VMware vFabric Application Director
API Programming

vFabric Application Director 5.0

This document supports the version of each product listed and supports all subsequent versions until the document is replaced by a new edition. To check for more recent editions of this document, see http://www.vmware.com/support/pubs.
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Using VMware vFabric Application Director API Programming

The VMware® vFabric 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, update a deployed application, tear down a deployed application, and delete applications in vFabric Application Director. In addition, you can use clients of the REST APIs to register for Advanced Message Queuing Protocol (AMQP) notifications when vFabric 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 vFabric Application Director

REST APIs

vFabric Application Director 5.0 includes the VMware vFabric Application Director for Provisioning and VMware vFabric Application Director for Release Automation editions.

The vFabric Application Director for Provisioning edition consists of the basic product features. The vFabric Application Director for Release Automation edition includes the basic features, updating a deployed application, and deploying applications to the Amazon EC2 environment capabilities.

NOTE To access the REST APIs to scale and configure deployed applications, use the VMware vFabric Application Director for Release Automation.

Before you implement the REST APIs for automation purposes, verify the availability of the following items in the vFabric Application Director appliance.

- Application blueprint
- Deployment profile
- Cloud providers
- Deployment environment
- Catalog components such as mapped logical templates or configured services

You can set up and configure these items from the appliance user interface.

NOTE You can set up and configure these items from the appliance user interface. If an application blueprint is modified, create a deployment profile that includes the changes for the REST API to use.

Setup Environment

You must have a REST client application to make HTTP requests. The REST client must use the proper user credentials to access the vFabric Application Director server.

Use Basic Auth to authenticate with the vFabric Application Director server. Set Content-type and Accept HTTP headers to `application/json`.

HTTP Methods

The REST APIs support the following HTTP methods.

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>Retrieve data</td>
</tr>
<tr>
<td>POST</td>
<td>Modify data or perform an action.</td>
</tr>
<tr>
<td>DELETE</td>
<td>Delete data</td>
</tr>
</tbody>
</table>
REST APIs for Applications

View applications and associated application versions. The APIs are useful for retrieving all of the application and application versions that are created.

Get Applications

Retrieves a paginated list of applications.

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

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/applications/page/Page/page-size/PageSize

**Note** 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/applications/page/0/page-size/2

Response

**Table 2-1. Description for Response Messages**

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>errors</td>
<td>Indicates a problem.</td>
</tr>
<tr>
<td>messageList</td>
<td>Indicates messages from the server for the request.</td>
</tr>
<tr>
<td>count</td>
<td>Indicates the total number of records.</td>
</tr>
<tr>
<td>id</td>
<td>Indicates the identifier for the application.</td>
</tr>
<tr>
<td>lastUpdated</td>
<td>Indicates the last update time.</td>
</tr>
<tr>
<td>lastUpdateUser</td>
<td>Indicates last user who updated the application.</td>
</tr>
<tr>
<td>created</td>
<td>Indicates the time when the application was created.</td>
</tr>
<tr>
<td>createUser</td>
<td>Indicates the user who created the application.</td>
</tr>
</tbody>
</table>
Table 2-1. Description for Response Messages (Continued)

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Indicates the user assigned application name.</td>
</tr>
<tr>
<td>description</td>
<td>Indicates the user provided application description.</td>
</tr>
</tbody>
</table>

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

    ],
    "count":8,
    "results": [
    {
        "id": "599",
        "lastUpdated": 1342560702912,
        "lastUpdateUser": "SYSTEM",
        "created": 1342560702912,
        "createUser": "SYSTEM",
        "name": "Clustered DotShoppingCart",
        "description": "An ASP.NET E-Commerce and CMS solution."
    },
    {
        "id": "501",
        "lastUpdated": 1342560702318,
        "lastUpdateUser": "SYSTEM",
        "created": 1342560702318,
        "createUser": "SYSTEM",
        "name": "Clustered Dukes Bank App",
        "description": "Clustered Dukes Bank App"
    }
    ]
}
```

Get Application Versions

Retrieves a paginated list of application versions for an application.

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

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/application-versions/ApplicationID/page/Page/page-size/PageSize

**NOTE** 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 vFabric Application Director REST APIs. In this case, the object-type is the application and id is the id element that was retrieved from the get applications call. The ApplicationID variable is the id element generated when you run the Get Applications REST API.

Example URI syntax:

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/application-versions/501/page/0/page-size/2

Response

Table 2-2. Description for Response Messages

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>micro, major, minor, and qualifier</td>
<td>Denotes the application version information.</td>
</tr>
</tbody>
</table>

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

   ],
   "count":2,
   "results": [
   {
     "id": "502",
     "lastUpdated": 1331830800000,
     "lastUpdateUser": "SYSTEM",
     "created": 1331830800000,
     "createUser": "SYSTEM",
     "description": "Three-tier Dukes Bank application on Windows nodes; Apache HTTP Server for load balancer, Microsoft IIS for application server, and Microsoft SQL Server for database server."
   },
   {
     "id": "501",
     "lastUpdated": 1322020758327,
     "lastUpdateUser": "SYSTEM",
     "created": 1322020758327,
     "createUser": "SYSTEM",
     "description": "Three-tier Dukes Bank application on Linux nodes; Apache HTTP Server for load balancer, JBoss Server for application server (clustered), and MySQL Server for database server."
   }
   ]
}
```
REST APIs for Deployment Profiles

View a list of deployment profiles for an application version. View specific node information for a deployment profile.

Get Deployment Profiles
Retrieves a paginated list of deployment profiles for an application version.
All the vFabric Application Director predefined user accounts and associated roles can access this API.

HTTP Method
GET

URI Syntax
https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment-profiles/ApplicationVersionID/page/Page/page-size/PageSize

Note: 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/deployment-profiles/501/page/0/page-size/2

Response
{
  "errors":false,
  "messageList": [
  ],
  "count":3,
  "results": [
    {
      "id":"306",
      "lastUpdated":1322020758327,
      "lastUpdateUser":"SYSTEM",
      "created":1322020758327,
      "createUser":"SYSTEM",
      "name":"Dev Profile-WDC",
    }
  ]
}
Get Profile Node Information

Retrieves node information such as hardware details for the deployment profile.

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

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment-profile/DeploymentProfileID/node-info

**NOTE** 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/deployment-profile/306/node-info

Response

**Table 3-1. Description for Response Messages**

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>nodes</td>
<td>Shows the nodes in the blueprint</td>
</tr>
<tr>
<td>name</td>
<td>Shows the name of the node</td>
</tr>
<tr>
<td>hostname</td>
<td>Shows the user-specified host name</td>
</tr>
<tr>
<td>vcpu</td>
<td>Shows the number of vCPUs</td>
</tr>
<tr>
<td>memory</td>
<td>Shows the memory in MB</td>
</tr>
<tr>
<td>clustersize</td>
<td>Shows the number of nodes requested if this node is a clustered node</td>
</tr>
<tr>
<td>cloudProviderName</td>
<td>Shows the cloud provider name that the deployment profile is mapped to</td>
</tr>
<tr>
<td>cloudProviderType</td>
<td>Shows the type of cloud provider, vCloud Director or Amazon EC2</td>
</tr>
</tbody>
</table>

{  
  "errors":false, 
  "messageList": [
Chapter 3 REST APIs for Deployment Profiles

```json
},
"result":{
  "nodes":[
  {
    "name":"load_balancer",
    "hostname":"",
    "vcpu":1,
    "memory":512,
    "clusterSize":1
  },
  {
    "name":"database",
    "hostname":"",
    "vcpu":1,
    "memory":512,
    "clusterSize":1
  },
  {
    "name":"appserver",
    "hostname":"",
    "vcpu":1,
    "memory":2048,
    "clusterSize":1
  }
  ],
  "cloudProviderName":"wdc-cloud",
  "cloudProviderType":"vCloud 1.5-5.1"
}
```
REST APIs for Deployment

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 list of application deployments.

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

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployments/page/Page/page-size/PageSize

**Note** 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/deployments/page/0/page-size/2

Response

Table 4-1. Description for Response Messages

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>deploymentName</td>
<td>Represents the name of the deployment.</td>
</tr>
<tr>
<td>deploymentState</td>
<td>Represents the deployment state. The valid deployment states are, DEPLOYMENT_TASK_SCHEDULED, DEPLOYMENT_TASK_IN_PROGRESS, DEPLOYMENT_SUCCESS, DEPLOYMENT_WITH_ISSUES, and DEPLOYMENT_TORNDOWN.</td>
</tr>
<tr>
<td>applicationName</td>
<td>Represents the name of the application for which this deployment was provisioned.</td>
</tr>
<tr>
<td>applicationDescription</td>
<td>Represents the application description.</td>
</tr>
<tr>
<td>deploymentProfileName</td>
<td>Represents the name of the deployment profile.</td>
</tr>
<tr>
<td>deploymentEnvironmentName</td>
<td>Represents the name of the deployment environment selected in the deployment profile.</td>
</tr>
</tbody>
</table>
Table 4.1. Description for Response Messages (Continued)

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cloudProviderName</td>
<td>Represents the cloud provider name.</td>
</tr>
<tr>
<td>groupName</td>
<td>Represents the name of the group to which this deployment belongs.</td>
</tr>
<tr>
<td>deploymentTasks</td>
<td>Represents the deployment task and other tasks such as Scale Out, Configuration update, or Teardown that ran on this deployment.</td>
</tr>
<tr>
<td>deploymentTasks.id</td>
<td>Represents the task ID.</td>
</tr>
<tr>
<td>deploymentTasks.startTime</td>
<td>Represents the time the task started.</td>
</tr>
<tr>
<td>deploymentTasks.endTime</td>
<td>Represents the time the task ended.</td>
</tr>
<tr>
<td>deploymentTasks.createUser</td>
<td>Represents the user who initiated the task.</td>
</tr>
<tr>
<td>deploymentTasks.deploymentTaskType</td>
<td>Represents the type of the task. The task options are, UPDATE_TASK, DEPLOYMENT_TASK, and TEARDOWN_TASK.</td>
</tr>
<tr>
<td>deploymentTasks.deploymentTaskMessages</td>
<td>Represents any information or error message for the task.</td>
</tr>
</tbody>
</table>

```json
{
    "errors":false,
    "messageList": [
        
    ],
    "count":2,
    "results": [
        {
            "id": "2",
            "lastUpdated":1349296913192,
            "lastUpdateUser": "SYSTEM",
            "created":1349296262467,
            "createUser": "admin",
            "deploymentName": "appd-Clustered Dukes Bank App-2.1.0-admin-2-d9bea782-4bb2-4cb7-80f9-8081fb94a11",
            "deploymentState": "DEPLOYMENT_SUCCESS",
            "applicationName": "Clustered Dukes Bank App",
            "applicationDescription": "Clustered Dukes Bank App",
            "deploymentProfileName": "DUKE'S BANC DP - IT",
            "deploymentEnvironmentName": "itest-PAYG",
            "cloudProviderName": "itestOrg",
            "groupName": "Default",
            "deploymentTasks": [
                {
                    "id": "4",
                    "startTime":1349296270648,
                    "endTime":1349296910696,
                    "createUser": "admin",
                    "deploymentTaskType": "DEPLOYMENT_TASK",
                    "deploymentTaskMessages": [
                        "Deployment completed successfully."
                    ]
                }
            ]
        },
        {
            "id": "1",
            "lastUpdated":1349296913192,
            "lastUpdateUser": "SYSTEM",
            "created":1349296262467,
            "createUser": "admin",
            "deploymentName": "appd-Clustered Dukes Bank App-2.1.0-admin-2-d9bea782-4bb2-4cb7-80f9-8081fb94a11",
            "deploymentState": "DEPLOYMENT_SUCCESS",
            "applicationName": "Clustered Dukes Bank App",
            "applicationDescription": "Clustered Dukes Bank App",
            "deploymentProfileName": "DUKE'S BANC DP - IT",
            "deploymentEnvironmentName": "itest-PAYG",
            "cloudProviderName": "itestOrg",
            "groupName": "Default",
            "deploymentTasks": [
                {
                    "id": "4",
                    "startTime":1349296270648,
                    "endTime":1349296910696,
                    "createUser": "admin",
                    "deploymentTaskType": "DEPLOYMENT_TASK",
                    "deploymentTaskMessages": [
                        "Deployment completed successfully."
                    ]
                }
            ]
        }
    ]
}```
Get Deployment Details

Retrieves an application deployment status based on the deployment ID.

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

HTTP Method

GET
URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment/DeploymentID

**Note** 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/deployment/1

Response

```
{
   "errors":false,
   "messageList":[
   ],
   "result":{
      "id":"1",
      "lastUpdated":1349292228008,
      "lastUpdateUser":"SYSTEM",
      "created":1349287500214,
      "createUser":"admin",
      "deploymentName":"appd-Clustered Dukes Bank App-2.1.0-admin-1-36a4f074-d3b2-4fd6-9d74-ae4e8fc231bf",
      "deploymentState":"DEPLOYMENT_WITH_ISSUES",
      "applicationName":"Clustered Dukes Bank App",
      "applicationDescription":"Clustered Dukes Bank App",
      "deploymentProfileName":"DUKE'S BANC DP - IT",
      "deploymentEnvironmentName":"itest-PAYG",
      "cloudProviderName":"itestOrg",
      "groupName":"Default",
      "deploymentTasks":[
      {
         "id":"1",
         "startTime":1349287510885,
         "endTime":1349288176016,
         "createUser":"admin",
         "deploymentTaskType":"DEPLOYMENT_TASK",
         "deploymentTaskMessages":[
            "Deployment completed successfully."
         ]
      },
      {
         "id":"3",
         "startTime":1349292175893,
         "endTime":1349292224853,
         "createUser":"admin",
         "deploymentTaskType":"UPDATE_TASK",
         "deploymentTaskMessages":[
            "Run failed due to failure of task (database, MySql-UPDATE), see Execution Plan for more details"
         ]
      }
      ]
   }
}
```
Get Deployments Across Groups

Retrieves a list of application deployments from all of the vFabric Application Director predefined groups.

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

HTTP Method
GET

URI Syntax
https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployments/all-groups/page/Page/page-size/PageSize

**Note** 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/deployments/all-groups/page/0/page-size/2

Response
{
  "errors":false,
  "messageList": [
    
  ],
  "count":2,
  "results": [
    {
      "id": "2",
      "lastUpdated": 1349296913192,
      "lastUpdateUser": "SYSTEM",
      "created": 1349296262467,
      "createUser": "admin",
      "deploymentName": "appd-Clustered Dukes Bank App-2.1.0-admin-2-d9bea782-4bb2-4cb7-80f9-8081fb9b4a11",
      "deploymentState": "DEPLOYMENT_SUCCESS",
      "applicationName": "Clustered Dukes Bank App",
      "applicationDescription": "Clustered Dukes Bank App",
      "deploymentProfileName": "DUKE'S BANC DP - IT",
      "deploymentEnvironmentName": "ittest-PAYG",
      "cloudProviderName": "ittestOrg",
      "groupName": "Default",
      "deploymentTasks": [
        {
          "id": "4",
          "startTime": 1349296270648,
          
        }
      ]
    }
  ]
}
"endTime":1349296910696,
"createUser":"admin",
"deploymentTaskType":"DEPLOYMENT_TASK",
"deploymentTaskMessages":[
  "Deployment completed successfully."
]
}
],
{
  "id":"1",
  "lastUpdated":1349292228088,
  "lastUpdateUser":"SYSTEM",
  "created":1349287500214,
  "createUser":"admin",
  "deploymentName":"appd-Clustered Dukes Bank App-2.1.0-admin-1-36a4f074-d3b2-4fd6-9d74-ae4e8fc231bf",
  "deploymentState":"DEPLOYMENT_WITH_ISSUES",
  "applicationName":"Clustered Dukes Bank App",
  "applicationDescription":"Clustered Dukes Bank App",
  "deploymentProfileName":"DUKE'S BANC DP - IT",
  "deploymentEnvironmentName":"itest-PAYG",
  "cloudProviderName":"itestOrg",
  "groupName":"Default",
  "deploymentTasks":[
    {
      "id":"1",
      "startTime":1349287510885,
      "endTime":1349288176016,
      "createUser":"admin",
      "deploymentTaskType":"DEPLOYMENT_TASK",
      "deploymentTaskMessages":[
        "Deployment completed successfully."
      ]
    }
  ],
  {
    "id":"3",
    "startTime":1349292175893,
    "endTime":1349292224853,
    "createUser":"admin",
    "deploymentTaskType":"UPDATE_TASK",
    "deploymentTaskMessages":[
      "Run failed due to failure of task (database, MySql-UPDATE), see Execution Plan for more details"
    ]
  }
]}
Get Deployments Node Information

Retrieves the IP and other component details from the specified node.

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

HTTP Method

GET

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment/DeploymentID/node-info

Note 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/deployment/2/node-info

Response

Table 4-2. Description for Response Messages

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Indicates the name of the node.</td>
</tr>
<tr>
<td>instances</td>
<td>Indicates the instances for the node.</td>
</tr>
<tr>
<td>instances.name</td>
<td>Indicates the name of the instance.</td>
</tr>
<tr>
<td>instances.hostname</td>
<td>Indicates the host name for the node.</td>
</tr>
<tr>
<td>instances.state</td>
<td>Indicates the state of the node.</td>
</tr>
<tr>
<td>instances.uri</td>
<td>Indicates the cloud identifier for the node.</td>
</tr>
<tr>
<td>instances.index</td>
<td>Indicates the node index, which is valid for clustered nodes only.</td>
</tr>
<tr>
<td>instances.ipAddresses</td>
<td>Indicates the IP addresses for the node.</td>
</tr>
</tbody>
</table>

```json
{
  "errors":false,
  "messageList": [
    
  ],
  "count":0,
  "results": [
    {
      "name": "load_balancer",
      "instances": [
        {
          "name": "load_balancer",
          "hostname": "load-b-C0JZYRMR",
          "state": "VMSTARTED",
          "uri": "https://192.0.2.255/api/vApp/vm-b1029fb6-9dc3-4bc5-a629-39d22e7d581b",
          "index": -1,
          "ipAddresses": [
            "198.51.100.255",
            "198.51.100.256",
          ],
        }
      ]
    }
  ]
}
```
"192.0.2.255"
]
}
}
",
{
"name":"database",
"instances": [
{
"name":"database",
"hostname":"databa-94ONYBPB",
"state":"VMSTARTED",
"uri":"https://192.0.2.255/api/vApp/vm-d5535170-03bc-4f8f-8f32-8669a392c3a4",
"index":-1,
"ipAddresses": [
"198.51.100.255"
]
}
],
{
"name":"appserver",
"instances": [
{
"name":"appserver_0_",
"hostname":"appser-LT8P8IWY",
"state":"VMSTARTED",
"uri":"https://192.0.2.255/api/vApp/vm-92757448-e4d4-4b86-9f36-2b9b96d635a0",
"index":0,
"ipAddresses": [
"198.51.100.255"
]
}
]
]
Specify the deployment 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 Deployment Time Properties**

Retrieves a list of required properties that you can specify for a deployment when a deployment profile ID is provided.

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

*NOTE* You can use the retrieved properties to specify deployment time properties in a schedule deployment API.

**HTTP Method**

GET

**URI Syntax**

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment-profile/DeploymentProfileID/deploy-props

*NOTE* 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/deployment-profile/307/deploy-props

**Response**

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>node</td>
<td>Represents the node in the blueprint.</td>
</tr>
<tr>
<td>node.nodeComponent</td>
<td>Represents a service or application component in a node.</td>
</tr>
</tbody>
</table>
Table 5-1. Description for Response Messages (Continued)

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>node.nodeComponent.name</td>
<td>Represents the name of the component.</td>
</tr>
<tr>
<td>node.nodeComponent.property</td>
<td>Represents the key properties for the component.</td>
</tr>
</tbody>
</table>

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

    ],
  "result":{
    "node":[
      {
        "name":"jPetStore",
        "nodeComponent":[
          {
            "name":"tcServer",
            "property":[
              {
                "key":"global_conf",
                "value":"https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf"
              },
              {
                "key":"use_ajp",
                "value":"NO"
              }
            ]
          },
          {
            "name":"SQLFire",
            "property":[
              {
                "key":"install_path",
                "value":"/opt/vmware/darwin/sqlfire"
              },
              {
                "key":"SQLFire10_Installer",
                "value":"https://nexus.springsource.com/service/local/repositories/darwin-artifact-binary/content/com/vmware/darwin/app/vFabric_SQLFire/1.0/vFabric_SQLFire-1.0.jar"
              }
            ]
          },
          {
            "name":"jPetStoreApp",
            "property":[
              {
                "key":"schema",
                "value":"https://nexus.springsource.com/service/local/repositories/darwin-artifact-binary/content/com/vmware/darwin/app/jpetstore/1.0.0/jpetstore-1.0.0-schema.sql"
              }
            ]
          }
        ]
      }
    ]
  }
```
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/1.0/deployment-profile/DeploymentProfileID/action/deploy

NOTE 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/deployment-profile/310/action/deploy

Request

```json
{
    "node": [
        {
            "name": "database",
            "nodeComponent": [
                {
                    "name": "MySql",
                    "property": [
                        {
                            "key": "db_port",
                            "value": "4001"
                        }
                    ]
                }
            ]
        },
        {
            "name": "load_balancer",
            "nodeComponent": [
```
{  
  "name": "Apache_LB",
  "property": [
    
    {
      "key": "http_port",
      "value": "8085"
    }
  ]
}
}

Response

{  
  "errors": false,
  "messageList": [
    
    {  
      "messageType": "INFO",
      "message": "Deployment scheduled successfully.",
      "messageKey": "deployment.scheduled.msg",
      "property": null
    }  
  ],  
  "result": "4"
}
View a list of the clustered nodes and define a value to scale the clustered nodes of a deployed application.

**NOTE** To access the REST APIs to scale deployed applications, you must install the VMware vFabric Application Director for Release Automation edition.

### Get Clustered Nodes

Retrieves a list of the clustered nodes in an application deployment.

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

#### HTTP Method

GET

#### URI Syntax

```
https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment/DeploymentID/scale-out-props
```

**NOTE** 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/deployment/3/scale-out-props
```

### Response

**Table 6-1. Description for Response Messages**

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusterNode</td>
<td>Indicates the clustered nodes in the blueprint.</td>
</tr>
<tr>
<td>clusterNode.name</td>
<td>Indicates the name of the clustered node.</td>
</tr>
<tr>
<td>currentClusterSize</td>
<td>Indicates the current cluster size.</td>
</tr>
</tbody>
</table>

```json
{
    "errors":false,
    "messageList": [
        
    ],
    "result": {
```
"clusterNode": [  
  {  
   "name": "appserver",  
   "currentClusterSize": 1  
  }  
]  
}

Scale Out the Clustered Nodes

Scale out the clustered nodes of a deployed application based on the specified value.

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

**Note** Before you use this API, you must specify the update life cycle scripts for all of the affected components.

**HTTP Method**

POST

**URI Syntax**

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment/DeploymentID/action/scale-out

**Note** 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/deployment/3/action/scale-out

**Request**

**Table 6-2. Description for Request Message**

<table>
<thead>
<tr>
<th>Request Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>Identifies the name of nodes to scale out.</td>
</tr>
<tr>
<td>scaleOutBy</td>
<td>Identifies the number of nodes to scale a cluster.</td>
</tr>
</tbody>
</table>

```json
{
  "name": "increase",
  "description": "scale by 1",
  "clusterNode": [
    {
      "name": "appserver",
      "scaleOutBy": 1
    }
  ]
}
```
Response

{
  "errors":false,
  "messageList": [
    {
      "messageType":"INFO",
      "message":"Deployment update scheduled successfully.",
      "messageKey":"deployment.update.scheduled.msg",
      "property":null
    }
  ]
}
View a list of configurable properties and update the deployed application based on the properties defined in the update profile.

**NOTE** To access the REST APIs to configure deployed applications, install the VMware vFabric Application Director for Release Automation edition.

### Get Config Update Properties

Retrieves a list of properties that you can configure in the deployed application. You can use the retrieved properties to start a config update on a deployment.

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

**NOTE** Before you use this API, you must specify the update life cycle scripts for all of the affected components.

**HTTP Method**

**GET**

**URI Syntax**

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment/DeploymentID/config-update-props

**NOTE** 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/deployment/1/config-update-props

**Response**

```json
{
    "errors":false,
    "messageList":[]
},
"result":{
    "profileNodeComponents":[]
}
```
{  
  "name":"Dukes_Bank_App",
  "property":[
    {
      "key":"jboss_deploy_datasource_script",
      "value":"http://192.0.2.255/artifacts/app-components/dukesbank/deploy_datasource.sh"
    },
    {
      "key":"jboss_deploy_component_script",
      "value":"http://192.0.2.255/artifacts/app-components/dukesbank/deploy_component.sh"
    },
    {
      "key":"JBOSS_DATASOURCE_TEMPLATE",
      "value":"http://192.0.2.255/artifacts/app-components/dukesbank/jboss-ds.xml.tmpl"
    },
    {
      "key":"EAR_FILE",
      "value":"https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/dukesbank/2b/dukesbank-2b.ear"
    },
    {
      "key":"JAR_FILE",
      "value":"https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/mysql.jdbc/5.1.6/mysql.jdbc-5.1.6.jar"
    }
  ],
  "name":"JBossAppServer",
  "property":[
    {
      "key":"global_conf",
      "value":"https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf"
    },
    {
      "key":"cheetah_install_script",
      "value":"http://192.0.2.255/artifacts/services/jboss/cheetah_install.sh"
    },
    {
      "key":"jboss_install_script",
      "value":"http://192.0.2.255/artifacts/services/jboss/install.sh"
    },
    {
      "key":"JBOSS_JMX_CONSOLE_USERS_TEMPLATE",
      "value":"http://192.0.2.255/artifacts/services/jboss/jmx-console-users.properties.tmpl"
    }
  ],
  "name":"JBossAppServer",
  "property":[
    {
      "key":"global_conf",
      "value":"https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf"
    },
    {
      "key":"cheetah_install_script",
      "value":"http://192.0.2.255/artifacts/services/jboss/cheetah_install.sh"
    },
    {
      "key":"jboss_install_script",
      "value":"http://192.0.2.255/artifacts/services/jboss/install.sh"
    },
    {
      "key":"JBOSS_JMX_CONSOLE_USERS_TEMPLATE",
      "value":"http://192.0.2.255/artifacts/services/jboss/jmx-console-users.properties.tmpl"
    }
  ]
}
"key": "JBOSS_JMX_USER",
  "value": "admin"
},
{
  "key": "cheetah_tgz_url",
  "value": "https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/cheetah/2.4.4/cheetah-2.4.4.tar.gz"
},
{
  "key": "jboss_configure_script",
  "value": "http://192.0.2.255/artifacts/services/jboss/configure.sh"
},
{
  "key": "JBOSS_JMX_PWD",
  "value": "Virtual"
},
{
  "key": "JBOSS_BOOTRC_TEMPLATE",
  "value": "http://192.0.2.255/artifacts/services/jboss/boot.rc.tmpl"
},
{
  "key": "zip_url",
  "value": "https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/jboss/5.1.0.GA/jboss-5.1.0.GA.zip"
},
{
  "key": "JBOSS_INSTANCE_NAME",
  "value": "default"
}
],

{name: "initialize_db_script",
 "property": [
  {
    "key": "initialize_db_script",
    "value": "http://192.0.2.255/artifacts/app-components/dukesbank/create_bank_db.sql"
  },
  {
    "key": "db_username",
    "value": "dukes_admin"
  },
  {
    "key": "db_password",
    "value": "Virtual"
  },
  {
    "key": "sample_db",
    "value": "dukes_db"
  }
]
},
{
  "name": "MySQL",

"property": [
   {
      "key": "global_conf",
      "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf"
   },
   {
      "key": "db_port",
      "value": "3306"
   },
   {
      "key": "db_root_username",
      "value": "root"
   },
   {
      "key": "db_root_password",
      "value": "Virtual"
   }
],

"name": "Apache_LB",
"property": [
   {
      "key": "global_conf",
      "value": "https://${darwin.server.ip}:8443/darwin/conf/darwin_global.conf"
   },
   {
      "key": "http_node_port",
      "value": "8080"
   },
   {
      "key": "autogen_sticky_cookie",
      "value": "NO"
   },
   {
      "key": "http_proxy_port",
      "value": "8080"
   },
   {
      "key": "http_port",
      "value": "22"
   },
   {
      "key": "tomcat_context",
      "value": ""
   },
   {
      "key": "ajp_proxy_context",
      "value": ""
   },
   {
      "key": "use_ajp",
      "value": "NO"
   }
]
Update a Deployment

Updates the code or configures the deployed application based on the specified properties in the update profile.

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

Note Before you use this API, you must specify the update life cycle scripts for all of the affected components.

HTTP Method

POST

URI Syntax

https://ApplicationDirectorServerIP:8443/darwin/api/1.0/deployment/DeploymentID/action/config-update

Note 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/deployment/1/action/config-update

Request

{  
   "node": [
      {
         "name": "appserver",
         "nodeComponent": [
            {
               "name": "JBossAppServer",
               "property": [
                  {
                     "key": "cheetah_tgz_url",
                     "value": "https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/cheetah/2.4.4/cheetah-2.4.4.tar.gz"
                  }
               ]
            }
      },
      {
         "name": "Dukes_Bank_App",
         "property": [
            {
               "key": "EAR_FILE",
               "value": "https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/dukesbank/2b/dukesbank-2b.ear"
            }
         ]
      }
   ]
}
{  
    "key":"JAR_FILE",
    "value":"https://nexus.springsource.com/content/repositories/darwin-artifact-binary/com/vmware/darwin/app/mysql.jdbc/5.1.6/mysql.jdbc-5.1.6.jar"
}  

},  

},  

{  
    "name":"database",
    "nodeComponent":[
        {  
            "name":"MySql",
            "property":[
                {  
                    "key":"db_port",
                    "value":"3306"
                }  
            ]
        }  
    ],
    "load_balancer":[
        {  
            "name":"Apache_LB",
            "property":[
                {  
                    "key":"http_node_port",
                    "value":"8080"
                }  
            ]
        }  
    ],
    "name":"fix-config",
    "description":"test"
}  

Response  

{  
    "errors":false,
    "messageList":[
        {  
            "messageType":"INFO",
            "message":"Deployment update scheduled successfully.",
            "messageKey":"deployment.update.scheduled.msg",
        }  
    ]
}
Teardown a vApp and associated virtual machines from the cloud environment. Delete the record of a deployment from vFabric Application Director.

**Teardown Deployment**

Removes provisioning for the vApp and associated virtual machines 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/1.0/deployment/DeploymentID/action/teardown/

**Note** 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/deployment/1/action/teardown

**Request**

The request body does not have an output for the teardown process.

**Response**

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

Deletes the details of a particular deployment from vFabric 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/1.0/deployment/DeploymentID/action/delete

**Note**: 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/deployment/1/action/delete

Response

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


REST APIs to Export and Import Application Packages

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

You can also export a package using the vFabric Application Director CLI. See the Using vFabric 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 vFabric 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

Note: 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>
<thead>
<tr>
<th>Request Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>stripSecuredProperties</td>
<td>Specifies whether to remove the secure properties.</td>
</tr>
<tr>
<td>exportRequestParameter</td>
<td>Specifies the object to export.</td>
</tr>
<tr>
<td>exportRequestParameter.type</td>
<td>Specifies the types of available export parameters. The valid export parameters are, APPLICATION_VERSION, SERVICE_VERSION, and SCRIPT_TASK_VERSION.</td>
</tr>
</tbody>
</table>

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

**Response**

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>result</td>
<td>Shows the Base64 encoded object xml.</td>
</tr>
</tbody>
</table>

```
{
    "errors":false,
    "messageList":[
    ],
    "result":"UEQSNJXzd2dVZ5YzJsdm..."
}
```

**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 vFabric 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

**Note**: 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 9-3. Description for Request Message**

<table>
<thead>
<tr>
<th>Request Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>exportPackage</td>
<td>Indicates the Base64 encoded object xml.</td>
</tr>
<tr>
<td>conflictResolutionAction</td>
<td>Indicates the options for importing the object. The valid import options are,</td>
</tr>
<tr>
<td></td>
<td>CHECK, SKIP, OVERWRITE, and IMPORTASNEW. Note: If you use the OVERWRITE</td>
</tr>
<tr>
<td></td>
<td>option, all of the related services and logical templates are overwritten.</td>
</tr>
<tr>
<td></td>
<td>This option also affects other applications that use those services and</td>
</tr>
<tr>
<td></td>
<td>logical templates.</td>
</tr>
<tr>
<td>importAsNewSuffix</td>
<td>Indicates the suffix to add to the object name. Adding a suffix to the</td>
</tr>
<tr>
<td></td>
<td>object when importing avoids conflict in the repository.</td>
</tr>
</tbody>
</table>

```
{
  "exportPackage":"UEQ5NGJXd2dbvZ5YzJsdm....",
  "conflictResolutionAction":"IMPORTASNEW",
  "importAsNewSuffix":"John-test"
}
```

### Response

```
{
  "errors":false,
  "messageList":[
  {
    "messageType":"INFO",
    "message":"Application saved successfully."
  },
  {
    "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 APIs for Notification Registration

View the notification registration information from the vFabric Application Director server.

Notification is a message that is sent from the vFabric 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 notification, you can listen to the vFabric 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 notification to create a monitoring system to monitor and report the deployment status. You can also use notification with REST APIs to create a deployment flow to start several deployments.

**Notification Registration**

Registers to receive notifications from the vFabric 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

**Note** 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 10-1. Description for Request Message

<table>
<thead>
<tr>
<th>Request Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>clientPublicKey</td>
<td>Specifies the Base64 encoded public key to register queue.</td>
</tr>
</tbody>
</table>

```
{  
  "clientPublicKey": "TUlJQklqQUSCZ2txaGtpRzl3MEJBUUVGQlUFQPQ8FR0EFNSULCQzdLQ0FRRUF2OE12M0lpWFJ0eElrM 54GB1qkWFr4T8mUKvijJFz8c1Wv0tVmd1VBO581O  
  Et1k2hpMLRvYxxxOGHs9EOQ2dFawzLRQFoFnPn31CoGeWmZ0E0F0MvJ3za8FoenFEM1NXW0hQn8BMDFEy0Cl1bziUjVMlUy8  
  1QWvz8gkRe05cZkWwNyq2N5UctvahHr1JJ  
  mZvC5ESok8wM280L11Y3bhhz2DxZtv8CfcJzNFREdWw4anduN0V15dmcnRTyjvMx1QSHBtZvlRcCtjbHFQTG1LT0  
  Mwuj8FTy9maG9TS9l1WZwZulZ3Y1MjFioFbNz  
  VU4VIZ1Wek4bjBgd8avufHRytr03hGQmWmLzh3wk9vnlH5olodWvkyvqOJ3QwpOLytkMNukK31dSRFcj11UW5DriQtQbk  
  xrMTyMigjK1OT2FBPWu5aTmhdXj3RFRQUi="}
```

Response

Table 10-2. Description for Response Messages

<table>
<thead>
<tr>
<th>Response Message</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>amqpUsername</td>
<td>Shows the user login for RabbitMq.</td>
</tr>
<tr>
<td>amqpPassword</td>
<td>Shows the password for RabbitMq.</td>
</tr>
<tr>
<td>amqpQueuename</td>
<td>Shows the queue name. After disconnecting from the RabbitMq server, this queue is deleted and a queue is created for a new call.</td>
</tr>
<tr>
<td>amqpHostname</td>
<td>Shows the RabbitMq server IP or host name.</td>
</tr>
<tr>
<td>clientCert</td>
<td>Shows the certificate that is created based on the public key sent with the REST API call.</td>
</tr>
<tr>
<td>rootCert</td>
<td>Shows the certificate that is created based on the RabbitMq server key.</td>
</tr>
</tbody>
</table>

```
{  
  "errors":false,  
  "messageList":[]  
},  
"amqpUsername":"appd_notifier",  
"amqpPassword":"darwin",  
"amqpQueuename":"appd.notification-b9507143-0fe9-42f5-b16d-a7980aa01827",  
"amqpHostname":"192.0.2.255",  
"clientCert": "TUlJRGhuQ0NBbTJ3QkF0NlU3dBG15eP6Z0U1BMEdu3F0Hu0liM0RRRUCUVVBTUJ3eEleEQv0CZ05W  
QkFNTUyWmRdjr3h9zvWlTAQfQx0VJrJwY2lJwamR  
HOX1JRU5hCSTvWd3hUrWufVFMRE3JqsMQnQmVnh9Oz2EdsmJjPnkHv0ePsTVSndmNqRv9NqTBFQVURund6dwazEzWfKbE1C  
NFhEVEvstuReEU10QxdrNReFxTmwwsREUTkINR7w  
37nRbib91ElUtroG9Y1RFL01EMEdBMFVQ0x3dM11YQndoaQzV1YjN5cFptbGpZwFjwYj108FlqazFMRG4mTRnD1HbmxPuzAw  
Tw32Mm3aXKnx80VZo6wRJjN9URhRmZZvFET4TB8M901  
SMHdhdL1ELBFRTERCukJ3E3zyVdOaGRHbHziUJFYVhKbFkZunZjakVTQEUeR0ExVUVZD3dHvmsxM11YSmxNSULc5WpBTK3n  
a3F0aa2HkXw0qKPrFUZ0BU6QdVE4Qj3Su1D09t  
DQFFFXY7TXYY2zLYuk54Sw1bmnRsbWQxUw7pMGZSRNwnMFzVY5Nw3VXQ4Tkg452uSaGykVHF1FTU4aGhIRZB0UdBmVEVo  
U3M3eUjoYAzMTQ4UzCznRwHh6cU0qUI3c3SGF  
CcFvwUMywzVq1i5SwWVTJubUZNN3M2RDE5nJlzMjBZ2pD30Yk29wVEdHULlZmNnXtKqTzAzbqVqWvHx7TZuOFGKnWhm"}
```
Chapter 10 REST APIs for Notification Registration

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