--|
| GET | Retrieve data. |
| POST | Modify data, perform an action, or create an object. |
| PUT | Modify or replace data. |
| DELETE | Delete data. |

REST APIs for Groups

You can view a list of groups a user belongs to and the group details of the logged in user only. You cannot view the list of groups another user belongs to in the same login session. To create groups, you must use the CLI command.

Get Groups

Retrieves a list of groups that the logged in vCloud Application Director user belongs to.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/group`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/group`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 3,
  "results": [
    {
      "id": "2",
      "lockVersion": 1,
      "name": "QA",
      "description": "Quality Assurance.",
      "lastUpdated": 1378692213749,
      "lastUpdateUser": "SYSTEM",
      "created": 1378692213749,
      "createUser": "SYSTEM"
    },
    {
```

```

    "id": "1",
    "lockVersion": 1,
    "name": "Default",
    "description": "The Default vCloud Application Director group.",
    "lastUpdated": 1378692213591,
    "lastUpdateUser": "SYSTEM",
    "created": 1378692213591,
    "createUser": "SYSTEM"
  },
  {
    "id": "3",
    "lockVersion": 1,
    "name": "R-D",
    "description": "Research and development.",
    "lastUpdated": 1378692213750,
    "lastUpdateUser": "SYSTEM",
    "created": 1378692213750,
    "createUser": "SYSTEM"
  }
]
}

```

Get Group Details

Retrieves current group details of the user logged in to vCloud Application Director.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/group/current`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/group/current`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "1",
    "lockVersion": 1,
    "name": "Default",
    "description": "The Default vCloud Application Director group.",
    "lastUpdated": 1378692213591,
    "lastUpdateUser": "SYSTEM",
  }
}

```

```
"created": 1378692213591,  
"createUser": "SYSTEM"  
}  
}
```


REST APIs for Certificates

You can view the available certificates from the truststore and import existing certificates to the vCloud Application Director server trusted list.

Get Certificates

Retrieves all of the existing certificates from the truststore.

The user account with the **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate`

Response

```
{
  "errors":false,
  "messageList":[
  ],
  "count":0,
  "results":[
    {
      "id":"1",
      "lockVersion":0,
      "name":"appd.test1",
      "description":"appd test1 host",
      "lastUpdated":1379543429798,
      "lastUpdateUser":"admin",
      "created":1379543429798,
      "createUser":"admin",
      "alias":"appd.test1",
      "type":"Certificate",
```

```

      "thumbprint": "AF:8B:67:62:A1:E5:28:22:81:61:A9:5D:5C:55:9E:E2:66:27:8F:75:D7:9E:
83:01:89:A5:03:50:6A:BD:6B:4C"
    },
    {
      "id": "2",
      "lockVersion": 0,
      "name": "appd.test2",
      "description": "appd test2 host",
      "lastUpdated": 1379543839084,
      "lastUpdateUser": "admin",
      "created": 1379543839084,
      "createUser": "admin",
      "alias": "appd.test2",
      "type": "Certificate",
      "thumbprint": "AF:8B:67:62:A1:E5:28:22:81:61:A9:5D:5C:55:9E:E2:66:27:8F:75:D7:9E:
83:01:89:A5:03:50:6A:BD:6B:4C"
    }
  ]
}

```

Get Certificate Details

Retrieves the existing certificates from the truststore based on the provided ID.

The user account with the **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate/CertificateID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate/1

Response

```

{
  "errors": false,
  "messageList": [
  ],
  "result": {
    "id": "1",
    "lockVersion": 0,
    "name": "appd.test1",
    "description": "appd test1 host",
    "lastUpdated": 1379543429798,
    "lastUpdateUser": "admin",
    "created": 1379543429798,
    "createUser": "admin",
    "alias": "appd.test1",
    "type": "Certificate",

```

```

    "thumbprint": "AF:8B:67:62:A1:E5:28:22:81:61:A9:5D:5C:55:9E:E2:66:27:8F:75:D7:9E:
83:01:89:A5:03:50:6A:BD:6B:4C"
  }
}

```

Import Certificate

Imports a certificate to the vCloud Application Director server trusted list.

The user account with the **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate-importer`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate-importer`

Request

Table 3-1. Description for Response Messages

| Response Message | Description |
|------------------|---|
| alias | Represents the unique or domain name. |
| type | Represents the supported type. The supported type is Certificate. |
| sslTrusts | Represents the encoded certificate value . |

```

{
  "alias": "test_env",
  "type": "Certificate",

  "ssltrust": "MIIDajCCA1KgAwIBAgIGATTE5hINMA0GCSqGSIb3DQEBBQUAMFIxIDAeBgNVBAMMF0FwcGxpY2F0aW9uIERpc
mVjdG9yIENBMR0wGwYDVQQQLDBBRBcHBsawNhdGlvbiBEaXJlY3RvcjEPMA0GA1UECgwGVk13YXJlMB4XDTEyMDUwMDEwMTUzOV
oXDTMyMDEwNDIzNTUzOVowVjEkMCIGA1UEAwwbQXBwbGljYXRpb24gRGlyZW50b3IuU2VudmVYMR0wGwYDVQQQLDBBRBcHBsawN
hdGlvbiBEaXJlY3RvcjEPMA0GA1UECgwGVk13YXJlMIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAYwgAi4MptZRh
JSz1bCtSqJLzbxRr1ySPCF7TBM3kWdG4xyneIcl9oiq4zG2gdyMJkeDEzzCi4akC+Ix2AVimBPyG811fAY9KLQ
+NVuzUJzFT6nNonQ4WfoJ09joC1R2whKXSleylp5pRPaLhnuKKuYxLFUJfywD1Xcq3JB7BQie7gbTeyub1+9/mmBFBc3JBIcT
Kb/mDliZBBz/vXq27uLJ6neyX22vIfNX7DfLw8huTf7/Enl1bAXcsodUZwZkqGLYVmwMG/5s4X0y/m+ZS6mBrazUCGd
+nt3HvWovrntwpy1toDcylbMIktgimZcCJbQTwq38v/KMZMNz4zwIDAQAB0IwQDAdBgNVHQ4EFgQU7kDFZwP-iBLCMEcWCh
hyqWtJ9+XgwHwYDVR0jBBgwFoAUWHOnlItMd6lG6DB
+qDvK4drY4kEwDQYJKoZIhvcNAQEFBQADggEBACH2IzNAzmSbhdOCQ4p9/1ekDwaMf8/+gswd4TBhx5kCFtXgeYJd9aRyT4xw
TfZzBHYa/s0NoiPwJFPd2QmstkCAI4vDCynr28rIYz7LTwx2+OJ9uF7PNnk/P3j5Ex2z8QIEVgRsdnIx2R2IqD7QTfaxH8+fo
4C2QY2ivtUcGSHHeg7eKIYI/SHTpf
+omQM79kUX5LUtreM5+9T4mXjz2bsaupnrBwOPkyLnJYuURJlRn0yFhCR0gppHjHdSgOs9LGkGyust2kIoZymeufMAFVnXd4S
TcPKG06CnsReMjliLHrvj7mxoCspP+5B0Vrj0Kz7Q9oJxDqBR6yVng5iLXobao="
}

```

Response

```
{
  "errors":false,
  "messageList":[
  ],
  "result":{
    "id":"29",
    "lockVersion":0,
    "name":"test-env",
    "description":"test-env",
    "lastUpdated":1379701731051,
    "lastUpdateUser":"admin",
    "created":1379701731051,
    "createUser":"admin",
    "alias":"test-env",
    "type":"Certificate",
    "thumbprint":"98:23:95:64:54:9C:94:58:6A:C5:68:11:9B:60:83:F9:4E:C1:A6:A1:DE:19:CB:DB:
34:79:B5:51:74:45:4E:1A"
  }
}
```

Delete Certificate Details

Removes the existing certificate from the truststore based on the provided ID.

The user account with the **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

DELETE

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate/CertificateID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/certificate/1

Response

```
{
  "errors":false,
  "messageList":[
    {
      "messageType":"INFO",
      "message":"Successfully deleted CertificateStoreEntry.",
      "messageKey":"delete.msg",
      "property":null
    }
  ]
}
```


REST APIs for Applications

You can view applications and associated application versions. The APIs are useful for retrieving all of the existing application and application versions in the current group. You can create an application in the vCloud Application Director user interface. You can also use the CLI to import applications from vCloud Application Director 5.0 and 5.2 versions to the vCloud Application Director 6.0 appliance or between different vCloud Application Director 6.0 appliances.

Get Applications

Retrieves a paginated list of applications and associated application versions in vCloud Application Director.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application?page=Page&page-size=PageSize`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application?page=0&page-size=1`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 4,
  "results": [
    {
      "id": "599",
      "lockVersion": 1,
      "name": "Clustered DotShoppingCart",
      "description": "An ASP.NET E-Commerce and CMS solution.",
      "lastUpdated": 1378763304778,
      "lastUpdateUser": "SYSTEM",
      "created": 1378763304778,
    }
  ]
}
```

```

    "createUser": "SYSTEM",
    "applicationVersions": [
      {
        "id": "598",
        "lockVersion": 1,
        "name": "Clustered DotShoppingCart",
        "description": "Three-tier DotShoppingCart on Windows Server 2008 R2; Apache HTTP
Server for load balancer, Microsoft IIS for application server, and Microsoft SQL Server for
database server.",
        "lastUpdated": 1331830800000,
        "lastUpdateUser": "SYSTEM",
        "created": 1331830800000,
        "createUser": "SYSTEM",
        "version": {
          "major": "1",
          "minor": "0",
          "micro": "0",
          "qualifier": ""
        },
        "deploymentProfileListRef": {
          "uri": "/darwin/api/2.0/application-version/598/deployment-profile"
        },
        "blueprintRef": {
          "uri": "/darwin/api/2.0/blueprint/598",
          "id": "99",
          "name": "DotShoppingCart_Open_Source_Edition"
        },
        "groupMembership": {
          "id": "100599",
          "lockVersion": 1,
          "ownerGroupRef": {
            "uri": null,
            "id": "1",
            "name": "Default"
          }
        }
      }
    ],
    "groupMembership": {
      "id": "100599",
      "lockVersion": 1,
      "ownerGroupRef": {
        "uri": null,
        "id": "1",
        "name": "Default"
      }
    }
  ]
}

```

Get Application Version

Retrieves an application version in vCloud Application Director based on the application version identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application-version/ApplicationVersionID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

The *ApplicationID* variable has the object-type-id format, which is used across several vCloud Application Director REST APIs. In this case, the object type is the application and the id is the id element that was retrieved from the `get applications` call.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application-version/598`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "598",
    "lockVersion": 1,
    "name": "Clustered DotShoppingCart",
    "description": "Three-tier DotShoppingCart on Windows Server 2008 R2; Apache HTTP Server for
load balancer, Microsoft IIS for application server, and Microsoft SQL Server for database
server.",
    "lastUpdated": 1331830800000,
    "lastUpdateUser": "SYSTEM",
    "created": 1331830800000,
    "createUser": "SYSTEM",
    "version": {
      "major": "1",
      "minor": "0",
      "micro": "0",
      "qualifier": ""
    },
    "deploymentProfileListRef": {
      "uri": "/darwin/api/2.0/application-version/598/deployment-profile"
    },
    "blueprintRef": {
      "uri": "/darwin/api/2.0/blueprint/598",
      "id": "99",
      "name": "DotShoppingCart_Open_Source_Edition"
    },
    "groupMembership": {
      "id": "100599",
```

```

    "lockVersion": 1,
    "ownerGroupRef": {
      "uri": null,
      "id": "1",
      "name": "Default"
    }
  }
}
}
}

```

Get Application by ID

Retrieves an application based on the provided identification and corresponding application versions in vCloud Application Director.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application/ApplicationID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

The *ApplicationID* variable has the object-type-id format, which is used across several vCloud Application Director REST APIs. In this case, the object type is the application and the id is the id element that was retrieved from the `get applications` call. The *ApplicationID* variable is the id element created when you run the Get Applications REST API.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application/599`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "599",
    "lockVersion": 1,
    "name": "Clustered DotShoppingCart",
    "description": "An ASP.NET E-Commerce and CMS solution.",
    "lastUpdated": 1378763304778,
    "lastUpdateUser": "SYSTEM",
    "created": 1378763304778,
    "createUser": "SYSTEM",
    "applicationVersions": [
      {
        "id": "598",
        "lockVersion": 1,
        "name": "Clustered DotShoppingCart",
        "description": "Three-tier DotShoppingCart on Windows Server 2008 R2; Apache HTTP Server for load balancer, Microsoft IIS for application server, and Microsoft SQL Server for database server.",

```

```

    "lastUpdated": 1331830800000,
    "lastUpdateUser": "SYSTEM",
    "created": 1331830800000,
    "createUser": "SYSTEM",
    "version": {
      "major": "1",
      "minor": "0",
      "micro": "0",
      "qualifier": ""
    },
    "deploymentProfileListRef": {
      "uri": "/darwin/api/2.0/application-version/598/deployment-profile"
    },
    "blueprintRef": {
      "uri": "/darwin/api/2.0/blueprint/598",
      "id": "99",
      "name": "DotShoppingCart_Open_Source_Edition"
    },
    "groupMembership": {
      "id": "100599",
      "lockVersion": 1,
      "ownerGroupRef": {
        "uri": null,
        "id": "1",
        "name": "Default"
      }
    }
  ],
  "groupMembership": {
    "id": "100599",
    "lockVersion": 1,
    "ownerGroupRef": {
      "uri": null,
      "id": "1",
      "name": "Default"
    }
  }
}

```


REST APIs for Application Blueprints

You can view the application blueprint associated with an application version and the specific node component details of the application blueprint.

Get Application Blueprint

Retrieves the application blueprint for an application version.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/blueprint/ApplicationVersionID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/blueprint/598`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "99",
    "lockVersion": 1,
    "nodes": [
      {
        "id": "98",
        "lockVersion": 1,
        "name": "AppServer",
        "description": "Application/web server tier node",
        "cluster": true,
        "clusterSize": 1,
        "memoryMb": 2048,
        "vcpuCount": 1,
        "hostname": ""
      }
    ]
  }
}
```

```

    "logicalTemplateVersionRef": {
      "uri": "/darwin/api/2.0/logical-template-version/313",
      "id": "313",
      "name": "W2K8 R2 Enterprise SP1 v1.0.0"
    },
    "osVersionRef": {
      "uri": "/darwin/api/2.0/operating-system-version/111",
      "id": "111",
      "name": "WIN64 v6.1.7601"
    },
    "serviceNodeComponents": [
[...]
      {
        "id": "498",
        "lockVersion": 0,
        "name": "IIS_with_.NET_W2K8R2",
        "description": null,
        "nodeComponentDetailsRef": {
          "uri": "/darwin/api/2.0/node-component-details/498",
          "id": "498",
          "name": "IIS_with_.NET_W2K8R2"
        },
        "serviceRef": {
          "uri": "/darwin/api/2.0/service-version/297",
          "id": "297",
          "name": "Microsoft IIS with .Net Framework on W2K8R2 v1.0.0"
        },
        "preinstalled": false,
        "applicationNodeComponents": [
          {
            "id": "495",
            "lockVersion": 0,
            "name": "DotShoppingCart_App",
            "description": null,
            "nodeComponentDetailsRef": {
              "uri": "/darwin/api/2.0/node-component-details/495",
              "id": "495",
              "name": "DotShoppingCart_App"
            }
          }
        ]
      }
    ],
    "applicationNodeComponents": [],
    "disks": [],
    "nics": [
      {
        "id": "98",
        "lockVersion": 1,
        "name": "NIC0",
        "description": null,
        "networkName": "ServiceNetwork"
      }
    ]
  },

```



```

[...],
  "dependencies": [
    {
      "id": null,
      "lockVersion": 0,
      "fromComponentId": "496",
      "toComponentId": "497"
    },
    [...]
  ],
  "applicationVersionRef": {
    "uri": "/darwin/api/2.0/application-version/598",
    "id": "598",
    "name": "Clustered DotShoppingCart v1.0.0"
  }
}
}

```

Get Node Component Information

Retrieves the node component information such as property details, scripts, and overridable node component values.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/node-component-details/NodeComponentID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/node-component-details/495`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "495",
    "lockVersion": 0,
    "properties": [
      {
        "propertyDefinition": {
          "id": "782",
          "lockVersion": 0,
          "name": null,
          "description": null,
          "key": "NODE_INDEX",
          "type": "STRING",

```

```
        "secure": false,
        "required": true
    },
    "value": "${['self']['host']['node_array_index']}",
    "overrideable": false
},
[...],
],
"scripts": [
    {
        "id": "140",
        "lockVersion": 1,
        "lifecycleStage": "INSTALL",
        "scriptType": "Windows Cmd Script",
        "script": "[...]\n",
        "rebootAfter": false
    },
    [...],
]
}
}
```

REST APIs for Cloud Providers

You can view cloud provider and associated deployment environment information. You can also use the APIs to create and delete cloud providers.

Get Cloud Providers

Retrieves a paginated list of the cloud providers from the cloud environment.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider?page=Page&page-size=PageSize
```

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider?page=0&page-size=1
```

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "1",
      "lockVersion": 4,
      "name": "Cloud",
      "description": "",
      "lastUpdated": 1378765277631,
      "lastUpdateUser": "admin",
      "created": 1378764940480,
      "createUser": "admin",
      "cloudProviderTypeRef": {
        "uri": "/darwin/api/2.0/cloud-provider-type/1",

```

```

        "id": "1",
        "name": "vCloud 5.1.2"
    },
    "host": "vcloud.test.com",
    "proxyUrl": "",
    "credential": {
        "id": "2",
        "lockVersion": 2,
        "userName": "appdirector-qe",
        "passKey": "19Q1BRwamVEmN0yLxN6AqUErxMDQtyqQTu0lGect42bqVZeqMcw5jW9Y707onwG/",
        "encrypted": true,
        "type": "PASSWORD"
    },
    "properties": [
        {
            "propertyDefinition": {
                "id": "1023",
                "lockVersion": 0,
                "name": "Organization",
                "description": "vCloud Director Organization",
                "key": "organization",
                "type": "STRING",
                "secure": false,
                "required": false
            },
            "value": "QE",
            "overrideable": false
        }
    ],
    "deploymentEnvironmentListRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1/deployment-environment"
    }
}
]
}

```

Get Cloud Provider Types

Retrieves a list of the cloud provider type and associated deployment environment information from the cloud environment to create cloud providers.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider-type`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider-type`

Response

```

{
  "errors": false,
  "messageList": [],
  "count": 4,
  "results": [
  [...]
    {
      "id": "1",
      "lockVersion": 1,
      "name": "vCloud 5.1.2",
      "description": "vCloud cloud provider implementation used to provision VMs.",
      "nameMsgKey": null,
      "descriptionMsgKey": null,
      "cloudProviderPropertyDefs": [
        {
          "id": "1023",
          "lockVersion": 0,
          "name": "Organization",
          "description": "vCloud Director Organization",
          "key": "organization",
          "type": "STRING",
          "secure": false,
          "required": false
        }
      ],
      "deploymentEnvironmentPropertyDefs": [
        {
          "id": "1024",
          "lockVersion": 0,
          "name": "VDC URI",
          "description": "Virtual Data Center URI",
          "key": "vdc_uri",
          "type": "STRING",
          "secure": false,
          "required": false
        }
      ]
    }
  ]
}

```

Get Cloud Provider Type ID

Retrieves a cloud provider type and associated deployment environment information from the cloud environment to create cloud providers based on the provided ID.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider-type/CloudProviderID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider-type/1`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "1",
    "lockVersion": 1,
    "name": "vCloud 5.1.2 - 5.5",
    "description": "VCloud cloud provider implementation used to provision VMs.",
    "nameMsgKey": null,
    "descriptionMsgKey": null,
    "cloudProviderPropertyDefs": [
      {
        "id": "1023",
        "lockVersion": 0,
        "name": "Organization",
        "description": "vCloud Director Organization",
        "key": "organization",
        "type": "STRING",
        "secure": false,
        "required": false
      }
    ],
    "deploymentEnvironmentPropertyDefs": [
      {
        "id": "1024",
        "lockVersion": 0,
        "name": "VDC URI",
        "description": "Virtual Data Center URI",
        "key": "vdc_uri",
        "type": "STRING",
        "secure": false,
        "required": false
      }
    ]
  }
}
```

Get Cloud Provider Details

Retrieves all of the cloud provider information from the cloud environment.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/1`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "1",
    "lockVersion": 1,
    "name": "vCloud 5.1.2",
    "description": "vCloud cloud provider implementation used to provision VMs.",
    "nameMsgKey": null,
    "descriptionMsgKey": null,
    "cloudProviderPropertyDefs": [
      {
        "id": "1023",
        "lockVersion": 0,
        "name": "Organization",
        "description": "vCloud Director Organization",
        "key": "organization",
        "type": "STRING",
        "secure": false,
        "required": false
      }
    ],
    "deploymentEnvironmentPropertyDefs": [
      {
        "id": "1024",
        "lockVersion": 0,
        "name": "VDC URI",
        "description": "Virtual Data Center URI",
        "key": "vdc_uri",
        "type": "STRING",
        "secure": false,
        "required": false
      }
    ]
  }
}
```

Create Cloud Provider

Creates a cloud provider in the cloud environment.

Include **Content-Type=application/json** in the header.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider`

Request

```
{
  "id": "0",
  "lockVersion": 0,
  "name": "New Cloud",
  "description": "cloud provider description",
  "cloudProviderTypeRef": {
    "id": "1"
  },
  "host": "vcloud.test.com",
  "proxyUrl": "",
  "credential": {
    "userName": "appdirector-qe",
    "passKey": "password",
    "encrypted": false,
    "type": "PASSWORD"
  },
  "properties": [
    {
      "propertyDefinition": {
        "id": "1023",
        "lockVersion": 0,
        "name": "Organization",
        "description": "vCloud Director Organization",
        "key": "organization",
        "type": "STRING",
        "secure": false,
        "required": false
      },
      "value": "QE",
      "overrideable": false
    }
  ]
}
```


Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Cloud Provider saved successfully.",
      "messageKey": null,
      "property": null
    }
  ],
  "result": {
    "id": "5",
    "lockVersion": 1,
    "name": "New Cloud",
    "description": "cloud provider description",
    "lastUpdated": 1378924488110,
    "lastUpdateUser": "admin",
    "created": 1378924488110,
    "createUser": "admin",
    "cloudProviderTypeRef": {
      "uri": "/darwin/api/2.0/cloud-provider-type/1",
      "id": "1",
      "name": "vCloud 5.1.2"
    },
    "host": "vcloud.test.com",
    "proxyUrl": "",
    "credential": {
      "id": "6",
      "lockVersion": 0,
      "userName": "appdirector-qe",
      "passKey": "XLtppJs/YtTkJhHjuA47MOulHiz3WB0AsXBfVAH+VMukT8BLJwLb+RAKJo23uyhs",
      "encrypted": true,
      "type": "PASSWORD"
    },
    "properties": [
      {
        "propertyDefinition": {
          "id": "1023",
          "lockVersion": 0,
          "name": "Organization",
          "description": "vCloud Director Organization",
          "key": "organization",
          "type": "STRING",
          "secure": false,
          "required": false
        },
        "value": "QE",
        "overrideable": false
      }
    ],
    "deploymentEnvironmentListRef": {

```

```

        "uri": "/darwin/api/2.0/cloud-provider/5/deployment-environment"
    }
}
}

```

Test Cloud Provider Connection

Verifies that the cloud provider is connected to vCloud Application Director.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider-validator`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider-validator`

Request

```

{
  "cloudProviderTypeRef": {
    "id": "5"
  },
  "properties": [{ "propertyDefinition":
{"key": "provisioning_group_name", "id":"1", "type": "STRING"}
, "value": "default"}, {"propertyDefinition":
{"id":"2", "key": "provisioning_group_uri", "type": "STRING"}
, "value": "07e74e6a-4d05-43fe-b0ce-84048fdacd46"}], "host": "https://invalid.url","credential":
{ "userName":
"tony@coke.vmware.com", "passKey": "password", "encrypted": false, "type": "PASSWORD"}}' -u
admin:password -k
https://localhost:8443/darwin/api/2.0/cloud-provider-validator
}
}

```

Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Connection to the Cloud Provider at https://vcac-oci-061.test.com is
successful.",
      "messageKey": "cloudProvider.connection.success.msg",

```

```

        "property": null
    }
]
}

```

Delete Cloud Provider

Uses identification to delete the cloud provider from vCloud Application Director.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

DELETE

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/5`

Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Successfully deleted Cloud Provider.",
      "messageKey": "delete.msg",
      "property": null
    }
  ]
}

```

Get Associated Deployment Environment

Uses identification to retrieve the associated deployment environments of the cloud provider from the cloud environment.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/deployment-environment`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/1/deployment-environment`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 0,
  "results": [
    {
      "id": "1",
      "lockVersion": 4,
      "name": "DE",
      "description": "QA Deployment Environment",
      "lastUpdated": 1378765277632,
      "lastUpdateUser": "admin",
      "created": 1378765102894,
      "createUser": "admin",
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1",
        "id": "1",
        "name": "Cloud"
      },
      "properties": [
        {
          "propertyDefinition": {
            "id": "1024",
            "lockVersion": 0,
            "name": "VDC URI",
            "description": "Virtual Data Center URI",
            "key": "vdc_uri",
            "type": "STRING",
            "secure": false,
            "required": false
          },
          "value": "https:// vcloud.test.com/api/vdc/a2079642-0bde-42e5-8646-7a333618355b",
          "overrideable": false
        }
      ]
    }
  ]
}
```

REST APIs for Templates

You can view cloud template information from the cloud environment. Register multiple cloud templates to vCloud Application Director.

Get Template Category

Retrieves the cloud template category from the cloud environment.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/physical-template-category`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/1/physical-template-category`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 22,
  "results": [
    {
      "id": "0",
      "lockVersion": 0,
      "name": "QE-catalog",
      "description": null,
      "cloudTemplateCategoryExtref": {
        "id": "https://192.0.2.255/api/catalog/967ab959-5fcb-4c7d-bb3e-3a476048ee59",
        "name": "QE-catalog"
      }
    }
  ]
}
```

```

    }
  }
]
}

```

Find Template Information

Searches for a specific cloud template in the cloud environment.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/physical-template-finder`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/1/physical-template-finder`

Request

```

{
  "id": "https://192.0.2.255/api/catalog/967ab959-5fcb-4c7d-bb3e-3a476048ee59",
}

```

Response

```

{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "0",
      "lockVersion": 0,
      "name": "Centos58-32bit-base",
      "description": "",
      "lastUpdated": null,
      "lastUpdateUser": null,
      "created": null,
      "createUser": null,
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
df51ec56-3b3c-4f5d-8482-90fe212bffff",
        "name": "Centos58-32bit-base"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1",
        "id": "1",
        "name": "Cloud"
      }
    }
  ]
}

```

```

    },
    "osName": "centosGuest",
    "properties": [
      {
        "propertyDefinition": {
          "id": null,
          "lockVersion": 0,
          "name": null,
          "description": null,
          "key": "disksize",
          "type": null,
          "secure": false,
          "required": false
        },
        "value": "66560",
        "overrideable": false
      },
      {
        "propertyDefinition": {
          "id": null,
          "lockVersion": 0,
          "name": null,
          "description": null,
          "key": "goldMaster",
          "type": null,
          "secure": false,
          "required": false
        },
        "value": "false",
        "overrideable": false
      }
    ]
  }
]
}

```

Register a Template

Registers multiple cloud templates to vCloud Application Director. Provides a paginated list of all the registered templates.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/registered-physical-template`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/3/registered-physical-template
```

Request

```
{
  "list": [
    {
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
df51ec56-3b3c-4f5d-8482-90fe212bffff",
        "name": "Centos58-32bit-base"
      }
    }
  ]
}
```

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "4",
      "lockVersion": 2,
      "name": "Centos58-32bit-base",
      "description": "",
      "lastUpdated": 1378946109490,
      "lastUpdateUser": "admin",
      "created": 1378946096470,
      "createUser": "admin",
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
df51ec56-3b3c-4f5d-8482-90fe212bffff",
        "name": "Centos58-32bit-base"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/3",
        "id": "3",
        "name": "New Cloud"
      },
      "osName": "centosGuest",
      "properties": []
    }
  ]
}
```


Get Registered Templates

Retrieves registered cloud templates in vCloud Application Director from the cloud environment based on the cloud provider ID.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/registered-physical-template`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/1/registered-physical-template`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 2,
  "results": [
    {
      "id": "1",
      "lockVersion": 2,
      "name": "C56x32_v9",
      "description": "",
      "lastUpdated": 1378765277631,
      "lastUpdateUser": "admin",
      "created": 1378765191716,
      "createUser": "admin",
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-61ba1dd9-8759-48a5-bf6f-0e858bfc3744",
        "name": "C56x32_v9"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1",
        "id": "1",
        "name": "Cloud"
      },
      "osName": "centosGuest",
      "properties": []
    },
    {
      "id": "2",
      "lockVersion": 1,
      "name": "w2k8r2sp1_changesid_v5",
```

```

    "description": "Windows 2008 R2 Enterprise SP1 with ChangeSID enabled, bootstrap 5.0 and
JRE 1.6.0_31.",
    "lastUpdated": 1378765277632,
    "lastUpdateUser": "admin",
    "created": 1378765277630,
    "createUser": "admin",
    "cloudTemplateExtref": {
      "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
f57b63cd-20c0-4158-836f-13f7d9c39206",
      "name": "w2k8r2sp1_changesid_v5"
    },
    "cloudProviderRef": {
      "uri": "/darwin/api/2.0/cloud-provider/1",
      "id": "1",
      "name": "Cloud"
    },
    "osName": "windows7Server64Guest",
    "properties": []
  }
]
}

```

Get Registered Template Using ID

Retrieves the registered cloud template in vCloud Application Director from the cloud environment based on the provided ID.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/registered-physical-template/RegisteredPhysicalTemplateID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/registered-physical-template/2`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "2",
    "lockVersion": 1,
    "name": "w2k8r2sp1_changesid_v5",
    "description": "Windows 2008 R2 Enterprise SP1 with ChangeSID enabled, bootstrap 5.0 and JRE
1.6.0_31.",
    "lastUpdated": 1378765277632,
    "lastUpdateUser": "admin",

```

```

    "created": 1378765277630,
    "createUser": "admin",
    "cloudTemplateExtref": {
      "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
f57b63cd-20c0-4158-836f-13f7d9c39206",
      "name": "w2k8r2sp1_changesid_v5"
    },
    "cloudProviderRef": {
      "uri": "/darwin/api/2.0/cloud-provider/1",
      "id": "1",
      "name": "Cloud"
    },
    "osName": "windows7Server64Guest",
    "properties": []
  }
}

```

Replace a Template

Replaces multiple cloud templates in the cloud environment.

Verify that your user account has the **ROLE_CLOUD_ADMIN** cloud administrator role assigned to it.

HTTP Method

PUT

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/registered-physical-template`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/3/registered-physical-template`

Request

```

{
  "list": [
    {
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
df51ec56-3b3c-4f5d-8482-90fe212bffff",
        "name": "Centos58-32bit-base"
      }
    }
  ]
}

```

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "4",
      "lockVersion": 2,
      "name": "Centos58-32bit-base",
      "description": "",
      "lastUpdated": 1378946109490,
      "lastUpdateUser": "admin",
      "created": 1378946096470,
      "createUser": "admin",
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
df51ec56-3b3c-4f5d-8482-90fe212bffff",
        "name": "Centos58-32bit-base"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/3",
        "id": "3",
        "name": "New Cloud"
      },
      "osName": "centosGuest",
      "properties": []
    }
  ]
}
```

REST APIs for Logical Templates

You can view logical templates mapped to a cloud template. You can also use the APIs to manage these logical templates in the existing logical template list.

Get Logical Templates

Retrieves a paginated list of logical template versions from vCloud Application Director.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version?page=Page&page-size=PageSize`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version?page=0&page-size=1`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 16,
  "results": [
    {
      "id": "306",
      "lockVersion": 1,
      "name": "CentOS 32bit with MySQL",
      "description": "CentOS 6.3 32bit with MySQL Server 5.0",
      "lastUpdated": 1322020758327,
      "lastUpdateUser": "SYSTEM",
      "created": 1322020758327,
      "createUser": "SYSTEM",
      "version": {
```

```

    "major": "1",
    "minor": "0",
    "micro": "0",
    "qualifier": ""
  },
  "osVersionRef": {
    "uri": "/darwin/api/2.0/operating-system-version/115",
    "id": "115",
    "name": "CentOS32 v6.3.0"
  },
  "tags": [
    {
      "id": "9",
      "lockVersion": 1,
      "name": "Database Servers",
      "description": "Database servers",
      "lastUpdated": 1378763302507,
      "lastUpdateUser": "SYSTEM",
      "created": 1378763302507,
      "createUser": "SYSTEM",
      "type": "Server Type"
    },
    {
      "id": "20",
      "lockVersion": 1,
      "name": "OS Templates",
      "description": "OS Templates",
      "lastUpdated": 1378763302509,
      "lastUpdateUser": "SYSTEM",
      "created": 1378763302509,
      "createUser": "SYSTEM",
      "type": "Server Type"
    }
  ],
  "serviceVersions": [
    {
      "id": "215",
      "lockVersion": 1,
      "name": "Preinstalled MySQL Server for CentOS",
      "description": "MySQL Server 5.0 preinstalled in CentOS 6.3 32bit",
      "version": {
        "major": "5",
        "minor": "0",
        "micro": "0",
        "qualifier": ""
      },
      "properties": [],
      "scripts": [
        {
          "id": "50",
          "lockVersion": 1,
          "lifecycleStage": "CONFIGURE",
          "scriptType": "Bash Script",
          "script": "#!/bin/bash\n [...] ",
          "rebootAfter": false
        }
      ]
    }
  ]

```

```

    }
  ],
  "groupMembership": {
    "id": "413",
    "lockVersion": 1,
    "ownerGroupRef": {
      "uri": null,
      "id": "1",
      "name": "Default"
    }
  }
}
],
"groupMembership": {
  "id": "306",
  "lockVersion": 1,
  "ownerGroupRef": {
    "uri": null,
    "id": "1",
    "name": "Default"
  }
}
}
]
}

```

Get Logical Template Version Mapping

Retrieves a list of cloud templates mapped to a logical template in vCloud Application Director when you specify the cloud provider identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/LogicalTemplateVersionID/mapped-physical-template/cloud-provider/CloudProviderID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/313/mapped-physical-template/cloud-provider/1`

Response

```

{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {

```

```

    "id": "2",
    "lockVersion": 1,
    "name": "w2k8r2sp1_changesid_v5",
    "description": "Windows 2008 R2 Enterprise SP1 with ChangeSID enabled, bootstrap 5.0 and
JRE 1.6.0_31.",
    "lastUpdated": 1378765277632,
    "lastUpdateUser": "admin",
    "created": 1378765277630,
    "createUser": "admin",
    "cloudTemplateExtref": {
      "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-
f57b63cd-20c0-4158-836f-13f7d9c39206",
      "name": "w2k8r2sp1_changesid_v5"
    },
    "cloudProviderRef": {
      "uri": "/darwin/api/2.0/cloud-provider/1",
      "id": "1",
      "name": "Cloud"
    },
    "osName": "windows7Server64Guest",
    "properties": []
  }
]
}

```

Get Logical Template Version Details

Retrieves the specific logical template version based on the logical template version identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/LogicalTemplateVersionID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/313`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "313",
    "lockVersion": 2,
    "name": "W2K8 R2 Enterprise SP1",
    "description": "Windows Server 2008 R2 Enterprise SP1 VM",
    "lastUpdated": 1378765310743,
  }
}

```



```

"lastUpdateUser": "admin",
"created": 1331830800000,
"createUser": "SYSTEM",
"version": {
  "major": "1",
  "minor": "0",
  "micro": "0",
  "qualifier": ""
},
"osVersionRef": {
  "uri": "/darwin/api/2.0/operating-system-version/111",
  "id": "111",
  "name": "WIN64 v6.1.7601"
},
"tags": [
  {
    "id": "20",
    "lockVersion": 1,
    "name": "OS Templates",
    "description": "OS Templates",
    "lastUpdated": 1378763302509,
    "lastUpdateUser": "SYSTEM",
    "created": 1378763302509,
    "createUser": "SYSTEM",
    "type": "Server Type"
  }
],
"serviceVersions": [],
"groupMembership": {
  "id": "313",
  "lockVersion": 1,
  "ownerGroupRef": {
    "uri": null,
    "id": "1",
    "name": "Default"
  }
}
}
}

```

Create Logical Template Version

Creates a logical template version.

The user account with the `ROLE_CATALOG_ADMIN` catalog administrator role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version`

Request

```
{
  "id": "0",
  "lockVersion": 0,
  "name": "CentOS 32bit with MySQL 2",
  "description": "CentOS 6.3 32bit with MySQL Server 5.0",
  "version": {
    "major": "1",
    "minor": "0",
    "micro": "0",
    "qualifier": ""
  },
  "osVersionRef": {
    "id": "115",
    "name": "CentOS32 v6.3.0"
  },
  "tags": [
    {
      "id": "9",
      "name": "Database Servers",
      "description": "Database servers",
      "type": "Server Type"
    },
    {
      "id": "20",
      "name": "OS Templates",
      "description": "OS Templates",
      "type": "Server Type"
    }
  ],
  "serviceVersions": []
}
```

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Logical VM template version saved successfully.",
      "messageKey": "vmTemplateVersion.save.msg",
      "property": null
    }
  ],
  "result": {
    "id": "60088",
    "lockVersion": 1,
    "name": "CentOS 32bit with MySQL 2",
    "description": "CentOS 6.3 32bit with MySQL Server 5.0",
  }
}
```

```

"lastUpdated": 1378949002080,
"lastUpdateUser": "admin",
"created": 1378949002080,
"createUser": "admin",
"version": {
  "major": "1",
  "minor": "0",
  "micro": "0",
  "qualifier": ""
},
"osVersionRef": {
  "uri": "/darwin/api/2.0/operating-system-version/115",
  "id": "115",
  "name": "CentOS32 v6.3.0"
},
"tags": [
  {
    "id": "9",
    "lockVersion": 1,
    "name": "Database Servers",
    "description": "Database servers",
    "lastUpdated": 1378763302507,
    "lastUpdateUser": "SYSTEM",
    "created": 1378763302507,
    "createUser": "SYSTEM",
    "type": "Server Type"
  },
  {
    "id": "20",
    "lockVersion": 1,
    "name": "OS Templates",
    "description": "OS Templates",
    "lastUpdated": 1378763302509,
    "lastUpdateUser": "SYSTEM",
    "created": 1378763302509,
    "createUser": "SYSTEM",
    "type": "Server Type"
  }
],
"serviceVersions": [],
"groupMembership": {
  "id": "437091",
  "lockVersion": 0,
  "ownerGroupRef": {
    "uri": null,
    "id": "1",
    "name": "Default"
  }
}
}
}

```

Get Mapped Cloud Templates to a Logical Template

Retrieves the mapped cloud templates to a vCloud Application Director logical template..

The user account with the `ROLE_CATALOG_ADMIN` catalog administrator role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/LogicalTemplateVersionID/mapped-physical-template`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/60597/mapped-physical-template`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 2,
  "results": [
    {
      "id": "1",
      "lockVersion": 1,
      "name": "centos63x32",
      "description": "",
      "lastUpdated": 1383952048669,
      "lastUpdateUser": "admin",
      "created": 1383952048664,
      "createUser": "admin",
      "cloudTemplateExtref": {
        "id": "vcac://pg/ab9d048f-0ba7-414c-9676-c2ea0646823b/bp/4b125c3c-f6a3-4d19-93f9-3b99cd74d567",
        "name": "centos63x32"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1",
        "id": "1",
        "name": "vCAC-6.0-CP"
      },
      "osName": "",
      "properties": [
        {
          "propertyDefinition": {
            "id": "2004",
            "lockVersion": 0,
            "name": "reservation_policy_id",
            "description": null,

```

```

        "key": "reservation_policy_id",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "2005",
        "lockVersion": 0,
        "name": "provisioning_group_id",
        "description": null,
        "key": "provisioning_group_id",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "ab9d048f-0ba7-414c-9676-c2ea0646823b",
    "overrideable": false
}
]
},
{
    "id": "11",
    "lockVersion": 1,
    "name": "RHEL61x64",
    "description": "",
    "lastUpdated": 1383956550555,
    "lastUpdateUser": "admin",
    "created": 1383956550542,
    "createUser": "admin",
    "cloudTemplateExtref": {
        "id": "vcac://pg/56283f48-764a-43c3-bcf8-8905ca5b7e07/bp/2a6f4868-0dd8-430b-
bceb-2b8a72690998",
        "name": "RHEL61x64"
    },
    "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/3",
        "id": "3",
        "name": "ADAutomationCP-vcac-prme"
    },
    "osName": null,
    "properties": [
        {
            "propertyDefinition": {
                "id": "2004",
                "lockVersion": 0,
                "name": "reservation_policy_id",
                "description": null,
                "key": "reservation_policy_id",
                "type": "STRING",
                "secure": false,
                "required": true
            }
        }
    ]
}

```

```

    },
    "value": "3f98e478-f941-4aeb-ae4a-3cc77df908d3",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "2005",
      "lockVersion": 0,
      "name": "provisioning_group_id",
      "description": null,
      "key": "provisioning_group_id",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "56283f48-764a-43c3-bcf8-8905ca5b7e07",
    "overrideable": false
  }
]
}
]
}

```

Add Logical Template Mapping

Adds the mapped logical template to the existing logical template list.

The user account with the **ROLE_CATALOG_ADMIN** catalog administrator role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/LogicalTemplateVersionID/mapped-physical-template`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/3/mapped-physical-template`

Request

```

{
  "list": [
    {
      "id": "3"
    }
  ]
}

```

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "3",
      "lockVersion": 4,
      "name": "C63x32_v9",
      "description": "",
      "lastUpdated": 1378945924330,
      "lastUpdateUser": "admin",
      "created": 1378849355048,
      "createUser": "admin",
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-893d12f0-2c46-4ea9-a88b-d8269f605643",
        "name": "C63x32_v9"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1",
        "id": "1",
        "name": "Cloud"
      },
      "osName": "centosGuest",
      "properties": []
    }
  ]
}
```

Replace Logical Template Mapping

Replaces all of the mapped logical templates from the existing logical template list.

The user account with the `ROLE_CATALOG_ADMIN` catalog administrator role can access this API.

HTTP Method

PUT

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/LogicalTemplateVersionID/mapped-physical-template`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/3/mapped-physical-template`

Request

```
{
  "list": [
    {
      "id": "3"
    }
  ]
}
```

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "3",
      "lockVersion": 4,
      "name": "C63x32_v9",
      "description": "",
      "lastUpdated": 1378945924330,
      "lastUpdateUser": "admin",
      "created": 1378849355048,
      "createUser": "admin",
      "cloudTemplateExtref": {
        "id": "https://192.0.2.255/api/vAppTemplate/vappTemplate-893d12f0-2c46-4ea9-a88b-d8269f605643",
        "name": "C63x32_v9"
      },
      "cloudProviderRef": {
        "uri": "/darwin/api/2.0/cloud-provider/1",
        "id": "1",
        "name": "Cloud"
      },
      "osName": "centosGuest",
      "properties": []
    }
  ]
}
```

Update the Preinstalled Services

Updates the available preinstalled services when you specify the logical template version identification.

The user account with the `ROLE_CATALOG_ADMIN` catalog administrator role can access this API.

HTTP Method

POST

URI Syntax

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-
version/LogicalTemplateVersionID/preinstalled-services
```

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-
version/215/preinstalled-services
```

Request

```
{
  "list": [
    {
      "id": "215"
    }
  ]
}
```

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Logical VM template version saved successfully.",
      "messageKey": "vmTemplateVersion.save.msg",
      "property": null
    }
  ],
  "result": null
}
```

Delete the Logical Template Version

Deletes a logical template version from the existing logical template list.

The user account with the **ROLE_CATALOG_ADMIN** catalog administrator role can access this API.

HTTP Method

DELETE

URI Syntax

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-
version/LogicalTemplateVersionID
```

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/logical-template-version/320
```

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Successfully deleted Logical template version.",
      "messageKey": "delete.msg",
      "property": null
    }
  ]
}
```

REST APIs for Services

You can view the service versions and service version details. You can also use the CLI command to import services from vCloud Application Director 5.0 and 5.2 versions to the vCloud Application Director 6.0 appliance or between different vCloud Application Director 6.0 appliances.

Get Service Version

Retrieves a paginated list of service versions.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/service-version?page=Page&page-size=PageSize
```

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/service-version?page=0&page-size=1
```

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 22,
  "results": [
    {
      "id": "202",
      "lockVersion": 1,
      "name": "MySQL",
      "description": "MySQL 5.0\MySQL is the most popular open-source database system.",
      "version": {
        "major": "5",
        "minor": "0",
        "micro": "0",
        "qualifier": ""
      }
    }
  ]
}
```

```

    },
    "properties": [
      {
        "propertyDefinition": {
          "id": "900",
          "lockVersion": 0,
          "name": null,
          "description": null,
          "key": "global_conf",
          "type": "CONTENT",
          "secure": false,
          "required": true
        },
        "value": "https://192.0.2.255:8443/darwin/conf/darwin_global.conf",
        "overrideable": false
      },
      [...]
    ],
    "scripts": [
      {
        "id": "2",
        "lockVersion": 1,
        "lifecycleStage": "INSTALL",
        "scriptType": "Bash Script",
        "script": "#!/bin/bash\n# I[...] cut script ...]\n",
        "rebootAfter": false
      },
      [...]
    ],
    "groupMembership": {
      "id": "402",
      "lockVersion": 1,
      "ownerGroupRef": {
        "uri": null,
        "id": "1",
        "name": "Default"
      }
    }
  }
]
}

```

Get Service Version Details

Retrieves the service version details based on the provided identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/service-version/ServiceVersionID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/service-version/297`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "297",
    "lockVersion": 1,
    "name": "Microsoft IIS with .Net Framework on W2K8R2",
    "description": "Install and enable IIS Server 7 and .Net Framework 3.5 on Windows Server
2008 R2.",
    "version": {
      "major": "1",
      "minor": "0",
      "micro": "0",
      "qualifier": ""
    },
    "properties": [
      {
        "propertyDefinition": {
          "id": "806",
          "lockVersion": 0,
          "name": null,
          "description": null,
          "key": "Install_Path",
          "type": "COMPUTED",
          "secure": false,
          "required": false
        },
        "value": "",
        "overrideable": false
      }
    ],
    "scripts": [
      {
        "id": "109",
        "lockVersion": 1,
        "lifecycleStage": "INSTALL",
        "scriptType": "Windows Powershell Script",
        "script": "import-module Servermanager\nAdd-WindowsFeature Net-Framework\nAdd-
WindowsFeature web-asp-net\nAdd-WindowsFeature Web-Static-Content\nAdd-WindowsFeature as-http-
activation\nAdd-WindowsFeature web-mgmt-tools\n#Set Install Path to the default install path
(for monitoring)\n$Install_Path=\"${env:SYSTEMROOT}\\System32\\necho \""Install_Path is set to
$Install_Path, please modify this script if the install path is not correct.\""\"n",
        "rebootAfter": false
      }
    ],
    "groupMembership": {
      "id": "433",
      "lockVersion": 1,

```

```
    "ownerGroupRef": {  
      "uri": null,  
      "id": "1",  
      "name": "Default"  
    }  
  }  
}
```

REST APIs for Operating Systems

10

You can view the preinstalled operating system details included in vCloud Application Director.

Get Operating Systems

Retrieves the operating system details based on the provided ID.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/operating-system-version/OperatingSystemVersionID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/operating-system-version/111`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "111",
    "lockVersion": 1,
    "name": "WIN64",
    "description": "Windows Server 2008 R2 Enterprise SP1",
    "lastUpdated": 1331830800000,
    "lastUpdateUser": "SYSTEM",
    "created": 1331830800000,
    "createUser": "SYSTEM",
    "version": {
      "major": "6",
      "minor": "1",
      "micro": "7601",
      "qualifier": ""
    }
  }
}
```

```
    },  
    "architecture": "x86_64",  
    "osFamily": "Windows"  
  }  
}
```


REST APIs for Tags

You can view the tag associated with logical templates and services.

Get Tag

Retrieves a tag associated with a logical template or a service based on the provided ID.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/tag/TagID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/tag/20`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "20",
    "lockVersion": 1,
    "name": "OS Templates",
    "description": "OS Templates",
    "lastUpdated": 1378763302509,
    "lastUpdateUser": "SYSTEM",
    "created": 1378763302509,
    "createUser": "SYSTEM",
    "type": "Server Type"
  }
}
```


REST APIs for Deployment Environment

12

You can view the associated deployment environments to a cloud provider. You can also use the APIs to manage these deployment environments.

Get Deployment Environments

Retrieves a paginated list of deployment environments.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment?page=Page&page-size=PageSize`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment?page=0&page-size=10`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "1",
      "lockVersion": 4,
      "name": "DE",
      "description": "QA Deployment Environment",
      "lastUpdated": 1378765277632,
      "lastUpdateUser": "admin",
      "created": 1378765102894,
      "createUser": "admin",
      "cloudProviderRef": {
```

```

    "uri": "/darwin/api/2.0/cloud-provider/1",
    "id": "1",
    "name": "Cloud"
  },
  "properties": [
    {
      "propertyDefinition": {
        "id": "1024",
        "lockVersion": 0,
        "name": "VDC URI",
        "description": "Virtual Data Center URI",
        "key": "vdc_uri",
        "type": "STRING",
        "secure": false,
        "required": false
      },
      "value": "https://192.0.2.255/api/vdc/a2079642-0bde-42e5-8646-7a333618355b",
      "overrideable": false
    }
  ]
}
]
}

```

Get Deployment Environment

Retrieves the deployment environment based on the provided identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/DeploymentEnvironmentID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/1`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "1",
    "lockVersion": 4,
    "name": "DE",
    "description": "QA Deployment Environment",
    "lastUpdated": 1378765277632,
    "lastUpdateUser": "admin",
  }
}

```

```

    "created": 1378765102894,
    "createUser": "admin",
    "cloudProviderRef": {
      "uri": "/darwin/api/2.0/cloud-provider/1",
      "id": "1",
      "name": "Cloud"
    },
    "properties": [
      {
        "propertyDefinition": {
          "id": "1024",
          "lockVersion": 0,
          "name": "VDC URI",
          "description": "Virtual Data Center URI",
          "key": "vdc_uri",
          "type": "STRING",
          "secure": false,
          "required": false
        },
        "value": "https://192.0.2.255/api/vdc/a2079642-0bde-42e5-8646-7a333618355b",
        "overrideable": false
      }
    ]
  }
}

```

Create Deployment Environment

Creates a deployment environment.

The user account with the `ROLE_CLOUD_ADMIN` cloud administrator role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment`

Request

```

{
  "id": "0",
  "lockVersion": 0,
  "name": "New DE",
  "description": "Deployment Environment",
  "cloudProviderRef": {
    "uri": "/darwin/api/2.0/cloud-provider/1",
    "id": "1",
    "name": "Cloud"
  }
}

```

```

    },
    "properties": [
      {
        "propertyDefinition": {
          "id": "1024",
          "lockVersion": 0,
          "name": "VDC URI",
          "description": "Virtual Data Center URI",
          "key": "vdc_uri",
          "type": "STRING",
          "secure": false,
          "required": false
        },
        "value": "https://192.0.2.255/api/vdc/a2079642-0bde-42e5-8646-7a333618355b",
        "overrideable": false
      }
    ]
  }
}

```

Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Deployment Environment saved successfully.",
      "messageKey": "deploymentEnvironment.save.msg",
      "property": null
    }
  ],
  "result": {
    "id": "2",
    "lockVersion": 1,
    "name": "New DE",
    "description": "Deployment Environment",
    "lastUpdated": 1378935302738,
    "lastUpdateUser": "admin",
    "created": 1378935302737,
    "createUser": "admin",
    "cloudProviderRef": {
      "uri": "/darwin/api/2.0/cloud-provider/1",
      "id": "1",
      "name": "Cloud"
    }
  },
  "properties": [
    {
      "propertyDefinition": {
        "id": "1024",
        "lockVersion": 0,
        "name": "VDC URI",
        "description": "Virtual Data Center URI",
        "key": "vdc_uri",
        "type": "STRING",
        "secure": false,

```

```

        "required": false
      },
      "value": "https://192.0.2.255/api/vdc/a2079642-0bde-42e5-8646-7a333618355b",
      "overrideable": false
    }
  ]
}
}

```

Get Deployment Environment Property Values

Retrieves the property value definitions of a deployment environment associated to a cloud provider.

The user account with the **ROLE_CLOUD_ADMIN** cloud administrator role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/CloudProviderID/de-property-value-choices/Key`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/cloud-provider/3/de-property-value-choices/reservation_policy_uri`

Response

```

{
  "errors": false,
  "messageList": [],
  "count": 5,
  "results": [
    "vcac://auto",
    "vcac://rp/3f98e478-f941-4aeb-ae4a-3cc77df908d3",
    "vcac://rp/b942ab8d-10ff-41c2-b4e8-777c89e3cfbc",
    "vcac://rp/4443368b-8246-4194-9dd3-d4aecdd06996",
    "vcac://rp/0d73b1a2-efc-4ec0-bd25-d4b20dbfdf06"
  ]
}

```

Get Cloud Storage

Retrieves a list of cloud storage associated to a deployment environment.

The user account with the **ROLE_CLOUD_ADMIN** cloud administrator role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/DeploymentEnvironmentID/cloud-storage`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/3/cloud-storage`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "id": "0",
      "lockVersion": 0,
      "name": "gold",
      "description": null,
      "cloudStorageExtref": {
        "id": "vcac://sp/964185d6-3f40-44e0-9743-be5eed5528e1",
        "name": "gold"
      },
      "properties": []
    }
  ]
}
```

Get Cloud Network

Retrieves a list of cloud networks associated to a deployment environment.

The user account with the **ROLE_CLOUD_ADMIN** cloud administrator role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/DeploymentEnvironmentID/cloud-network`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/24/cloud-network`

Response

```

{
  "errors": false,
  "messageList": [],
  "count": 2,
  "results": [
    {
      "id": "0",
      "lockVersion": 0,
      "name": "AppDir-Direct",
      "description": null,
      "cloudNetworkExtref": {
        "id": "https://vcd-server-bat-3.test.com/api/admin/network/548d8ee5-2459-42b4-
        affc-920e8292f1c3",
        "name": "AppDir-Direct"
      },
      "properties": [
        {
          "propertyDefinition": {
            "id": null,
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "isolated",
            "type": null,
            "secure": false,
            "required": false
          },
          "value": "false",
          "overrideable": false
        },
        {
          "propertyDefinition": {
            "id": null,
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "routed",
            "type": null,
            "secure": false,
            "required": false
          },
          "value": "false",
          "overrideable": false
        },
        {
          "propertyDefinition": {
            "id": null,
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "gatewayIp",
            "type": null,

```

```

        "secure": false,
        "required": false
    },
    "value": "192.0.2.255.253",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": null,
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "pool",
        "type": null,
        "secure": false,
        "required": false
    },
    "value": "true",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": null,
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "bridged",
        "type": null,
        "secure": false,
        "required": false
    },
    "value": "true",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": null,
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "dhcp",
        "type": null,
        "secure": false,
        "required": false
    },
    "value": "false",
    "overrideable": false
}
]
},
{
    "id": "0",
    "lockVersion": 0,
    "name": "Test-Routed",
    "description": null,

```

```

"cloudNetworkExtref": {
  "id": "https://vcd-server-bat-3.test.com/api/admin/network/124f244a-
c3b4-4b0f-98c8-dbab4e95905e",
  "name": "Test-Routed"
},
"properties": [
  {
    "propertyDefinition": {
      "id": null,
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "isolated",
      "type": null,
      "secure": false,
      "required": false
    },
    "value": "false",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": null,
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "routed",
      "type": null,
      "secure": false,
      "required": false
    },
    "value": "true",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": null,
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "gatewayIp",
      "type": null,
      "secure": false,
      "required": false
    },
    "value": "192.0.2.255",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": null,
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "pool",

```

```

        "type": null,
        "secure": false,
        "required": false
    },
    "value": "true",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": null,
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "bridged",
        "type": null,
        "secure": false,
        "required": false
    },
    "value": "false",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": null,
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "dhcp",
        "type": null,
        "secure": false,
        "required": false
    },
    "value": "false",
    "overrideable": false
}
]
}
]
}

```

Delete Deployment Environment

Deletes the deployment environment associated to a cloud provider.

The user account with the **ROLE_CLOUD_ADMIN** cloud administrator role can access this API.

HTTP Method

DELETE

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/DeploymentEnvironmentID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-environment/2
```

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Successfully deleted Deployment Environment.",
      "messageKey": "delete.msg",
      "property": null
    }
  ]
}
```


REST APIs for Deployment Profiles

You can view deployment profile for an application version. You can also use the APIs to create and delete a deployment profile.

Get Deployment Profile ID

Retrieves the deployment profile for an application version based on the provided identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application-  
version/DeploymentProfileID/deployment-profile
```

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/application-version/513/deployment-  
profile
```

Response

```
{  
  "errors": false,  
  "messageList": [],  
  "count": 1,  
  "results": [  
    {  
      "id": "311",  
      "lockVersion": 1,  
      "name": "SPRING TRAVEL DP - IT",  
      "description": "IT Profile Content for Spring Travel App",  
      "lastUpdated": 1322020758327,  
      "lastUpdateUser": "SYSTEM",  
      "created": 1322020758327,  
      "createUser": "SYSTEM",  
      "profileNodes": [  

```

```

{
  "id": "20",
  "lockVersion": 1,
  "node": {
    "id": "16",
    "lockVersion": 1,
    "name": "SpringTravel",
    "description": "Spring Travel app node",
    "cluster": false,
    "clusterSize": 1,
    "memoryMb": 2048,
    "vcpuCount": 1,
    "hostname": "",
    "logicalTemplateVersionRef": {
      "uri": "/darwin/api/2.0/logical-template-version/324",
      "id": "324",
      "name": "CentOS63 32bit v1.0.0"
    },
  },
  "osVersionRef": {
    "uri": "/darwin/api/2.0/operating-system-version/115",
    "id": "115",
    "name": "CentOS32 v6.3.0"
  },
  "serviceNodeComponents": [],
  "applicationNodeComponents": [],
  "disks": [],
  "nics": [
    {
      "id": "8",
      "lockVersion": 1,
      "name": "NIC0",
      "description": null,
      "networkName": "ServiceNetwork"
    },
    {
      "id": "14",
      "lockVersion": 1,
      "name": "NIC1",
      "description": null,
      "networkName": "MgmtNetwork"
    }
  ],
  "physicalTemplateRef": {
    "uri": "/darwin/api/2.0/registered-physical-template/49",
    "id": "49",
    "name": "C63x32_v10"
  },
  "profileDisks": [],
  "properties": [
    {
      "propertyDefinition": {
        "id": "521",
        "lockVersion": 0,
        "name": "vCPU",

```



```

        "description": null,
        "key": "vCPU",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "1",
    "overrideable": true
}
[...]
```

```

    ]
}
],
"profileNodeComponents": [
{
    "id": "33",
    "lockVersion": 1,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "9820",
        "lockVersion": 0,
        "name": "SpringTravelApp",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/9820",
            "id": "9820",
            "name": "SpringTravelApp"
        }
    }
},
"properties": [
{
    "propertyDefinition": {
        "id": "152",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "war_file",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://nexus.springsource.com/service/local/repositories/darwin-
artifact-binary/content/com/vmware/darwin/app/swf-booking-mvc/1.0/swf-booking-mvc-1.0.war",
    "overrideable": true
}
[...]
```

```

    ],
    "scripts": []
},
{
    "id": "34",
    "lockVersion": 1,
    "name": null,
    "description": null,

```

```

    "nodeComponent": {
      "id": "9801",
      "lockVersion": 0,
      "name": "tcServer",
      "description": null,
      "nodeComponentDetailsRef": {
        "uri": "/darwin/api/2.0/node-component-details/9801",
        "id": "9801",
        "name": "tcServer"
      },
      "serviceRef": {
        "uri": null,
        "id": null,
        "name": null
      },
      "preinstalled": false,
      "applicationNodeComponents": []
    },
    "properties": [
      {
        "propertyDefinition": {
          "id": "905",
          "lockVersion": 0,
          "name": null,
          "description": null,
          "key": "global_conf",
          "type": "CONTENT",
          "secure": false,
          "required": true
        },
        "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf",
        "overrideable": true
      }
    ]
  },
  "scripts": []
}
],
"applicationVersionRef": {
  "uri": "/darwin/api/2.0/application-version/513",
  "id": "513",
  "name": "Spring Travel v1.0.0"
},
"deploymentProfileNetworkMappings": [
  {
    "id": "5",
    "lockVersion": 1,
    "networkName": "ServiceNetwork",
    "cloudNetworkExtref": {
      "id": "https://10.64.62.75/api/admin/network/c6c751df-4a78-4f18-bbef-82bb8e30372e",
      "name": "itest-PAYG-T2-direct"
    },
    "nodeNames": [
      "SpringTravel"
    ]
  }
]
[...]
```

```

    },
    {
      "id": "6",
      "lockVersion": 1,
      "networkName": "MgmtNetwork",
      "cloudNetworkExtref": {
        "id": "https://10.64.62.75/api/admin/network/c6c751df-4a78-4f18-bbef-82bb8e30372e",
        "name": "itest-PAYG-T2-direct"
      },
      "nodeNames": [
        "SpringTravel"
      ]
    }
  ],
  "deploymentEnvironmentRef": {
    "uri": "/darwin/api/2.0/deployment-environment/10",
    "id": "10",
    "name": "itest-PAYG-T2"
  }
}
]
}

```

Create Deployment Profile

Creates a deployment profile. You must specify the property values to override.

NOTE The URI should not contain a deployment profile identification. Remove the identification or set it as 0.

The user account with the **ROLE_DEPLOYER** deployer role or **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile`

Request

```

{
  "id": "",
  "lockVersion": 1,
  "name": "SPRING TRAVEL DP2",
  "description": "IT Profile Content for Spring Travel App",
  "lastUpdated": 1322020758327,
  "lastUpdateUser": "SYSTEM",
  "created": 1322020758327,

```

```

"createUser": "SYSTEM",
"profileNodes": [
  {
    "id": "20",
    "lockVersion": 1,
    "node": {
      "id": "16",
      "lockVersion": 1,
      "name": "SpringTravel",
      "description": "Spring Travel app node",
      "cluster": false,
      "clusterSize": 1,
      "memoryMb": 2048,
      "vcpuCount": 1,
      "hostname": "",
      "logicalTemplateVersionRef": {
        "uri": "/darwin/api/2.0/logical-template-version/324",
        "id": "324",
        "name": "CentOS63 32bit v1.0.0"
      },
    },
    "osVersionRef": {
      "uri": "/darwin/api/2.0/operating-system-version/115",
      "id": "115",
      "name": "CentOS32 v6.3.0"
    },
    "serviceNodeComponents": [],
    "applicationNodeComponents": [],
    "disks": [],
    "nics": [
      {
        "id": "8",
        "lockVersion": 1,
        "name": "NIC0",
        "description": null,
        "networkName": "ServiceNetwork"
      },
      {
        "id": "14",
        "lockVersion": 1,
        "name": "NIC1",
        "description": null,
        "networkName": "MgmtNetwork"
      }
    ]
  },
  {
    "physicalTemplateRef": {
      "uri": "/darwin/api/2.0/registered-physical-template/51",
      "id": "51",
      "name": "C63x32_OneMirror_v10"
    },
    "profileDisks": [],
    "properties": [
      {
        "propertyDefinition": {
          "id": "521",

```

```

        "lockVersion": 0,
        "name": "vCPU",
        "description": null,
        "key": "vCPU",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "1",
    "overrideable": true
}
]
}
],
"profileNodeComponents": [
{
    "id": "33",
    "lockVersion": 1,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "9820",
        "lockVersion": 0,
        "name": "SpringTravelApp",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/9820",
            "id": "9820",
            "name": "SpringTravelApp"
        }
    }
},
"properties": [
{
    "propertyDefinition": {
        "id": "152",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "war_file",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://nexus.springsource.com/service/local/repositories/darwin-
artifact-binary/content/com/vmware/darwin/app/swf-booking-mvc/1.0/swf-booking-mvc-1.0.war",
    "overrideable": true
}
],
"scripts": []
},
{
    "id": "34",
    "lockVersion": 1,
    "name": null,
    "description": null,

```

```

"nodeComponent": {
  "id": "9801",
  "lockVersion": 0,
  "name": "tcServer",
  "description": null,
  "nodeComponentDetailsRef": {
    "uri": "/darwin/api/2.0/node-component-details/9801",
    "id": "9801",
    "name": "tcServer"
  },
  "serviceRef": {
    "uri": null,
    "id": null,
    "name": null
  },
  "preinstalled": false,
  "applicationNodeComponents": []
},
"properties": [
  {
    "propertyDefinition": {
      "id": "905",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "global_conf",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf",
    "overrideable": true
  }
],
"scripts": []
}
],
"applicationVersionRef": {
  "uri": "/darwin/api/2.0/application-version/513",
  "id": "513",
  "name": "Spring Travel v1.0.0"
},
"deploymentProfileNetworkMappings": [
  {
    "id": "5",
    "lockVersion": 1,
    "networkName": "ServiceNetwork",
    "cloudNetworkExtref": {
      "id":
"https://vcloud.eng.vmware.com/api/network/b95fc04d-99cc-4b9d-965c-80e9915abdba",
      "name": "ExternalNetwork-IPPOOL"
    },
    "nodeNames": [
      "SpringTravel"
    ]
  }
]

```

```

    },
    {
      "id": "6",
      "lockVersion": 1,
      "networkName": "MgmtNetwork",
      "cloudNetworkExtref": {
        "id":
"https://vcloud.eng.vmware.com/api/network/5d69948b-1360-455f-888e-05bf48f8db26",
        "name": "appit-red.orgnet.org"
      },
      "nodeNames": [
        "SpringTravel"
      ]
    }
  ],
  "deploymentEnvironmentRef": {
    "uri": "/darwin/api/2.0/deployment-environment/5",
    "id": "5",
    "name": "itest-PAYG"
  }
}

```

Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Deployment Profile saved successfully.",
      "messageKey": "deployment.profile.save.msg",
      "property": null
    }
  ],
  "result": {
    "id": "1001",
    "lockVersion": 2,
    "name": "SPRING TRAVEL DP2",
    "description": "IT Profile Content for Spring Travel App",
    "lastUpdated": 1383599165170,
    "lastUpdateUser": "admin",
    "created": 1383599165129,
    "createUser": "admin",
    "profileNodes": [
      {
        "id": "1001",
        "lockVersion": 2,
        "node": {
          "id": "16",
          "lockVersion": 1,
          "name": "SpringTravel",
          "description": "Spring Travel app node",
          "cluster": false,
          "clusterSize": 1,
          "memoryMb": 2048,

```

```

"vcpuCount": 1,
"hostname": "",
"logicalTemplateVersionRef": {
  "uri": "/darwin/api/2.0/logical-template-version/324",
  "id": "324",
  "name": "CentOS63 32bit v1.0.0"
},
"osVersionRef": {
  "uri": "/darwin/api/2.0/operating-system-version/115",
  "id": "115",
  "name": "CentOS32 v6.3.0"
},
"serviceNodeComponents": [],
"applicationNodeComponents": [],
"disks": [],
"nics": [
  {
    "id": "8",
    "lockVersion": 1,
    "name": "NIC0",
    "description": null,
    "networkName": "ServiceNetwork"
  },
  {
    "id": "14",
    "lockVersion": 1,
    "name": "NIC1",
    "description": null,
    "networkName": "MgmtNetwork"
  }
]
},
"physicalTemplateRef": {
  "uri": "/darwin/api/2.0/registered-physical-template/51",
  "id": "51",
  "name": "C63x32_OneMirror_v10"
},
"profileDisks": [],
"properties": [
  {
    "propertyDefinition": {
      "id": "521",
      "lockVersion": 0,
      "name": "vCPU",
      "description": null,
      "key": "vCPU",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "1",
    "overrideable": true
  },
  {
    "propertyDefinition": {

```



```

        "id": "524",
        "lockVersion": 0,
        "name": "Hostname",
        "description": null,
        "key": "Hostname",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": true
}
]
},
"profileNodeComponents": [
{
    "id": "1001",
    "lockVersion": 2,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "9820",
        "lockVersion": 0,
        "name": "SpringTravelApp",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/9820",
            "id": "9820",
            "name": "SpringTravelApp"
        }
    }
},
{
    "properties": [
        {
            "propertyDefinition": {
                "id": "152",
                "lockVersion": 0,
                "name": null,
                "description": null,
                "key": "war_file",
                "type": "CONTENT",
                "secure": false,
                "required": true
            },
            "value": "https://nexus.springsource.com/service/local/repositories/darwin-artifact-
binary/content/com/vmware/darwin/app/swf-booking-mvc/1.0/swf-booking-mvc-1.0.war",
            "overrideable": true
        },
        {
            "propertyDefinition": {
                "id": "153",
                "lockVersion": 0,
                "name": null,
                "description": null,
                "key": "webapps_dir",

```

```

        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "${['self']['tcServer']['webapps_dir']}",
    "overrideable": false
}
],
"scripts": []
},
{
    "id": "1002",
    "lockVersion": 2,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "9801",
        "lockVersion": 0,
        "name": "tcServer",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/9801",
            "id": "9801",
            "name": "tcServer"
        },
    },
    "serviceRef": {
        "uri": null,
        "id": null,
        "name": null
    },
    "preinstalled": false,
    "applicationNodeComponents": []
},
"properties": [
    {
        "propertyDefinition": {
            "id": "905",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "global_conf",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf",
        "overrideable": true
    }
],
"applicationVersionRef": {
    "uri": "/darwin/api/2.0/application-version/513",
    "id": "513",
    "name": "Spring Travel v1.0.0"
},
"deploymentProfileNetworkMappings": [

```

```

{
  "id": "1001",
  "lockVersion": 1,
  "networkName": "ServiceNetwork",
  "cloudNetworkExtref": {
    "id": "https://darwin-vcloud-
cell.eng.vmware.com/api/network/b95fc04d-99cc-4b9d-965c-80e9915abdba",
    "name": "ExternalNetwork-IPPOOL"
  },
  "nodeNames": [
    "SpringTravel"
  ]
},
{
  "id": "1002",
  "lockVersion": 1,
  "networkName": "MgmtNetwork",
  "cloudNetworkExtref": {
    "id": "https://darwin-vcloud-
cell.eng.vmware.com/api/network/5d69948b-1360-455f-888e-05bf48f8db26",
    "name": "appit-red.orgnet.org"
  },
  "nodeNames": [
    "SpringTravel"
  ]
}
],
"deploymentEnvironmentRef": {
  "uri": "/darwin/api/2.0/deployment-environment/5",
  "id": "5",
  "name": "itest-PAYG"
}
}
}

```

Update Deployment Profile

Updates the existing deployment profile.

The user account with the **ROLE_DEPLOYER** deployer role or **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

POST

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile/DeploymentProfileID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile/454

Request

```

{
  "lockVersion": 1,
  "name": "Deployment Profile for CDB",
  "profileNodes": [
    {
      "id": "1314",
      "lockVersion": 1,
      "node": {
        "id": "2",
        "lockVersion": 7,
        "name": "database",
        "description": "DB TIER NODE",
        "cluster": false,
        "clusterSize": 1,
        "memoryMb": 512,
        "vcpuCount": 1,
        "hostname": "",
        "logicalTemplateVersionRef": {
          "uri": "/darwin/api/2.0/logical-template-version/324",
          "id": "324",
          "name": "CentOS63 32bit v1.0.0"
        },
      },
      "osVersionRef": {
        "uri": "/darwin/api/2.0/operating-system-version/115",
        "id": "115",
        "name": "CentOS32 v6.3.0"
      },
      "serviceNodeComponents": [],
      "applicationNodeComponents": [],
      "disks": [],
      "nics": [
        {
          "id": "1",
          "lockVersion": 7,
          "name": "NIC0",
          "description": null,
          "networkName": "ServiceNetwork"
        }
      ]
    },
    {
      "physicalTemplateRef": {
        "uri": "/darwin/api/2.0/registered-physical-template/1",
        "id": "1",
        "name": "centos63x32"
      },
      "profileDisks": [],
      "properties": [
        {
          "propertyDefinition": {
            "id": "501",
            "lockVersion": 0,
            "name": "vCPU",

```

```

        "description": null,
        "key": "vCPU",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "1",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "502",
        "lockVersion": 0,
        "name": "Memory(MB)",
        "description": null,
        "key": "Memory(MB)",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "512",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "503",
        "lockVersion": 0,
        "name": "ClusterSize",
        "description": null,
        "key": "ClusterSize",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "1",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "570",
        "lockVersion": 0,
        "name": "Hostname",
        "description": null,
        "key": "Hostname",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": true
}
]
},
{
    "id": "1315",

```

```

"lockVersion": 1,
"node": {
  "id": "3",
  "lockVersion": 7,
  "name": "appserver",
  "description": "APP SERVER TIER NODE",
  "cluster": true,
  "clusterSize": 1,
  "memoryMb": 2048,
  "vcpuCount": 1,
  "hostname": "",
  "logicalTemplateVersionRef": {
    "uri": "/darwin/api/2.0/logical-template-version/324",
    "id": "324",
    "name": "CentOS63 32bit v1.0.0"
  },
  "osVersionRef": {
    "uri": "/darwin/api/2.0/operating-system-version/115",
    "id": "115",
    "name": "CentOS32 v6.3.0"
  },
  "serviceNodeComponents": [],
  "applicationNodeComponents": [],
  "disks": [],
  "nics": [
    {
      "id": "2",
      "lockVersion": 7,
      "name": "NIC0",
      "description": null,
      "networkName": "ServiceNetwork"
    }
  ]
},
"physicalTemplateRef": {
  "uri": "/darwin/api/2.0/registered-physical-template/1",
  "id": "1",
  "name": "centos63x32"
},
"profileDisks": [],
"properties": [
  {
    "propertyDefinition": {
      "id": "504",
      "lockVersion": 0,
      "name": "vCPU",
      "description": null,
      "key": "vCPU",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "2",
    "overrideable": true
  },

```

```

    {
      "propertyDefinition": {
        "id": "505",
        "lockVersion": 0,
        "name": "Memory(MB)",
        "description": null,
        "key": "Memory(MB)",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "2048",
      "overrideable": true
    },
    {
      "propertyDefinition": {
        "id": "506",
        "lockVersion": 0,
        "name": "ClusterSize",
        "description": null,
        "key": "ClusterSize",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "3",
      "overrideable": true
    },
    {
      "propertyDefinition": {
        "id": "571",
        "lockVersion": 0,
        "name": "Hostname",
        "description": null,
        "key": "Hostname",
        "type": "STRING",
        "secure": false,
        "required": false
      },
      "value": "",
      "overrideable": true
    }
  ]
},
{
  "id": "1316",
  "lockVersion": 1,
  "node": {
    "id": "60102",
    "lockVersion": 4,
    "name": "load_balancer",
    "description": "WEB SERVER TIER NODE",
    "cluster": false,
    "clusterSize": 1,
    "memoryMb": 512,

```

```

"vcpuCount": 1,
"hostname": "",
"logicalTemplateVersionRef": {
  "uri": "/darwin/api/2.0/logical-template-version/324",
  "id": "324",
  "name": "CentOS63 32bit v1.0.0"
},
"osVersionRef": {
  "uri": "/darwin/api/2.0/operating-system-version/115",
  "id": "115",
  "name": "CentOS32 v6.3.0"
},
"serviceNodeComponents": [],
"applicationNodeComponents": [],
"disks": [],
"nics": [
  {
    "id": "60114",
    "lockVersion": 1,
    "name": "NIC1",
    "description": null,
    "networkName": "MgmtNetwork"
  },
  {
    "id": "60108",
    "lockVersion": 3,
    "name": "NIC0",
    "description": null,
    "networkName": "ServiceNetwork"
  }
]
},
"physicalTemplateRef": {
  "uri": "/darwin/api/2.0/registered-physical-template/1",
  "id": "1",
  "name": "centos63x32"
},
"profileDisks": [],
"properties": [
  {
    "propertyDefinition": {
      "id": "171446",
      "lockVersion": 0,
      "name": "Memory(MB)",
      "description": null,
      "key": "Memory(MB)",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "512",
    "overrideable": true
  },
  {
    "propertyDefinition": {

```



```

        "id": "171447",
        "lockVersion": 0,
        "name": "vCPU",
        "description": null,
        "key": "vCPU",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "1",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "171448",
        "lockVersion": 0,
        "name": "ClusterSize",
        "description": null,
        "key": "ClusterSize",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "1",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "171449",
        "lockVersion": 0,
        "name": "Hostname",
        "description": null,
        "key": "Hostname",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": true
}
]
},
"profileNodeComponents": [
    {
        "id": "3027",
        "lockVersion": 1,
        "name": null,
        "description": null,
        "nodeComponent": {
            "id": "1001",
            "lockVersion": 0,
            "name": "MySQL",
            "description": null,
            "nodeComponentDetailsRef": {

```

```

        "uri": "/darwin/api/2.0/node-component-details/1001",
        "id": "1001",
        "name": "MySql"
    },
    "serviceRef": {
        "uri": null,
        "id": null,
        "name": null
    },
    "preinstalled": false,
    "applicationNodeComponents": []
},
"properties": [
    {
        "propertyDefinition": {
            "id": "3",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "db_port",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "3306",
        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "288",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "max_allowed_packet",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "1024M",
        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "291",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "Install_Path",
            "type": "COMPUTED",
            "secure": false,
            "required": false
        },
        "value": "",
        "overrideable": false
    },
}

```

```

{
  "propertyDefinition": {
    "id": "292",
    "lockVersion": 0,
    "name": null,
    "description": null,
    "key": "db_root_password",
    "type": "STRING",
    "secure": true,
    "required": true
  },
  "value": "V!rtua1Mach!ne",
  "overrideable": true
},
{
  "propertyDefinition": {
    "id": "298",
    "lockVersion": 0,
    "name": null,
    "description": null,
    "key": "db_root_username",
    "type": "STRING",
    "secure": false,
    "required": true
  },
  "value": "root",
  "overrideable": false
},
{
  "propertyDefinition": {
    "id": "900",
    "lockVersion": 0,
    "name": null,
    "description": null,
    "key": "global_conf",
    "type": "CONTENT",
    "secure": false,
    "required": true
  },
  "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf",
  "overrideable": true
},
{
  "propertyDefinition": {
    "id": "43010",
    "lockVersion": 0,
    "name": null,
    "description": null,
    "key": "JAVA_HOME",
    "type": "STRING",
    "secure": false,
    "required": true
  },
  "value": "/opt/vmware-jre",
  "overrideable": true
}

```

```

    }
  ],
  "scripts": []
},
{
  "id": "3028",
  "lockVersion": 1,
  "name": null,
  "description": null,
  "nodeComponent": {
    "id": "2000",
    "lockVersion": 0,
    "name": "initialize_db_script",
    "description": null,
    "nodeComponentDetailsRef": {
      "uri": "/darwin/api/2.0/node-component-details/2000",
      "id": "2000",
      "name": "initialize_db_script"
    }
  }
},
"properties": [
  {
    "propertyDefinition": {
      "id": "26",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "initialize_db_script",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/create_bank_db.sql",
    "overrideable": true
  },
  {
    "propertyDefinition": {
      "id": "40",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "db_username",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "dukes_admin",
    "overrideable": true
  },
  {
    "propertyDefinition": {
      "id": "41",
      "lockVersion": 0,
      "name": "",

```

```

        "description": null,
        "key": "db_password",
        "type": "STRING",
        "secure": true,
        "required": true
    },
    "value": "ENC{umXy9VOJ0FPbaIuUgFE3JA/snipG4YRCqsmIwWhC58cV
+3IQEK5RYkLlXNJ2pDiS}CNE",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "290",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "init_db_password",
        "type": "STRING",
        "secure": true,
        "required": true
    },
    "value": "${['database']['MySQL']['db_root_password']}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "296",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "init_db_username",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "${['database']['MySQL']['db_root_username']}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "299",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "sample_db",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "dukes_db",
    "overrideable": true
}
],
"scripts": []
},

```

```

{
  "id": "3029",
  "lockVersion": 1,
  "name": null,
  "description": null,
  "nodeComponent": {
    "id": "1002",
    "lockVersion": 0,
    "name": "JBossAppServer",
    "description": null,
    "nodeComponentDetailsRef": {
      "uri": "/darwin/api/2.0/node-component-details/1002",
      "id": "1002",
      "name": "JBossAppServer"
    }
  },
  "serviceRef": {
    "uri": null,
    "id": null,
    "name": null
  },
  "preinstalled": false,
  "applicationNodeComponents": [],
},
"properties": [
  {
    "propertyDefinition": {
      "id": "9",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "cheetah_install_script",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/cheetah_install.sh",
    "overrideable": true
  },
  {
    "propertyDefinition": {
      "id": "10",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "jboss_install_script",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/install.sh",
    "overrideable": true
  },
  {

```

```

    "propertyDefinition": {
      "id": "11",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "JBOSS_JMX_CONSOLE_USERS_TEMPLATE",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://{darwin.content.server.ip}/artifacts/services/jboss/jmx-
console-users.properties.tpl",
    "overrideable": true
  },
  {
    "propertyDefinition": {
      "id": "14",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "JBOSS_NAME_AND_VERSION",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "jboss-5.1.0.GA",
    "overrideable": true
  },
  {
    "propertyDefinition": {
      "id": "18",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "JBOSS_JMX_USER",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "admin",
    "overrideable": true
  },
  {
    "propertyDefinition": {
      "id": "19",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "cheetah_tgz_url",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://{
darwin.content.server.ip}/artifacts/services/jboss/cheetah-2.4.4.tar.gz",

```

```

        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "20",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "jboss_configure_script",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/configure.sh",
        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "22",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "JBOSS_JMX_PWD",
            "type": "STRING",
            "secure": true,
            "required": true
        },
        "value": "VirtualMachine",
        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "23",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "zip_url",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/jboss-5.1.0.GA.zip",
        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "24",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "JBOSS_INSTANCE_NAME",
            "type": "STRING",
            "secure": false,

```



```

        "required": true
    },
    "value": "default",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "25",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "Install_Path",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "38",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JBOSS_BOOTRC_TEMPLATE",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/boot.rc.tpl",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "162",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JVM_ROUTE",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "${['self']['host']['node_array_index']}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "901",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "global_conf",

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        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "2265",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JBOSS_PORT_NUMBER",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "8080",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "31505",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JAVA_HOME",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "/opt/vmware-jre",
    "overrideable": true
}
],
"scripts": []
},
{
    "id": "3030",
    "lockVersion": 1,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "3000",
        "lockVersion": 0,
        "name": "Dukes_Bank_App",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/3000",
            "id": "3000",
            "name": "Dukes_Bank_App"
        }
    }
},
"properties": [

```

```

{
  "propertyDefinition": {
    "id": "4",
    "lockVersion": 0,
    "name": "",
    "description": null,
    "key": "jboss_deploy_datasource_script",
    "type": "CONTENT",
    "secure": false,
    "required": true
  },
  "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/deploy_datasource.sh",
  "overrideable": true
},
{
  "propertyDefinition": {
    "id": "5",
    "lockVersion": 0,
    "name": "",
    "description": null,
    "key": "jboss_deploy_component_script",
    "type": "CONTENT",
    "secure": false,
    "required": true
  },
  "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/deploy_component.sh",
  "overrideable": true
},
{
  "propertyDefinition": {
    "id": "6",
    "lockVersion": 0,
    "name": "",
    "description": null,
    "key": "db_port",
    "type": "STRING",
    "secure": false,
    "required": true
  },
  "value": "${['database']['MySQL']['db_port']}",
  "overrideable": false
},
{
  "propertyDefinition": {
    "id": "7",
    "lockVersion": 0,
    "name": "",
    "description": null,
    "key": "db_host",
    "type": "STRING",
    "secure": false,
    "required": true
  },
  "value": "${['database']['MySQL']['db_host']}",
  "overrideable": false
}
}

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        "value": "${['database']['host']['ip']}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "12",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "JBoss_DATASOURCE_TEMPLATE",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/jboss-ds.xml.tmpl",
        "overrideable": true
    },
    {
        "propertyDefinition": {
            "id": "13",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "db_password",
            "type": "STRING",
            "secure": true,
            "required": true
        },
        "value": "${['database']['initialize_db_script']['db_password']}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "16",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "db_user",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "${['database']['initialize_db_script']['db_username']}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "17",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "EAR_FILE",
            "type": "CONTENT",
            "secure": false,

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        "required": true
    },
    "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/dukesbank-2b.ear",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "21",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "JAR_FILE",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/mysql.jdbc-5.1.6.jar",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "31498",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "APPD_SCRIPT",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://${darwin.server.ip}:8443/darwin/conf/appd_functions.sh",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "31506",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "JAVA_HOME",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "${['self']['JBossAppServer']['JAVA_HOME']}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "111115",
        "lockVersion": 0,
        "name": "",
        "description": null,

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```

        "key": "dukes_db",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "${['database']['initialize_db_script']['sample_db']}",
    "overrideable": false
}
],
"scripts": []
},
{
    "id": "3031",
    "lockVersion": 1,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "1003",
        "lockVersion": 0,
        "name": "Apache_LB",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/1003",
            "id": "1003",
            "name": "Apache_LB"
        },
    },
    "serviceRef": {
        "uri": null,
        "id": null,
        "name": null
    },
    "preinstalled": false,
    "applicationNodeComponents": []
},
"properties": [
    {
        "propertyDefinition": {
            "id": "27",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "http_node_port",
            "type": "ARRAY",
            "secure": false,
            "required": true
        },
        "value": "${#util.all(\"['appserver']['JBossAppServer']
['JBOSS_PORT_NUMBER']\")}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "28",
            "lockVersion": 0,
            "name": null,

```

```

        "description": null,
        "key": "autogen_sticky_cookie",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "NO",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "29",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_proxy_port",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "8081",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "30",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_node_ips",
        "type": "ARRAY",
        "secure": false,
        "required": true
    },
    "value": "${#util.all(\['appserver']['host']['ip']\")}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "31",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_port",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "80",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "163",
        "lockVersion": 0,

```

```

        "name": null,
        "description": null,
        "key": "appsrv_routes",
        "type": "ARRAY",
        "secure": false,
        "required": true
    },
    "value": "${#util.all(\['appserver']['JBossAppServer']['JVM_ROUTE']\")}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "700",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "service_restart",
        "type": "COMPUTED",
        "secure": false,
        "required": true
    },
    "value": "service httpd restart",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "701",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "service_start",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "service httpd start",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "702",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "service_stop",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "service httpd stop",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "703",

```



```

        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "tomcat_context",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "704",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "ajp_proxy_context",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "705",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "config_httpd_conf",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "/etc/httpd/conf/httpd.conf",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "706",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "config_conf_d",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "/etc/httpd/conf.d",
    "overrideable": false
},
{
    "propertyDefinition": {

```

```

        "id": "707",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "config_static_site",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "/var/www/html",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "708",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "use_ajp",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "NO",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "902",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "global_conf",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf",
    "overrideable": true
},
{
    "propertyDefinition": {
        "id": "1111",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "httpd_dir",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "/etc/httpd",
    "overrideable": false
},
{

```

```

        "propertyDefinition": {
            "id": "43000",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "JAVA_HOME",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "/opt/vmware-jre",
        "overrideable": true
    }
],
"scripts": []
}
],
"applicationVersionRef": {
    "uri": "/darwin/api/2.0/application-version/501",
    "id": "501",
    "name": "Clustered Dukes Bank App v2.1.0"
},
"deploymentProfileNetworkMappings": [
    {
        "id": "485",
        "lockVersion": 0,
        "networkName": "MgmtNetwork",
        "cloudNetworkExtref": {
            "id": "network://vcac-default-network",
            "name": "VCAC-DEFAULT-NETWORK"
        },
        "nodeNames": [
            "load_balancer"
        ]
    },
    {
        "id": "486",
        "lockVersion": 0,
        "networkName": "ServiceNetwork",
        "cloudNetworkExtref": {
            "id": "network://vcac-default-network",
            "name": "VCAC-DEFAULT-NETWORK"
        },
        "nodeNames": [
            "database",
            "appserver",
            "load_balancer"
        ]
    }
],
"deploymentEnvironmentRef": {
    "uri": "/darwin/api/2.0/deployment-environment/1",

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        "id": "1",
        "name": "vCAC-6.0-DE"
    }
}

```

Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Deployment Profile saved successfully.",
      "messageKey": "deployment.profile.save.msg",
      "property": null
    }
  ],
  "result": {
    "id": "454",
    "lockVersion": 2,
    "name": "Deployment Profile for CDB",
    "description": null,
    "lastUpdated": 1384408329994,
    "lastUpdateUser": "admin",
    "created": 1384407985790,
    "createUser": "admin",
    "profileNodes": [
      {
        "id": "1314",
        "lockVersion": 2,
        "node": {
          "id": "2",
          "lockVersion": 7,
          "name": "database",
          "description": "DB TIER NODE",
          "cluster": false,
          "clusterSize": 1,
          "memoryMb": 512,
          "vcpuCount": 1,
          "hostname": "",
          "logicalTemplateVersionRef": {
            "uri": "/darwin/api/2.0/logical-template-version/324",
            "id": "324",
            "name": "CentOS63 32bit v1.0.0"
          },
          "osVersionRef": {
            "uri": "/darwin/api/2.0/operating-system-version/115",
            "id": "115",
            "name": "CentOS32 v6.3.0"
          },
          "serviceNodeComponents": [],
          "applicationNodeComponents": [],
          "disks": [],
          "nics": [
            {

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        "id": "1",
        "lockVersion": 7,
        "name": "NIC0",
        "description": null,
        "networkName": "ServiceNetwork"
    }
]
},
"physicalTemplateRef": {
    "uri": "/darwin/api/2.0/registered-physical-template/1",
    "id": "1",
    "name": "centos63x32"
},
"profileDisks": [],
"properties": [
    {
        "propertyDefinition": {
            "id": "501",
            "lockVersion": 0,
            "name": "vCPU",
            "description": null,
            "key": "vCPU",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "1",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "502",
            "lockVersion": 0,
            "name": "Memory(MB)",
            "description": null,
            "key": "Memory(MB)",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "512",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "503",
            "lockVersion": 0,
            "name": "ClusterSize",
            "description": null,
            "key": "ClusterSize",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "1",

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        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "570",
            "lockVersion": 0,
            "name": "Hostname",
            "description": null,
            "key": "Hostname",
            "type": "STRING",
            "secure": false,
            "required": false
        },
        "value": "",
        "overrideable": false
    }
]
},
{
    "id": "1315",
    "lockVersion": 2,
    "node": {
        "id": "3",
        "lockVersion": 7,
        "name": "appserver",
        "description": "APP SERVER TIER NODE",
        "cluster": true,
        "clusterSize": 1,
        "memoryMb": 2048,
        "vcpuCount": 1,
        "hostname": "",
        "logicalTemplateVersionRef": {
            "uri": "/darwin/api/2.0/logical-template-version/324",
            "id": "324",
            "name": "CentOS63 32bit v1.0.0"
        },
        "osVersionRef": {
            "uri": "/darwin/api/2.0/operating-system-version/115",
            "id": "115",
            "name": "CentOS32 v6.3.0"
        },
        "serviceNodeComponents": [],
        "applicationNodeComponents": [],
        "disks": [],
        "nics": [
            {
                "id": "2",
                "lockVersion": 7,
                "name": "NIC0",
                "description": null,
                "networkName": "ServiceNetwork"
            }
        ]
    },
    "physicalTemplateRef": {

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    "uri": "/darwin/api/2.0/registered-physical-template/1",
    "id": "1",
    "name": "centos63x32"
  },
  "profileDisks": [],
  "properties": [
    {
      "propertyDefinition": {
        "id": "504",
        "lockVersion": 0,
        "name": "vCPU",
        "description": null,
        "key": "vCPU",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "2",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "505",
        "lockVersion": 0,
        "name": "Memory(MB)",
        "description": null,
        "key": "Memory(MB)",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "2048",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "506",
        "lockVersion": 0,
        "name": "ClusterSize",
        "description": null,
        "key": "ClusterSize",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "3",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "571",
        "lockVersion": 0,
        "name": "Hostname",
        "description": null,
        "key": "Hostname",

```

```

        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": false
}
]
},
{
    "id": "1316",
    "lockVersion": 2,
    "node": {
        "id": "60102",
        "lockVersion": 4,
        "name": "load_balancer",
        "description": "WEB SERVER TIER NODE",
        "cluster": false,
        "clusterSize": 1,
        "memoryMb": 512,
        "vcpuCount": 1,
        "hostname": "",
        "logicalTemplateVersionRef": {
            "uri": "/darwin/api/2.0/logical-template-version/324",
            "id": "324",
            "name": "CentOS63 32bit v1.0.0"
        },
        "osVersionRef": {
            "uri": "/darwin/api/2.0/operating-system-version/115",
            "id": "115",
            "name": "CentOS32 v6.3.0"
        },
        "serviceNodeComponents": [],
        "applicationNodeComponents": [],
        "disks": [],
        "nics": [
            {
                "id": "60114",
                "lockVersion": 1,
                "name": "NIC1",
                "description": null,
                "networkName": "MgmtNetwork"
            },
            {
                "id": "60108",
                "lockVersion": 3,
                "name": "NIC0",
                "description": null,
                "networkName": "ServiceNetwork"
            }
        ]
    },
    "physicalTemplateRef": {
        "uri": "/darwin/api/2.0/registered-physical-template/1",
        "id": "1",

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    "name": "centos63x32"
  },
  "profileDisks": [],
  "properties": [
    {
      "propertyDefinition": {
        "id": "171446",
        "lockVersion": 0,
        "name": "Memory(MB)",
        "description": null,
        "key": "Memory(MB)",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "512",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "171447",
        "lockVersion": 0,
        "name": "vCPU",
        "description": null,
        "key": "vCPU",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "1",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "171448",
        "lockVersion": 0,
        "name": "ClusterSize",
        "description": null,
        "key": "ClusterSize",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "1",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "171449",
        "lockVersion": 0,
        "name": "Hostname",
        "description": null,
        "key": "Hostname",
        "type": "STRING",
        "secure": false,

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        "required": false
    },
    "value": "",
    "overrideable": false
}
]
},
"profileNodeComponents": [
{
    "id": "3027",
    "lockVersion": 2,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "1001",
        "lockVersion": 0,
        "name": "MySql",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/1001",
            "id": "1001",
            "name": "MySql"
        },
    },
    "serviceRef": {
        "uri": null,
        "id": null,
        "name": null
    },
    "preinstalled": false,
    "applicationNodeComponents": []
},
"properties": [
{
    "propertyDefinition": {
        "id": "3",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "db_port",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "3306",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "288",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "max_allowed_packet",
        "type": "STRING",

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        "secure": false,
        "required": true
    },
    "value": "1024M",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "291",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "Install_Path",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "292",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "db_root_password",
        "type": "STRING",
        "secure": true,
        "required": true
    },
    "value":
"ENC{1BWau1KTDtYbAeZbWuYqqlefanZeDrjGIwZbXYyC78rfubnHVY1YJlvLsqzaeeyp}CNE",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "298",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "db_root_username",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "root",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "900",
        "lockVersion": 0,
        "name": null,
        "description": null,

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```

        "key": "global_conf",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://${darwin.server.ip}:
8443/darwin/conf/darwin_global.conf",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "43010",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JAVA_HOME",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "/opt/vmware-jre",
    "overrideable": false
}
],
"scripts": []
},
{
    "id": "3028",
    "lockVersion": 2,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "2000",
        "lockVersion": 0,
        "name": "initialize_db_script",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/2000",
            "id": "2000",
            "name": "initialize_db_script"
        }
    }
},
"properties": [
    {
        "propertyDefinition": {
            "id": "26",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "initialize_db_script",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://${darwin.content.server.ip}/artifacts/app-

```

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components/dukesbank/create_bank_db.sql",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "40",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "db_username",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "dukes_admin",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "41",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "db_password",
      "type": "STRING",
      "secure": true,
      "required": true
    },
    "value": "ENC{umXy9VOJ0FPbaIuUgFE3JA/snipG4YRCqsmllWwhC58cV
+3IQEK5RYKLLXNJ2pDiS}CNE",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "290",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "init_db_password",
      "type": "STRING",
      "secure": true,
      "required": true
    },
    "value": "${['database']['MySQL']['db_root_password']}",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "296",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "init_db_username",
      "type": "STRING",
      "secure": false,

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```

        "required": true
    },
    "value": "${['database']['MySQL']['db_root_username']}",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "299",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "sample_db",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "dukes_db",
    "overrideable": false
}
],
"scripts": []
},
{
    "id": "3029",
    "lockVersion": 2,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "1002",
        "lockVersion": 0,
        "name": "JBossAppServer",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/1002",
            "id": "1002",
            "name": "JBossAppServer"
        }
    },
    "serviceRef": {
        "uri": null,
        "id": null,
        "name": null
    },
    "preinstalled": false,
    "applicationNodeComponents": []
},
"properties": [
    {
        "propertyDefinition": {
            "id": "9",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "cheetah_install_script",
            "type": "CONTENT",
            "secure": false,

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        "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/cheetah_install.sh",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "10",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "jboss_install_script",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/install.sh",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "11",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JBOSS_JMX_CONSOLE_USERS_TEMPLATE",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/jmx-console-users.properties.tpl",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "14",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JBOSS_NAME_AND_VERSION",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "jboss-5.1.0.GA",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "18",
        "lockVersion": 0,
        "name": null,

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```

        "description": null,
        "key": "JBOSS_JMX_USER",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "admin",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "19",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "cheetah_tgz_url",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/cheetah-2.4.4.tar.gz",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "20",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "jboss_configure_script",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/configure.sh",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "22",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JBOSS_JMX_PWD",
        "type": "STRING",
        "secure": true,
        "required": true
    },
    "value": "ENC{dAVB2/F1LAF0iCi4563nizo1ub/vJhJ0Frpm1YoHyGSQBLIZ0Q3c6ZVM2Bm
+w0S1}CNE",
    "overrideable": false
},
{

```



```

    "propertyDefinition": {
      "id": "23",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "zip_url",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/jboss-5.1.0.GA.zip",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "24",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "JBOSS_INSTANCE_NAME",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "default",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "25",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "Install_Path",
      "type": "COMPUTED",
      "secure": false,
      "required": false
    },
    "value": "",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "38",
      "lockVersion": 0,
      "name": null,
      "description": null,
      "key": "JBOSS_BOOTRC_TEMPLATE",
      "type": "CONTENT",
      "secure": false,
      "required": true
    },
    "value": "http://$
{darwin.content.server.ip}/artifacts/services/jboss/boot.rc.tpl",

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        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "162",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "JVM_ROUTE",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "${['self']['host']['node_array_index']}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "901",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "global_conf",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "https://${darwin.server.ip}:
8443/darwin/conf/darwin_global.conf",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "2265",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "JBOSS_PORT_NUMBER",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "8080",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "31505",
            "lockVersion": 0,
            "name": null,
            "description": null,
            "key": "JAVA_HOME",
            "type": "STRING",
            "secure": false,
            "required": true
        }
    }

```

```

        },
        "value": "/opt/vmware-jre",
        "overrideable": false
    }
],
"scripts": []
},
{
    "id": "3030",
    "lockVersion": 2,
    "name": null,
    "description": null,
    "nodeComponent": {
        "id": "3000",
        "lockVersion": 0,
        "name": "Dukes_Bank_App",
        "description": null,
        "nodeComponentDetailsRef": {
            "uri": "/darwin/api/2.0/node-component-details/3000",
            "id": "3000",
            "name": "Dukes_Bank_App"
        }
    }
},
"properties": [
    {
        "propertyDefinition": {
            "id": "4",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "jboss_deploy_datasource_script",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/deploy_datasource.sh",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "5",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "jboss_deploy_component_script",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/deploy_component.sh",
        "overrideable": false
    },
    {

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        "propertyDefinition": {
            "id": "6",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "db_port",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "${['database']['MySQL']['db_port']}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "7",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "db_host",
            "type": "STRING",
            "secure": false,
            "required": true
        },
        "value": "${['database']['host']['ip']}",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "12",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "JBoss_DATASOURCE_TEMPLATE",
            "type": "CONTENT",
            "secure": false,
            "required": true
        },
        "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/jboss-ds.xml.tmpl",
        "overrideable": false
    },
    {
        "propertyDefinition": {
            "id": "13",
            "lockVersion": 0,
            "name": "",
            "description": null,
            "key": "db_password",
            "type": "STRING",
            "secure": true,
            "required": true
        },
        "value": "${['database']['initialize_db_script']['db_password']}",
        "overrideable": false
    }

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    },
    {
      "propertyDefinition": {
        "id": "16",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "db_user",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "${['database']['initialize_db_script']['db_username']}",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "17",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "EAR_FILE",
        "type": "CONTENT",
        "secure": false,
        "required": true
      },
      "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/dukesbank-2b.ear",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "21",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "JAR_FILE",
        "type": "CONTENT",
        "secure": false,
        "required": true
      },
      "value": "http://${darwin.content.server.ip}/artifacts/app-
components/dukesbank/mysql.jdbc-5.1.6.jar",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "31498",
        "lockVersion": 0,
        "name": "",
        "description": null,
        "key": "APPD_SCRIPT",
        "type": "CONTENT",
        "secure": false,
        "required": true
      }
    }
  ]
}

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```

    },
    "value": "https://${darwin.server.ip}:
8443/darwin/conf/appd_functions.sh",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "31506",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "JAVA_HOME",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "${['self']['JBossAppServer']['JAVA_HOME']}",
    "overrideable": false
  },
  {
    "propertyDefinition": {
      "id": "111115",
      "lockVersion": 0,
      "name": "",
      "description": null,
      "key": "dukes_db",
      "type": "STRING",
      "secure": false,
      "required": true
    },
    "value": "${['database']['initialize_db_script']['sample_db']}",
    "overrideable": false
  }
],
"scripts": []
},
{
  "id": "3031",
  "lockVersion": 2,
  "name": null,
  "description": null,
  "nodeComponent": {
    "id": "1003",
    "lockVersion": 0,
    "name": "Apache_LB",
    "description": null,
    "nodeComponentDetailsRef": {
      "uri": "/darwin/api/2.0/node-component-details/1003",
      "id": "1003",
      "name": "Apache_LB"
    }
  },
  "serviceRef": {
    "uri": null,
    "id": null,
    "name": null
  }
}

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    },
    "preinstalled": false,
    "applicationNodeComponents": []
  },
  "properties": [
    {
      "propertyDefinition": {
        "id": "27",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_node_port",
        "type": "ARRAY",
        "secure": false,
        "required": true
      },
      "value": "${#util.all(\['appserver']['JBossAppServer']
['JBOSS_PORT_NUMBER']\")}",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "28",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "autogen_sticky_cookie",
        "type": "STRING",
        "secure": false,
        "required": false
      },
      "value": "NO",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "29",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_proxy_port",
        "type": "STRING",
        "secure": false,
        "required": true
      },
      "value": "8081",
      "overrideable": false
    },
    {
      "propertyDefinition": {
        "id": "30",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_node_ips",

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```

        "type": "ARRAY",
        "secure": false,
        "required": true
    },
    "value": "${#util.all(\['appserver']['host']['ip']\`)"},
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "31",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "http_port",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "80",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "163",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "appsrv_routes",
        "type": "ARRAY",
        "secure": false,
        "required": true
    },
    "value": "${#util.all(\['appserver']['JBossAppServer']
['JVM_ROUTE']\`)"},
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "700",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "service_restart",
        "type": "COMPUTED",
        "secure": false,
        "required": true
    },
    "value": "service httpd restart",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "701",
        "lockVersion": 0,
        "name": null,

```



```

        "description": null,
        "key": "service_start",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "service httpd start",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "702",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "service_stop",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "service httpd stop",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "703",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "tomcat_context",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "704",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "ajp_proxy_context",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "705",
        "lockVersion": 0,

```

```

        "name": null,
        "description": null,
        "key": "config_httpd_conf",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "/etc/httpd/conf/httpd.conf",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "706",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "config_conf_d",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "/etc/httpd/conf.d",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "707",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "config_static_site",
        "type": "COMPUTED",
        "secure": false,
        "required": false
    },
    "value": "/var/www/html",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "708",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "use_ajp",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "NO",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "902",

```

```

        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "global_conf",
        "type": "CONTENT",
        "secure": false,
        "required": true
    },
    "value": "https://${darwin.server.ip}:
8443/darwin/conf/darwin_global.conf",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "1111",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "httpd_dir",
        "type": "STRING",
        "secure": false,
        "required": false
    },
    "value": "/etc/httpd",
    "overrideable": false
},
{
    "propertyDefinition": {
        "id": "43000",
        "lockVersion": 0,
        "name": null,
        "description": null,
        "key": "JAVA_HOME",
        "type": "STRING",
        "secure": false,
        "required": true
    },
    "value": "/opt/vmware-jre",
    "overrideable": false
}
],
"scripts": []
}
],
"applicationVersionRef": {
    "uri": "/darwin/api/2.0/application-version/501",
    "id": "501",
    "name": "Clustered Dukes Bank App v2.1.0"
},
"deploymentProfileNetworkMappings": [
    {
        "id": "485",
        "lockVersion": 1,
        "networkName": "MgmtNetwork",
        "cloudNetworkExtref": {

```

```

        "id": "network://vcac-default-network",
        "name": "VCAC-DEFAULT-NETWORK"
    },
    "nodeNames": [
        "load_balancer"
    ]
},
{
    "id": "486",
    "lockVersion": 1,
    "networkName": "ServiceNetwork",
    "cloudNetworkExtref": {
        "id": "network://vcac-default-network",
        "name": "VCAC-DEFAULT-NETWORK"
    },
    "nodeNames": [
        "database",
        "appserver",
        "load_balancer"
    ]
}
],
"deploymentEnvironmentRef": {
    "uri": "/darwin/api/2.0/deployment-environment/1",
    "id": "1",
    "name": "vCAC-6.0-DE"
}
}
}

```

Delete Deployment Profile

Removes the existing deployment profile.

The user account with the **ROLE_DEPLOYER** deployer role or **SYSTEM_ADMIN** system admin role can access this API.

HTTP Method

DELETE

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile/DeploymentProfileID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile/1001

Response

```

{
  "errors": false,
  "messageList": [
    {

```

```
    "messageType": "INFO",  
    "message": "Successfully deleted Deployment Profile.",  
    "messageKey": "delete.msg",  
    "property": null  
  }  
]  
}
```


REST APIs for Deployment

You can view a list of application deployments and the deployment status of an application deployment, or retrieve node details of a deployment.

Get Deployments

Retrieves a paginated list of application deployments.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment?page=Page&page-size=PageSize`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment?page=0&page-size=1`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 5,
  "results": [
    {
      "id": "6",
      "lockVersion": 5,
      "name": "appd-Clustered Dukes Bank App-2.1.0-admin-6-b452d90c-b72e-4737-8f45-3c7540cf932c",
      "description": null,
      "lastUpdated": 1378856459664,
      "lastUpdateUser": "SYSTEM",
      "created": 1378856410279,
      "createUser": "admin",
      "deploymentUri": "https://192.0.2.255/api/vApp/vapp-cabdfca3-108d-4571-b900-bce6d5e98071",
      "stateType": "DEPLOYMENT_ACTIVE",
      "statusMessage": "Deployment Success",
    }
  ]
}
```

```

    "lastDeploymentProfileRef": {
      "uri": "/darwin/api/2.0/deployment-profile/12",
      "id": "12",
      "name": "DP"
    },
    "applicationVersionRef": {
      "uri": "/darwin/api/2.0/application-version/60070",
      "id": "60070",
      "name": "Clustered Dukes Bank App v2.1.0"
    },
    "deploymentTaskCount": 1
  }
]
}
}

```

Get Deployment Details

Retrieves an application deployment status based on the deployment ID.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/DeploymentID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/5

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "6",
    "lockVersion": 5,
    "name": "appd-Clustered Dukes Bank App-2.1.0-admin-6-b452d90c-b72e-4737-8f45-3c7540cf932c",
    "description": null,
    "lastUpdated": 1378856459664,
    "lastUpdateUser": "SYSTEM",
    "created": 1378856410279,
    "createUser": "admin",
    "deploymentUri": " https://192.0.2.255/api/vApp/vapp-cabdfca3-108d-4571-b900-bce6d5e98071",
    "stateType": "DEPLOYMENT_ACTIVE",
    "statusMessage": "Deployment Success",
    "lastDeploymentProfileRef": {
      "uri": "/darwin/api/2.0/deployment-profile/12",
      "id": "12",
      "name": "DP"
    }
  }
}

```



```
    },  
    "applicationVersionRef": {  
      "uri": "/darwin/api/2.0/application-version/60070",  
      "id": "60070",  
      "name": "Clustered Dukes Bank App v2.1.0"  
    },  
    "deploymentTaskCount": 1  
  }  
}
```


REST APIs for Scheduling a Deployment

15

You can specify the deployment profile ID and application properties to begin a deployment process. Provide a deployment ID to view a list of the available properties that you can configure for a deployment.

Get Scheduled Deployment Task

Retrieves the scheduled deployment task.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-task/DeploymentID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-task/10`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "10",
    "lockVersion": 63,
    "name": null,
    "description": null,
    "lastUpdated": 1378856459660,
    "lastUpdateUser": "SYSTEM",
    "created": 1378856410491,
    "createUser": "admin",
    "scheduled": 1378856408373,
    "startTime": 1378856417820,
    "endTime": 1378856459660,
    "runId": "6",
    "updateType": null,
  }
}
```

```

"stateType": "TASK_SUCCESS",
"taskType": "PROVISIONING_TASK",
"messages": [
  "Deployment completed successfully."
],
"runStateType": "COMPLETED",
"deploymentRef": {
  "uri": "/darwin/api/2.0/deployment/6",
  "id": "6",
  "name": "appd-Clustered Dukes Bank App-2.1.0-admin-6-b452d90c-b72e-4737-8f45-3c7540cf932c"
},
"deploymentNodes": [
  {
    "id": "16",
    "lockVersion": 0,
    "deploymentNodeInstances": [
      {
        "id": "16",
        "lockVersion": 0,
        "name": "load_balancer",
        "description": null,
        "lastUpdated": null,
        "lastUpdateUser": null,
        "created": null,
        "createUser": null,
        "runStateType": "VMSTARTED",
        "instanceIndex": -1,
        "hostname": "load-b-NINZZ3FG",
        "nodeInstanceUri": " https://192.0.2.255/api/vApp/vm-8da6b54e-db75-484b-ae61-
aa0cc7b4b735",
        "queueName": "appd-agent-0289911e-f67b-4ab8-9e53-f02095ff48d3",
        "deprovisioned": false,
        "deploymentNodeTasks": [
          {
            "id": "82",
            "lockVersion": 10,
            "name": "agent_bootstrap",
            "description": null,
            "lastUpdated": 1378856440642,
            "lastUpdateUser": "SYSTEM",
            "created": 1378856418500,
            "createUser": "SYSTEM",
            "componentIdentifier": "agent_bootstrap",
            "nodeIdentifier": "load_balancer",
            "runStateType": "COMPLETED",
            "runPhaseType": "BOOTSTRAP",
            "startTime": 1378856433235,
            "endTime": 1378856440642,
            "elapsedTime": 7407,
            "inputProperties": [],
            "outputProperties": [],
            "logMessage": "processing input properties\nexecuting the script: [...]\n",
            "logDescription": "stdout and stderr log available on VM at [...]"
          }
        ],
        "logMessage": "processing input properties\nexecuting the script: [...]\n",
        "logDescription": "stdout and stderr log available on VM at [...]"
      }
    ]
  }
],
[...]
```

```

    ],
    "networkConnections": [
      {
        "id": "18",
        "lockVersion": 0,
        "nicName": "NIC0",
        "networkName": "ServiceNetwork",
        "ipAddress": "127.0.0.1",
        "ipAddressType": "ASSIGNED",
        "cloudNetworkName": "NetworkRight",
        "cloudNetworkUri": "
https://192.0.2.255/api/network/94978447-182e-4153-893f-9005cdc133c5 ",
        "macAddress": ""
      },
      [...]
    ],
    "disks": []
  }
]
},
[...],
]
}
}

```

Get Deployment Task

Retrieves a deployment task that you can specify for a deployment when a deployment profile ID is provided.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/DeploymentID/deployment-task`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/6/deployment-task`

Response

```

{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "10",
    "lockVersion": 63,
    "name": null,
    "description": null,
    "lastUpdated": 1378856459660,
  }
}

```

```

    "lastUpdateUser": "SYSTEM",
    "created": 1378856410491,
    "createUser": "admin",
    "scheduled": 1378856408373,
    "startTime": 1378856417820,
    "endTime": 1378856459660,
    "runId": "6",
    "updateType": null,
    "stateType": "TASK_SUCCESS",
    "taskType": "PROVISIONING_TASK",
    "messages": [
      "Deployment completed successfully."
    ],
    "runStateType": "COMPLETED",
    "deploymentRef": {
      "uri": "/darwin/api/2.0/deployment/6",
      "id": "6",
      "name": "appd-Clustered Dukes Bank App-2.1.0-admin-6-b452d90c-b72e-4737-8f45-3c7540cf932c"
    },
    "deploymentNodes": [
      {
        "id": "16",
        "lockVersion": 0,
        "deploymentNodeInstances": [
          {
            "id": "16",
            "lockVersion": 0,
            "name": "load_balancer",
            "description": null,
            "lastUpdated": null,
            "lastUpdateUser": null,
            "created": null,
            "createUser": null,
            "runStateType": "VMSTARTED",
            "instanceIndex": -1,
            "hostname": "load-b-NINZZ3FG",
            "nodeInstanceUri": " https://192.0.2.255/api/vApp/vm-8da6b54e-db75-484b-ae61-aa0cc7b4b735",
            "queueName": "appd-agent-0289911e-f67b-4ab8-9e53-f02095ff48d3",
            "deprovisioned": false,
            "deploymentNodeTasks": [
              {
                "id": "82",
                "lockVersion": 10,
                "name": "agent_bootstrap",
                "description": null,
                "lastUpdated": 1378856440642,
                "lastUpdateUser": "SYSTEM",
                "created": 1378856418500,
                "createUser": "SYSTEM",
                "componentIdentifier": "agent_bootstrap",
                "nodeIdentifier": "load_balancer",
                "runStateType": "COMPLETED",
                "runPhaseType": "BOOTSTRAP",
                "startTime": 1378856433235,

```

```

        "endTime": 1378856440642,
        "elapsedTime": 7407,
        "inputProperties": [],
        "outputProperties": [],
        "logMessage": "processing input properties\nexecuting the script: [...]\n",
        "logDescription": "stdout and stderr log available on VM at [...]"
    },
    [...],
    ],
    "networkConnections": [
        {
            "id": "18",
            "lockVersion": 0,
            "nicName": "NIC0",
            "networkName": "ServiceNetwork",
            "ipAddress": "127.0.0.1",
            "ipAddressType": "ASSIGNED",
            "cloudNetworkName": "NetworkRight",
            "cloudNetworkUri": "
https://192.0.2.255/api/network/94978447-182e-4153-893f-9005cdc133c5 ",
            "macAddress": ""
        },
        [...],
    ],
    "disks": []
    }
    ],
    },
    [...],
    ]
    }
    }
}

```

Get Failed Deployment Tasks

Retrieves the last failed deployment tasks for a deployment when a deployment task ID is provided.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/DeploymentID/failed-deployment-task`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/5/failed-deployment-task`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "9",
    "lockVersion": 43,
    "name": null,
    "description": null,
    "lastUpdated": 1378856464867,
    "lastUpdateUser": "SYSTEM",
    "created": 1378855370104,
    "createUser": "admin",
    "scheduled": 1378855369244,
    "startTime": 1378855376879,
    "endTime": 1378856464867,
    "runId": "5",
    "updateType": null,
    "stateType": "TASK_FAILED",
    "taskType": "PROVISIONING_TASK",
    "messages": [
      "Run failed due to failure of task (load_balancer, agent_bootstrap). Agent logs are on the
node load_balancer in logs directory under /opt/vmware-appdirector/agent."
    ],
    "runStateType": "FAILED",
    "deploymentRef": {
      "uri": "/darwin/api/2.0/deployment/5",
      "id": "5",
      "name": "appd-Clustered Dukes Bank App-2.1.0-admin-5-bc7d2134-813d-491d-908b-3ab97aa9ab39"
    }
  },
  [...]
}
```

Schedule a Deployment

Starts a deployment when a deployment profile ID and required application properties are provided. Returns the deployment task ID.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile/DeploymentProfileID/action/deploy`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment-profile/2/action/deploy`

Request

```
{
  "node": [
    {
      "name": "Database",
      "nodeComponent": [
        {
          "name": "SQL_Server_2008",
          "property": [
            {
              "key": "INSTANCENAME",
              "value": "db100"
            }
          ]
        }
      ]
    }
  ]
}
```

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Deployment scheduled successfully.",
      "messageKey": "deployment.scheduled.msg",
      "property": null
    }
  ],
  "result": {
    "id": "16",
    "lockVersion": 1,
    "name": null,
    "description": null,
    "lastUpdated": 1379024432475,
    "lastUpdateUser": "admin",
    "created": 1379024432472,
    "createUser": "admin",
    "scheduled": 1379024432336,
    "startTime": null,
    "endTime": null,
    "runId": null,
    "updateType": null,
    "stateType": "TASK_SCHEDULED",
    "taskType": "PROVISIONING_TASK",
    "messages": [],
    "runStateType": "NOT_STARTED",
    "deploymentRef": {
      "uri": "/darwin/api/2.0/deployment/10",
      "id": "10",

```

```
    "name": "appd-Clustered DotShoppingCart-1.0.0-admin-10-8f551d93-1cb1-4b47-854a-  
f65595177f41"  
  },  
  "deploymentNodes": []  
}  
}
```

REST APIs for Publishing Deployment Profiles

16

You can publish and unpublish deployment profiles of an application to the vCloud Automation Center service catalog.

Publish Deployment Profiles

Publishes a deployment profile of an application to the vCloud Automation Center service catalog.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/vcac-catalog-publish`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/vcac-catalog-publish`

Request

```
{
  "name":"DUKE'S BANK DP vCAC - IT",
  "description":"to ITests-vCAC-cam-appdvac DE on cam-appdvac CP.",
  "itemId":"325",
  "itemType":"DEPLOYMENT_PROFILE"
}
```

Response

```
{
  "errors":false,
  "messageList":[
    {
      "messageType":"INFO",
      "message":"Successfully published deployment profile 'ac' to vCAC.",
      "messageKey":"csp.catalogitem.deployment_profile.publish.success.msg",
      "property":null
    }
  ]
}
```

```

    }
  ],
  "result":{
    "id":"appd-dp-325",
    "name":"DUKE'S BANK DP vCAC - IT",
    "description":"to ITests-vCAC-cam-appdvcac DE on cam-appdvcac CP.\n[Published: Wed Sep 11
12:48:46 PDT 2013]",
    "status":"PUBLISHED",
    "type":"DEPLOYMENT_PROFILE",
    "catalogItemId":"test.appd.csp.DEPLOYMENT_PROFILE",
    "subtenantId":"2ee360e1-762e-4df9-8775-c26e3cf281d4"
  }
}

```

Get Published Deployment Profile Details

Verifies that the status of the deployment profile indicates Published in the vCloud Automation Center service catalog based on the deployment profile ID. If the deployment profile is not published, the status indicates Not Published.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/vcac-item-status/DeploymentProfileID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/vcac-item-status/325`

Response

```

{
  "errors":false,
  "messageList":[
  ],
  "result":{
    "id":"appd-dp-325",
    "name":"ac",
    "description":"ac-desc",
    "status":"RETIRED",
    "type":"DEPLOYMENT_PROFILE",
    "catalogItemId":null,
    "subtenantId":null
  }
}

```

Unpublish Deployment Profiles

Removes a published deployment profile of an application from the vCloud Automation Center service catalog.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/vcac-catalog-unpublish`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/vcac-catalog-unpublish`

Request

```
{
  "name": "DUKE'S BANK DP vCAC - IT",
  "description": "to ITests-vCAC-cam-appdvcac DE on cam-appdvcac CP.",
  "itemId": "325",
  "itemType": "DEPLOYMENT_PROFILE"
}
```

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Successfully unpublished catalog item from vCAC.",
      "messageKey": "csp.catalogitem.unpublish.success.msg",
      "property": null
    }
  ]
}
```


REST APIs for Update Profile

You can view update profiles and update profile types of a deployed application. You can also use the APIs to create and delete update profiles, override update profile property values, schedule scale-in and scale-out update process, view the last failed update process, and rollback an update process.

Get Update Profiles

Retrieves a paginated list of update profiles for a deployment.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile?deployment-id=DeploymentID&page=Page&page-size=PageSize`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile?deployment-id=19&page=0&page-size=10`

Response

```
{
  "errors": false,
  "messageList": [],
  "count": 2,
  "results": [
    {
      "updateProfileRefs": [
        {
          "updateProfileRef": {
            "id": "19",
            "name": "increase8",
            "uri": "/darwin/api/2.0/update-profile/19"
          },
          "updateType": "SCALE_OUT"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "updateProfileRef": {
        "id": "21",
        "name": "scalein1",
        "uri": "/darwin/api/2.0/update-profile/21"
      },
      "updateType": "SCALE_IN"
    }
  ]
}
]
}

```

Get Update Profile by Update Type

Retrieves a paginated list of update profiles for a deployment and update type.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile?deployment-id=DeploymentID&update-type=UpdateType&page=Page&page-size=PageSize`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile?deployment-id=19&update-type=SCALE_OUT&page=0&page-size=10`

Response

```

{
  "errors": false,
  "messageList": [],
  "count": 1,
  "results": [
    {
      "updateProfileRefs": [
        {
          "updateProfileRef": {
            "id": "19",
            "name": "increase8",
            "uri": "/darwin/api/2.0/update-profile/19"
          },
          "update-type": "SCALE_OUT"
        }
      ]
    }
  ]
}

```


Get Update Profile ID

Retrieves an update profile for a deployment based on the provided update profile identification.

All of the vCloud Application Director predefined user accounts and associated roles can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/UpdateProfileID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/2`

Response

```
{
  "errors": false,
  "messageList": [],
  "result": {
    "id": "19",
    "lockVersion": 1,
    "name": "increase8",
    "description": "increase8 Description",
    "created": "2013-08-01T17:22:34+05:30",
    "lastUpdated": "2013-08-01T17:22:34+05:30",
    "lastUpdateUser": "admin",
    "createUser": "admin",
    "deploymentRef": {
      "id": "8",
      "name": "appd-Linux Smoke 01-1.0.0-admin-8-3ab14c68-5ac1-4357-b403-c04603c12b14",
      "uri": "/darwin/api/2.0/deployment/8"
    },
    "updateType": "SCALE_OUT",
    "configUpdateProperties": null,
    "scaleoutPropertiesInfo": {
      "clusterNode": [
        {
          "name": "Clustered_Producer",
          "currentClusterSize": 3,
          "nodeInstanceNames": [
            "SpringTravel_0_",
            "SpringTravel_1_",
            "SpringTravel_2_"
          ]
        }
      ]
    }
  }
}
```

Create an Update Profile

Creates an update profile based on the name provided in the request section and schedules its execution. If an update profile name is not provided, the designated name appears in the response section with the associated identification. If the update profile name already exists, an error message appears.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile`

Request

```
{
  "deploymentId": 2,
  "updateType": "SCALE_OUT",
  "name": "scaleOutTest",
  "description" :
  "scaleOutTest Desc",
  "scaleoutProperties": {
    "clusterNode": [
      {
        "name": "SpringTravel",
        "scaleOutBy": 1
      }
    ]
  }
}
```

Response

```
{
  "errors": false,
  "message-list": [
    {
      "message-type": "INFO",
      "message": "Deployment update scheduled successfully.",
      "message-key": "deployment.update.scheduled.msg"
    }
  ]
  "result": {
    "id": "1",
    "lockVersion": 0,
    "name": "scaleOutTest",
    "description" : "scaleOutTest Desc",
  }
}
```

```

    "deploymentTaskRef" : {
      "uri": "/darwin/api/2.0/deployment-task/76",
      "id": "76",
      "name": "appd-Spring Travel-1.0.0-admin-14-759a3d26-0ad5-4e58-a3d2-6f34214e3637"
    }
  }
}

```

Override an Update Profile

Overrides property values in an update profile based on the provided update profile identification and schedules its execution. The request body contains the changes to apply to the existing update profile with the given ID.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/UpdateProfileID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/2

Request

```

{
  "lockVersion": 1,
  "updateType": "SCALE_OUT",
  "scaleoutProperties": {
    "clusterNode": [
      {
        "name": "SpringTravel",
        "scaleOutBy": 1
      }
    ]
  }
}

```

Response

```

{
  "errors": false,
  "message-list": [
    {
      "message-type": "INFO",
      "message": "Deployment update scheduled successfully.",
      "message-key": "deployment.update.scheduled.msg"
    }
  ]
  "result": {

```

```

    "id": "1",
    "lockVersion": 0,
    "name": "scaleOutTest",
    "description" : "scaleOutTest Desc",
    "deploymentTaskRef": {
      "uri": "/darwin/api/2.0/deployment-task/76",
      "id": "76",
      "name": "appd-Spring Travel-1.0.0-admin-14-759a3d26-0ad5-4e58-a3d2-6f34214e3637"
    }
  }
}

```

Update and Schedule a Scale In Deployment

Schedules an update process to scale in a deployed application based on the modified cluster size of a node in the update profile.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/UpdateProfileID

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/15

Request

```

{
  "lockVersion": 1,
  "updateType": "SCALE_IN",
  "name": "ExternalScaleInTest1",
  "description": "ExternalScaleInTest1",
  "scaleinProperties": {
    "clusterNode": [
      {
        "name": "SpringTravel",
        "nodeInstanceNames": [
          "SpringTravel_4_",
          "SpringTravel_2_"
        ],
        "scaleInBy": 2
      }
    ]
  }
}

```

Response

```
{
  "errors": false,
  "message-list": [
    {
      "message-type": "INFO",
      "message": "Deployment update scheduled successfully.",
      "message-key": "deployment.update.scheduled.msg"
    }
  ]
  "result": {
    "id": "15",
    "lockVersion": 1,
    "name": "ExternalScaleInTest1",
    "description": "ExternalScaleInTest1 description",
    "deploymentTaskRef":
      {
        "uri": "/darwin/api/2.0/deployment-task/76",
        "id": "76",
        "name": "appd-Spring Travel-1.0.0-admin-14-759a3d26-0ad5-4e58-a3d2-6f34214e3637"
      }
  }
}
```

Delete an Update Profile

Deletes an update profile based on the provided identification.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

DELETE

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/UpdateProfileID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/2`

Response

```
{
  "errors": false,
  "message-list": [
    {
      "message-type": "INFO",
      "message": "Successfully deleted UpdateProfile.",
    }
  ]
}
```

```

        "message-key": "delete.msg"
    }
]
}

```

Get Last Failed Update Process

Retrieves the last failed update process.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

GET

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/DeploymentID/failed-deployment-task`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/1/failed-deployment-task`

Response

If a last failed deployment task is not available, the following response appears.

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "No latest failed update deployment found.",
      "messageKey":
"valid.failed.updateProfile.deployment.not.found",
    }
  ],
  "result": null
}

```

Rollback a Last Update Process

Performs a rollback on a failed or last successful update process based on the provided deployment identification.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile/`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/2.0/update-profile
```

Request

```
{
  "deployment-id": 2,
  "operation": "ROLLBACK"
}
```

Response

```
{
  "errors": false,
  "message-list": [
    {
      "message-type": "INFO",
      "message": "Deployment rollback scheduled successfully.",
      "message-key": "deployment.rollback.scheduled.msg"
    }
  ],
  "result": {
    "deployment-task-ref": {
      "@type": "Reference",
      "id": "8",
      "uri": "/darwin/api/2.0/deployment-task/8"
    }
  }
}
```


REST APIs for Managing Deployments

18

You can tear down the associated virtual machines from the cloud environment. Delete the record of a deployment from vCloud Application Director.

Tear Down Deployment

Removes provisioning for the vCloud Director vApp and associated virtual machines, vCloud Automation Center virtual machine and the associated virtual machine in vCenter Server , or Amazon EC2 instances and deletes them from the cloud environment. Provides task ID after the teardown process is complete.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/DeploymentID/teardown`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/6/teardown`

Request

The request body does not contain input for the teardown process.

Response

```
{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Deployment teardown scheduled successfully.",
      "messageKey": "deployment.teardown.scheduled.msg",
      "property": null
    }
  ],
  "result": {
```

```

    "id": "11",
    "lockVersion": 1,
    "name": null,
    "description": null,
    "lastUpdated": 1378935530429,
    "lastUpdateUser": "admin",
    "created": 1378935530425,
    "createUser": "admin",
    "scheduled": 1378935530036,
    "startTime": null,
    "endTime": null,
    "runId": null,
    "updateType": null,
    "stateType": "TASK_SCHEDULED",
    "taskType": "TEARDOWN_TASK",
    "messages": [],
    "runStateType": null,
    "deploymentRef": {
      "uri": "/darwin/api/2.0/deployment/6",
      "id": "6",
      "name": "appd-Clustered Dukes Bank App-2.1.0-admin-6-b452d90c-b72e-4737-8f45-3c7540cf932c"
    },
    "deploymentNodes": []
  }
}

```

Delete Deployment

Deletes the details of a particular deployment from vCloud Application Director.

The user account with the **ROLE_DEPLOYER** deployer role can access this API.

HTTP Method

DELETE

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/DeploymentID`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/2.0/deployment/5`

Response

```

{
  "errors": false,
  "messageList": [
    {
      "messageType": "INFO",
      "message": "Successfully deleted Deployment.",
      "messageKey": "delete.msg",
    }
  ]
}

```

```
    "property": null  
  }  
]  
}
```


REST APIs to Export and Import Application Packages

19

Export an application, service, or task package to import to a different vCloud Application Director appliance.

You can also export a package using the vCloud Application Director CLI. See the *Using vCloud Application Director* guide.

Packages that you export using CLI are encoded in the plain text package file and cannot be imported using REST APIs. To import these packages using REST APIs, use an external tool to convert the plain text package file to a Base64 encoded package.

To import packages using REST APIs that were previously exported with the CLI, use an external tool to convert the plain text package file to a Base64 encoded package.

Export an Application, Service, or Task Version

Exports a list of APPLICATION_VERSION, SERVICE_VERSION, or SCRIPT_TASK_VERSION information to import to another vCloud Application Director appliance. The output is Base64 encoded.

The user account with the **ROLE_APP_ARCHITECT** application architect role and **ROLE_CATALOG_ADMIN** catalog administrator role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/1.0/action/export`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/1.0/action/export`

Request

Table 19-1. Description for Request Message

| Request Message | Description |
|-----------------------------|---|
| stripSecuredProperties | Specifies whether to remove the secure properties. |
| exportRequestParameter | Specifies the object to export. |
| exportRequestParameter.type | Specifies the types of available export parameters. The valid export parameters are, APPLICATION_VERSION, SERVICE_VERSION, and SCRIPT_TASK_VERSION. |

```
{
  "stripSecuredProperties":true,
  "exportRequestParameter":[
    {
      "name":"dukesbank",
      "major":1,
      "minor":0,
      "micro":0,
      "qualifier":"",
      "type":"APPLICATION_VERSION"
    }
  ]
}
```

Response

Table 19-2. Description for Response Messages

| Response Message | Description |
|------------------|--------------------------------------|
| result | Shows the Base64 encoded object xml. |

```
{
  "errors":false,
  "messageList":[
  ],
  "result":"UEQ5NGJXd2dkbVZ5YzJsdm..."
}
```

Import an Application, Service, or Task Version

Imports a package that includes APPLICATION_VERSION, SERVICE_VERSION, or SCRIPT_TASK_VERSION, previously exported from a different vCloud Application Director appliance. The input must be Base64 encoded.

The user account with the **ROLE_APP_ARCHITECT** application architect role and **ROLE_CATALOG_ADMIN** catalog administrator role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/1.0/action/import`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

```
https://ApplicationDirectorServerIP:8443/darwin/api/1.0/action/import
```

Request

Table 19-3. Description for Request Message

| Request Message | Description |
|--------------------------|--|
| exportPackage | Indicates the Base64 encoded object xml. |
| conflictResolutionAction | Indicates the options for importing the object. The valid import options are, CHECK, SKIP, OVERWRITE, and IMPORTASNEW. NOTE If you use the OVERWRITE option, all of the related services and logical templates are overwritten. This option also affects other applications that use those services and logical templates. |
| importAsNewSuffix | Indicates the suffix to add to the object name. Adding a suffix to the object when importing avoids conflict in the repository. |

```
{
  "exportPackage":"UEQ5NGJXd2dkbVZ5YzJsdm...",
  "conflictResolutionAction":"IMPORTASNEW",
  "importAsNewSuffix":"John-test"
}
```

Response

```
{
  "errors":false,
  "messageList":[
    {
      "messageType":"INFO",
      "message":"Application saved successfully.",
      "messageKey":null,
      "property":null
    },
    {
      "messageType":"INFO",
      "message":"CentOS56 64bit_John-test:1.0.0",
      "messageKey":"VM_TEMPLATE_VERSION_CREATED",
      "property":null
    },
    {
      "messageType":"INFO",
      "message":"CentOS64_John-test:5.6.0",
      "messageKey":"OS_VERSION_CREATED",
      "property":null
    },
    {
      "messageType":"INFO",
      "message":"Logical VM template saved successfully.",
      "messageKey":null,
      "property":null
    },
    {
```

```
        "messageType": "INFO",
        "message": "OS Templates_John-test-SERVER_TYPE",
        "messageKey": "META_TAG_CREATED",
        "property": null
    },
    {
        "messageType": "INFO",
        "message": "Tag saved successfully",
        "messageKey": null,
        "property": null
    },
    {
        "messageType": "INFO",
        "message": "operatingSystem.save.msg",
        "messageKey": null,
        "property": null
    },
    {
        "messageType": "INFO",
        "message": "John_John-test:1.0.0",
        "messageKey": "APPLICATION_VERSION_CREATED",
        "property": null
    },
    {
        "messageType": "INFO",
        "message": "Import succeeded.",
        "messageKey": "IMPORT_SUCCESS",
        "property": null
    }
]
}
```


REST API for Notification Registration

20

A notification is a message that is sent from the vCloud Application Director server when an application deployment, update, or teardown process is scheduled, started, and finished. The message contains details about the deployment type, what triggered the deployment, the deployment start time, the deployment end time, and the deployment status.

With a notification, you can monitor the vCloud Application Director deployment task events and customize a task when an event begins. For example, you can send a message to notify a deployer that the application deployment task is complete.

You can also use a notification to create a monitoring system to monitor and report the deployment status.

Notification Registration

Receives notifications from the vCloud Application Director server. The notification registration includes the following processes.

- Sends a Base64 encoded public key to the server. This process causes the server to allocate the use of a public key to create a signed certification. The server also allocates a queue on the RabbitMQ server. The response output contains two Base64 encoded X.509 certificates and RabbitMQ connection information.
- Uses the client certificate as the client certificate for RabbitMQ communication.
- Uses the root certificate as the authorized root for RabbitMQ communication.

The user account with the **SYSTEM_INTEGRATOR** system integrator role can access this API.

HTTP Method

POST

URI Syntax

`https://ApplicationDirectorServerIP:8443/darwin/api/1.0/notifications/register`

You must type the URI syntax because the copy and paste operation removes formatting from the text.

Example URI syntax:

`https://ApplicationDirectorServerIP:8443/darwin/api/1.0/notifications/register`

Request

Table 20-1. Description for Request Message

| Request Message | Description |
|-----------------|--|
| clientPublicKey | Specifies the Base64 encoded public key to register queue. |

```
{
  "clientPublicKey" : "MIIIBIjANBgqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAv8Mv3MiXRNxImFntlmd1Qki0fREcf1As
  UV95fwUt8NH8Ke
  +hi2TqbLU8hhHD6tP0fTEhSs7yBha03148S6WrskAhzqD3SW7HaBpW01Dpg5oB/eIfVU2nmFY7s6D3DJ9s20YcjCcyP
  +ojXGGRYffsqNDj003o4/YXWq6n8ad5hfLmveAprs4TGi18jwn7EuH7brtSb5fMyPHpmeYQp
  +clqPLmKOC0S0E0/fhoSHmVafhS23cv521b8SkeU8WVHXI8n0FwPZUJGG+PKxFAcf/8wZOV7XHKIhiiV++/CB79jC/+J1Cd
  +yRt4Er25QnCF+PnLk13/0bd95vdPOYNZNhGuwIDAQAB"}
}
```

Response

Table 20-2. Description for Response Messages

| Response Message | Description |
|------------------|--|
| amqpUsername | Shows the user login for RabbitMq. |
| amqpPassword | Shows the password for RabbitMq. |
| amqpQueueName | Shows the queue name. After disconnecting from the RabbitMq server, this queue is deleted and a queue is created for a new call. |
| amqpHostname | Shows the RabbitMq server IP or host name. |
| clientCert | Shows the certificate that is created based on the public key sent with the REST API call. |
| rootCert | Shows the certificate that is created based on the RabbitMq server key. |

```
{
  "errors": false,
  "messageList": [

  ],
  "amqpUsername": "appd_notifier",
  "amqpPassword": "darwin",
  "amqpQueueName": "appd.notification-b9507143-0fe9-42f5-b16d-a798afa01827",
  "amqpHostname": "192.0.2.255",
  "amqpPort": 5671,
  "clientCert": "TULJRghUQ0NBbTJnQXdJQkFnSUdBGV15cEp6ZU1BMEdDU3FHU0liM0RRRUJCUVBTUzJelEQWVCZ05W
  QkFNTUYwRndjr3hwwTJGMGFXXVJRvJwY21WamR
  HOXLJRu5CTVIwd0d3WURWUvFMREJSQmNIQnNhV05oZEEdsdmJpQkVhWEpsWTNSdmNqRVBNQTBHQTFVRUNnd0dWazEzWWhKbE1C
  NFhEVEV5TURreE1UQXdNRFEExTmxvWERUTXlNRGt
  3TmPBd01EUTF0bG93Y1RFL01EMEdBMVVFQXd3MllyQndaQzV1YjNScFptbGpZWfJwYjI0dFlqazFNRGN4TkrNdE1HwmxPUzAw
  TW1ZMUxXSXh0bVf0WVRjNU9HRm1ZVEF4T0RJM01
  SMHdHd1lEVlFRTERCUKjJSEJzYVd0aGRhbHZiaUJFYVhKbFkzUnZjakVQUtEwR0ExVUVDZ3dHVmsxM1lYsmxNSU1CSWpBTKJn
  a3Foa2lHOXcwQkFRRUZBQU9DQVE4QU1JSUJDZ0t
  DQVFFQXY4TYXZTWlYUk54SW1GbnRsbWQxUWtpMGZSRWNmMUFzVzVY5NWZ3VXQ4TkG4S2UraGkyVHFiTfU4aGhIRDZ0UDBMVEVo
  U3M3eUJoYTAzMTQ4UzZXcnRnRQWh6cUQzU1c3SGF
  CcFwMURwZzVvQi9lSWZWTJubUZZN3M2RDNESj1zZmJBY2pDY3lQK29qWEdHULmZnNXTkrRqTzAzbzQvWWhXctZuOGFkNWhm
  TG12ZUwFUnM0VEdpbDhdq243RXVIN2JydFniNWZ
  NeVBIcG1lWfWk2NscVBMBUtPQzBTMEVPL2Zob1NiBVzhZmhTMjNjdjUyMWI4U2t1VThXVkhYSThuMEZ3UFpVSkdHK1BLLeZB
  Y2YvOHdaT1Y3WEhLSWhpaVYrKy9DQjc5akMvK0o
  xQ2QreVJ0NEVYmJvRbKngK1BuTGsXMy8wYmQ5NXZkUE9ZTlP0aEd1d0lEQVFBQm8wSXdRREFKQmdOVkhRNEVGZ1FVe1VPT0ZL
}
```

```

Z2h4WkE2NWJ2aUtCcnJ0dmpmdG0wd0h3WURWUjB
qQkJnd0ZvQVVXSE9ubE10TWQ2bEc2REIrcUR2SzRkcLk0a0V3RFFZSkvtWkLodmNOQVFFRkJRQRnZ0VCQJrMlJiZfJiNWU1
SUFVTlNBc0M4UWZ3aVvKNW9yN3BuQ0k1c1piS1k
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```


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