

# VMware Horizon View Security

View 5.2

View Manager 5.2

View Composer 5.2

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# VMware Horizon View Security

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*VMware Horizon View Security* provides a concise reference to the security features of VMware Horizon View™.

- Required system and database login accounts.
- Configuration options and settings that have security implications.
- Resources that must be protected, such as security-relevant configuration files and passwords, and the recommended access controls for secure operation.
- Location of log files and their purpose.
- External interfaces, ports, and services that must be open or enabled for the correct operation of VMware Horizon View.

## Intended Audience

This information is intended for IT decision makers, architects, administrators, and others who must familiarize themselves with the security components of VMware Horizon View. This reference guide should be used in conjunction with the *VMware Horizon View Hardening Guide* and other VMware Horizon View documentation.



# VMware Horizon View Security Reference

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# 1

When you are configuring a secure View environment, you can change settings and make adjustments in several areas to protect your systems.

- [View Accounts](#) on page 8  
You must set up system and database accounts to administer View components.
- [View Security Settings](#) on page 9  
VMware Horizon View includes several settings that you can use to adjust the security of the configuration. You can access the settings by using View Administrator, by editing group profiles, or by using the ADSI Edit utility, as appropriate.
- [View Resources](#) on page 17  
VMware Horizon View includes several configuration files and similar resources that must be protected.
- [View Log Files](#) on page 18  
VMware Horizon View software creates log files that record the installation and operation of its components.
- [View TCP and UDP Ports](#) on page 19  
View uses TCP and UDP ports for network access between its components.
- [Services on a View Connection Server Host](#) on page 25  
The operation of View Manager depends on several services that run on a View Connection Server host. If you want to adjust the operation of these services, you must first familiarize yourself with them.
- [Services on a Security Server](#) on page 25  
The operation of View Manager depends on several services that run on a security server. If you want to adjust the operation of these services, you must first familiarize yourself with them.
- [Services on a View Transfer Server Host](#) on page 26  
Transfer operations for local desktops depend on services that run on a View Transfer Server host. If you want to adjust the operation of these services, you must first familiarize yourself with them.
- [Configuring Security Protocols and Cipher Suites on a View Connection Server Instance or on a Security Server](#) on page 26  
You can configure the security protocols and cipher suites that are accepted by View Connection Server instances. You can define a global acceptance policy that applies to all View Connection Server instances in a replicated group, or you can define an acceptance policy for individual View Connection Server instances and security servers

## View Accounts

You must set up system and database accounts to administer View components.

**Table 1-1.** View System Accounts

View Component	Required Accounts
View Client	Configure user accounts in Active Directory for the users who have access to View desktops. The user accounts must be members of the Remote Desktop Users group, but the accounts do not require View administrator privileges.
View Client with Local Mode	Configure user accounts in Active Directory for the users who have access to View desktops in local mode. The user accounts do not require View administrator privileges. As a standard best practice for desktops, make sure that a unique password is created for the local Administrator account on each View desktop that you plan to use in local mode.
vCenter Server	Configure a user account in Active Directory with permission to perform the operations in vCenter Server that are necessary to support View Manager. For information about the required privileges, see the <i>VMware Horizon View Installation</i> document.
View Composer	Create a user account in Active Directory to use with View Composer. View Composer requires this account to join linked-clone desktops to your Active Directory domain. The user account should not be a View administrative account. Give the account the minimum privileges that it requires to create and remove computer objects in a specified Active Directory container. For example, the account does not require domain administrator privileges. For information about the required privileges, see the <i>VMware Horizon View Installation</i> document.
View Connection Server, Security Server, or View Transfer Server	When you install View, you can choose which members of the local Administrators group (BUILTIN\Administrators) are allowed to log in to View Administrator. In View Administrator, you can use <b>View Configuration &gt; Administrators</b> to change the list of View administrators. See the <i>VMware Horizon View Administration</i> document for information about the privileges that are required.

**Table 1-2.** View Database Accounts

View Component	Required Accounts
View Composer database	An SQL Server or Oracle database stores View Composer data. You create an administrative account for the database that you can associate with the View Composer user account. For information about setting up a View Composer database, see the <i>VMware Horizon View Installation</i> document.
Event database used by View Connection Server	An SQL Server or Oracle database stores View event data. You create an administrative account for the database that View Administrator can use to access the event data. For information about setting up a View Composer database, see the <i>VMware Horizon View Installation</i> document.

To reduce the risk of security vulnerabilities, take the following actions:

- Configure View databases on servers that are separate from other database servers that your organization uses.
- Do not allow a single user account to access multiple databases.
- Configure separate accounts for access to the View Composer and event databases.

## View Security Settings

VMware Horizon View includes several settings that you can use to adjust the security of the configuration. You can access the settings by using View Administrator, by editing group profiles, or by using the ADSI Edit utility, as appropriate.

### Security-Related Global Settings in View Administrator

Security-related global settings for client sessions and connections are accessible under **View Configuration > Global Settings** in View Administrator.

**Table 1-3.** Security-Related Global Settings

Setting	Description
<b>Change data recovery password</b>	<p>The password is required when you restore the View LDAP configuration from an encrypted backup.</p> <p>When you install View Connection Server version 5.1 or later, you provide a data recovery password. After installation, you can change this password in View Administrator.</p> <p>When you back up View Connection Server, the View LDAP configuration is exported as encrypted LDIF data. To restore the encrypted backup with the <code>vdimport</code> utility, you must provide the data recovery password. The password must contain between 1 and 128 characters. Follow your organization's best practices for generating secure passwords.</p>
<b>Disable Single Sign-on for Local Mode operations</b>	<p>Determines if single sign-on is enabled when users log in to their local desktops.</p> <p>This setting is disabled by default.</p>
<b>Enable automatic status updates</b>	<p>Determines if View Manager updates the global status pane in the upper left corner of View Administrator every few minutes. The dashboard page of View Administrator is also updated every few minutes.</p> <p>This setting is disabled by default.</p>
<b>Message security mode</b>	<p>Determines if signing and verification of the JMS messages passed between View Manager components takes place.</p> <p>If set to <b>Disabled</b>, message security mode is disabled.</p> <p>If set to <b>Enabled</b>, View components reject unsigned messages.</p> <p>If set to <b>Mixed</b>, message security mode is enabled, but not enforced for View components that predate View Manager 3.0.</p> <p>The default setting is <b>Enabled</b> for new installations.</p>
<b>Reauthenticate secure tunnel connections after network interruption</b>	<p>Determines if user credentials must be reauthenticated after a network interruption when View clients use secure tunnel connections to View desktops.</p> <p>This setting offers increased security. For example, if a laptop is stolen and moved to a different network, the user cannot automatically gain access to the remote desktop because the network connection was temporarily interrupted.</p> <p>This setting is enabled by default.</p>
<b>Session timeout</b>	<p>Determines how long a user can keep a session open after logging in to View Connection Server.</p> <p>The default is 600 minutes.</p>

**Table 1-3.** Security-Related Global Settings (Continued)

Setting	Description
<b>Use IPsec for Security Server connections</b>	Determines whether to use Internet Protocol Security (IPsec) for connections between security servers and View Connection Server instances. By default, IPsec for security server connections is enabled.
<b>View Administrator session timeout</b>	Determines how long an idle View Administrator session continues before the session times out. <b>IMPORTANT</b> Setting the View Administrator session timeout to a high number of minutes increases the risk of unauthorized use of View Administrator. Use caution when you allow an idle session to persist a long time. By default, the View Administrator session timeout is 30 minutes. You can set a session timeout from 1 to 4320 minutes.

For more information about these settings and their security implications, see the *VMware Horizon View Administration* document.

**NOTE** SSL is required for all View Client connections and View Administrator connections to View. If your View deployment uses load balancers or other client-facing, intermediate servers, you can off-load SSL to them and then configure non-SSL connections on individual View Connection Server instances and security servers. See "Off-load SSL Connections to Intermediate Servers" in the *VMware Horizon View Administration* document.

## Security-Related Server Settings in View Administrator

Security-related server settings are accessible under **View Configuration > Servers** in View Administrator.

**Table 1-4.** Security-Related Server Settings

Setting	Description
<b>Use PCoIP Secure Gateway for PCoIP connections to desktop</b>	Determines whether View Client makes a further secure connection to the View Connection Server or security server host when users connect to a View desktop with the PCoIP display protocol. If this setting is disabled, the desktop session is established directly between the client system and the View desktop virtual machine, bypassing the View Connection Server or security server host. This setting is disabled by default.
<b>Use secure tunnel connection to desktop</b>	Determines whether View Client makes a further HTTPS connection to the View Connection Server or security server host when users connect to a View desktop. If this setting is disabled, the desktop session is established directly between the client system and the View desktop virtual machine, bypassing the View Connection Server or security server host. This setting is enabled by default.
<b>Use secure tunnel connection for Local Mode operations</b>	Determines whether local desktops use tunneled communications. If this setting is enabled, network traffic is routed through View Connection Server or a security server if one is configured. If this setting is disabled, data transfers take place directly between local desktops and View Transfer Server. This setting is disabled by default.

**Table 1-4.** Security-Related Server Settings (Continued)

Setting	Description
Use SSL for Local Mode operations	Determines whether communications and data transfers between client computers and the datacenter use SSL encryption. These operations include checking in and checking out desktops and replicating data from client computers to the datacenter, but do not include transfers of View Composer base images. These operations involve connections between client computers and View Transfer Server.  This setting is enabled by default.
Use SSL when provisioning desktops in Local Mode	Determines whether transfers of View Composer base-image files from the Transfer Server repository to client computers use SSL encryption. These operations involve connections between client computers and View Transfer Server.  This setting is enabled by default.

For more information about these settings and their security implications, see the *VMware Horizon View Administration* document.

## Security-Related Settings in the View Agent Configuration Template

Security-related settings are provided in the ADM template file for View Agent (`vdm_agent.adm`). Unless noted otherwise, the settings include only a Computer Configuration setting.

Security Settings are stored in the registry on the guest machine under `HKLM\Software\Policies\VMware, Inc.\VMware VDM\Agent\Configuration`.

**Table 1-5.** Security-Related Settings in the View Agent Configuration Template

Setting	Registry Value Name	Description
AllowDirectRDP	AllowDirectRDP	Determines whether non-View clients can connect directly to View desktops with RDP. When this setting is disabled, View Agent permits only View-managed connections through View Client.  By default, while a user is logged in to a View desktop session, you can use RDP to connect to the desktop virtual machine from outside of View. The RDP connection terminates the View desktop session, and the View user's unsaved data and settings might be lost. The View user cannot log in to the desktop until the external RDP connection is closed. To avoid this situation, disable the <code>AllowDirectRDP</code> setting.  <b>IMPORTANT</b> For View to operate correctly, the Windows Terminal Services service must be running on the guest operating system of each desktop. You can use this setting to prevent users from making direct RDP connections to their desktops.  This setting is enabled by default.
AllowSingleSignon	AllowSingleSignon	Determines whether single sign-on (SSO) is used to connect users to View desktops. When this setting is enabled, users are required to enter only their credentials when connecting with View Client. When it is disabled, users must reauthenticate when the remote connection is made.  This setting is enabled by default.

**Table 1-5.** Security-Related Settings in the View Agent Configuration Template (Continued)

Setting	Registry Value Name	Description
CommandsToRunOnConnect	CommandsToRunOnConnect	Specifies a list of commands or command scripts to be run when a session is connected for the first time. No list is specified by default.
CommandsToRunOnReconnect	CommandsToRunOnReconnect	Specifies a list of commands or command scripts to be run when a session is reconnected after a disconnect. No list is specified by default.
ConnectionTicketTimeout	VdmConnectionTicketTimeout	Specifies the amount of time in seconds that the View connection ticket is valid. If this setting is not configured, the default timeout period is 120 seconds.
CredentialFilterExceptions	CredentialFilterExceptions	Specifies the executable files that are not allowed to load the agent CredentialFilter. Filenames must not include a path or suffix. Use a semicolon to separate multiple filenames. No list is specified by default.

For more information about these settings and their security implications, see the *VMware Horizon View Administration* document.

## Security Settings in the View Client Configuration Template

Security-related settings are provided in the ADM template file for View Client (`vdm_client.adm`). Except where noted, the settings include only a Computer Configuration setting. If a User Configuration setting is available and you define a value for it, it overrides the equivalent Computer Configuration setting.

Security Settings are stored in the registry on the host machine under `HKLM\Software\Policies\VMware, Inc.\VMware VDM\Client\Security`.

**Table 1-6.** Security Settings in the View Client Configuration Template

Setting	Registry Value Name	Description
Allow command line credentials	AllowCmdLineCredentials	Determines whether user credentials can be provided with View Client command line options. If this setting is enabled, the <code>smartCardPIN</code> and <code>password</code> options are not available when users run View Client from the command line. This setting is enabled by default.
Brokers Trusted For Delegation	BrokersTrustedForDelegation	Specifies the View Connection Server instances that accept the user identity and credential information that is passed when a user selects the <b>Log in as current user</b> check box. If you do not specify any View Connection Server instances, all View Connection Server instances accept this information. To add a View Connection Server instance, use one of the following formats: <ul style="list-style-type: none"> <li>■ <code>domain\system\$</code></li> <li>■ <code>system\$@domain.com</code></li> <li>■ The Service Principal Name (SPN) of the View Connection Server service.</li> </ul>

**Table 1-6.** Security Settings in the View Client Configuration Template (Continued)

Setting	Registry Value Name	Description
Certificate verification mode	CertCheckMode	<p>Configures the level of certificate checking that is performed by View Client. You can select one of these modes:</p> <ul style="list-style-type: none"> <li>■ <b>No Security.</b> View does not perform certificate checking.</li> <li>■ <b>Warn But Allow.</b> When the following server certificate issues occur, a warning is displayed, but the user can continue to connect to View Connection Server: <ul style="list-style-type: none"> <li>■ A self-signed certificate is provided by View. In this case, it is acceptable if the certificate name does not match the View Connection Server name provided by the user in View Client.</li> <li>■ A verifiable certificate that was configured in your deployment has expired or is not yet valid.</li> </ul> </li> </ul> <p>If any other certificate error condition occurs, View displays an error dialog and prevents the user from connecting to View Connection Server.</p> <p><b>Warn But Allow</b> is the default value.</p> <ul style="list-style-type: none"> <li>■ <b>Full Security.</b> If any type of certificate error occurs, the user cannot connect to View Connection Server. View displays certificate errors to the user.</li> </ul> <p>When this group policy setting is configured, users can view the selected certificate verification mode in View Client but cannot configure the setting. The SSL configuration dialog box informs users that the administrator has locked the setting.</p> <p>When this setting is not configured or disabled, View Client users can configure SSL and select a certificate verification mode.</p> <p>To allow a View server to perform checking of certificates provided by a View Client, the View Client must make HTTPS connections to the View Connection Server or security server host. Certificate checking is not supported if you off-load SSL to an intermediate device that makes HTTP connections to the View Connection Server or security server host.</p> <p>For Windows clients, if you do not want to configure this setting as a group policy, you can also enable certificate verification by adding the <code>CertCheckMode</code> value name to the following registry key on the client computer:  HKEY_LOCAL_MACHINE\Software\VMware, Inc.\VMware VDM\Client\Security</p> <p>Use the following values in the registry key:</p> <ul style="list-style-type: none"> <li>■ <b>0</b> implements <b>No Security</b>.</li> <li>■ <b>1</b> implements <b>Warn But Allow</b>.</li> <li>■ <b>2</b> implements <b>Full Security</b>.</li> </ul> <p>If you configure both the group policy setting and the <code>CertCheckMode</code> setting in the registry key, the group policy setting takes precedence over the registry key value.</p>

**Table 1-6.** Security Settings in the View Client Configuration Template (Continued)

Setting	Registry Value Name	Description
Default value of the 'Log in as current user' checkbox	LogInAsCurrentUse	<p>Specifies the default value of the <b>Log in as current user</b> check box on the View Client connection dialog box.</p> <p>This setting overrides the default value specified during View Client installation.</p> <p>If a user runs View Client from the command line and specifies the <code>logInAsCurrentUser</code> option, that value overrides this setting.</p> <p>When the <b>Log in as current user</b> check box is selected, the identity and credential information that the user provided when logging in to the client system is passed to the View Connection Server instance and ultimately to the View desktop. When the check box is deselected, users must provide identity and credential information multiple times before they can access a View desktop.</p> <p>A User Configuration setting is available in addition to the Computer Configuration setting.</p> <p>These settings are disabled by default.</p>
Display option to Log in as current user	LogInAsCurrentUser_Display	<p>Determines whether the <b>Log in as current user</b> check box is visible on the View Client connection dialog box.</p> <p>When the check box is visible, users can select or deselect it and override its default value. When the check box is hidden, users cannot override its default value from the View Client connection dialog box.</p> <p>You can specify the default value for the <b>Log in as current user</b> check box by using the policy setting <code>Default value of the 'Log in as current user' checkbox</code>.</p> <p>A User Configuration setting is available in addition to the Computer Configuration setting.</p> <p>These settings are enabled by default.</p>
Enable jump list integration	EnableJumplist	<p>Determines whether a jump list appears in the View Client icon on the taskbar of Windows 7 and later systems. The jump list lets users connect to recent View Connection Server instances and View desktops.</p> <p>If View Client is shared, you might not want users to see the names of recent desktops. You can disable the jump list by disabling this setting.</p> <p>This setting is enabled by default.</p>
Enable Single Sign-On for smart card authentication	EnableSmartCardSSO	<p>Determines whether single sign-on is enabled for smart card authentication. When single sign-on is enabled, View Client stores the encrypted smart card PIN in temporary memory before submitting it to View Connection Server. When single sign-on is disabled, View Client does not display a custom PIN dialog.</p> <p>This setting is disabled by default.</p>
Ignore bad SSL certificate date received from the server	IgnoreCertDateInvalid	<p>Determines whether errors that are associated with invalid server certificate dates are ignored. These errors occur when a server sends a certificate with a date that has passed.</p> <p>This setting is enabled by default.</p> <p>This setting applies to View 4.6 and earlier releases only.</p>

**Table 1-6.** Security Settings in the View Client Configuration Template (Continued)

Setting	Registry Value Name	Description
Ignore certificate revocation problems	IgnoreRevocation	Determines whether errors that are associated with a revoked server certificate are ignored. These errors occur when the server sends a certificate that has been revoked and when the client cannot verify a certificate's revocation status.  This setting is disabled by default.  This setting applies to View 4.6 and earlier releases only.
Ignore incorrect SSL certificate common name (host name field)	IgnoreCertCnInvalid	Determines whether errors that are associated with incorrect server certificate common names are ignored. These errors occur when the common name on the certificate does not match the hostname of the server that sends it.  This setting is disabled by default.  This setting applies to View 4.6 and earlier releases only.
Ignore incorrect usage problems	IgnoreWrongUsage	Determines whether errors that are associated with incorrect usage of a server certificate are ignored. These errors occur when the server sends a certificate that is intended for a purpose other than verifying the identity of the sender and encrypting server communications.  This setting is disabled by default.  This setting applies to View 4.6 and earlier releases only.
Ignore unknown certificate authority problems	IgnoreUnknownCa	Determines whether errors that are associated with an unknown Certificate Authority (CA) on the server certificate are ignored. These errors occur when the server sends a certificate that is signed by an untrusted third-party CA.  This setting is disabled by default.  This setting applies to View 4.6 and earlier releases only.

For more information about these settings and their security implications, see the *VMware Horizon View Administration* document.

## Security-Related Settings in the Scripting Definitions Section of the View Client Configuration Template

Security-related settings are provided in the Scripting Definitions section of the ADM template file for View Client (`vdm_client.adm`). Unless noted otherwise, the settings include both a Computer Configuration setting and a User Configuration setting. If you define a User Configuration setting, it overrides the equivalent Computer Configuration setting.

Settings for Scripting Definitions are stored in the registry on the host machine under `HKLM\Software\Policies\VMware, Inc.\VMware VDM\Client`.

**Table 1-7.** Security-Related Settings in the Scripting Definitions Section

Setting	Registry Value Name	Description
Connect all USB devices to the desktop on launch	connectUSB0nStartu p	Determines whether all of the available USB devices on the client system are connected to the desktop when the desktop is launched. This setting is disabled by default.
Connect all USB devices to the desktop when they are plugged in	connectUSB0nInsert	Determines whether USB devices are connected to the desktop when they are plugged in to the client system. This setting is disabled by default.
Logon Password	Password	Specifies the password that View Client uses during login. The password is stored in plain text by Active Directory. This setting is undefined by default.

For more information about these settings and their security implications, see the *VMware Horizon View Administration* document.

## Security-Related Settings in View LDAP

Security-related settings are provided in View LDAP under the object path `cn=common,ou=global,ou=properties,dc=vdi,dc=vmware,dc=int`. You can use the ADSI Edit utility to change the value of these settings on a View Connection Server instance. The change propagates automatically to all other View Connection Server instances in a group.

**Table 1-8.** Security-Related Settings in View LDAP

Name-value pair	Attribute	Description
cs-allowunencryptedstartsession	pae-NameValuePair	<p>This attribute controls whether a secure channel is required between a View Connection Server instance and a desktop when a remote user session is being started.</p> <p>When View Agent 5.1 or later is installed on a desktop computer, this attribute has no effect and a secure channel is always required. When a View Agent older than View 5.1 is installed, a secure channel cannot be established if the desktop computer is not a member of a domain with a two-way trust to the domain of the View Connection Server instance. In this case, the attribute is important to determine whether a remote user session can be started without a secure channel.</p> <p>In all cases, user credentials and authorization tickets are protected by a static key. A secure channel provides further assurance of confidentiality by using dynamic keys.</p> <p>If set to <b>0</b>, a remote user session will not start if a secure channel cannot be established. This setting is suitable if all the desktops are in trusted domains or all desktops have View Agent 5.1 or later installed.</p> <p>If set to <b>1</b>, a remote user session can be started even if a secure channel cannot be established. This setting is suitable if some desktops have older View Agents installed and are not in trusted domains.</p> <p>The default setting is <b>1</b>.</p>
	pae-OVDIKeyCipher	<p>Specifies the encryption key cipher that View Connection Server uses to encrypt the virtual disk (.vmdk) file when users check in and check out a local desktop.</p> <p>You can set the encryption key cipher value to <b>AES-128</b>, <b>AES-192</b> or <b>AES-256</b>.</p> <p>The default value is <b>AES-128</b>.</p>
	pae-SSOCredentialCacheTimeout	<p>Sets the single sign-on (SSO) timeout limit in minutes after which a user's SSO credentials are no longer valid.</p> <p>The default value is <b>15</b>.</p> <p>A value of <b>-1</b> means that no SSO timeout limit is set.</p> <p>A value of <b>0</b> disables SSO.</p>

## View Resources

VMware Horizon View includes several configuration files and similar resources that must be protected.

**Table 1-9.** View Connection Server and Security Server Resources

Resource	Location	Protection
LDAP settings	Not applicable.	LDAP data is protected automatically as part of role-based access control.
LDAP backup files	<Drive Letter>:\Programdata\VMware\VDM\backups (Windows Server 2008)	Protected by access control.
locked.properties (Certificate properties file)	install_directory\VMware\VMware View\Server\sslgateway\conf	Can be protected by access control. Ensure that this file is secured against access by any user other than View administrators.

**Table 1-9.** View Connection Server and Security Server Resources (Continued)

Resource	Location	Protection
Log files	%ALLUSERSPROFILE%\Application Data\VMware\VDM\logs <Drive Letter>:\Documents and Settings\All Users\Application Data\VMware\VDM\logs	Protected by access control.
web.xml (Tomcat configuration file)	install_directory\VMware View\Server\broker\web apps\ROOT\Web INF	Protected by access control.

**Table 1-10.** View Transfer Server Resources

Resource	Location	Protection
httpd.conf (Apache configuration file)	install_directory\VMware\VMware View\Server\httpd\conf	Can be protected by access control. Ensure that this file is secured against access by any user other than View administrators.
Log files	<Drive Letter>:\ProgramData\VMware\VDM\logs (Windows Server 2008 R2) <Drive Letter>:\Program Files\Apache Group\Apache2\logs (Apache server)	Protected by access control.

## View Log Files

VMware Horizon View software creates log files that record the installation and operation of its components.

**NOTE** View log files are intended for use by VMware Support. VMware recommends that you configure and use the event database to monitor View. For more information, see the *VMware Horizon View Installation* and *VMware Horizon View Integration* documents.

**Table 1-11.** View Log Files

View Component	File Path and Other Information
All components (installation logs)	%TEMP%\vminst.log_date_timestamp %TEMP%\vmmsi.log_date_timestamp
View Agent	Windows XP guest OS: <Drive Letter>:\Documents and Settings\All Users\Application Data\VMware\VDM\logs Windows Vista, Windows 7, and Windows 8 guest OS: <Drive Letter>:\ProgramData\VMware\VDM\logs If a User Data Disk (UDD) is configured, <Drive Letter> might correspond to the UDD. The logs for PCoIP are named pcoip_agent*.log and pcoip_server*.log.
View Applications	View Event Database configured on an SQL Server or Oracle database server. Windows Application Event logs. Disabled by default.
View Client with Local Mode	Windows XP host OS: C:\Documents and Settings\%username%\Local Settings\Application Data\VMware\VDM\Logs\ Windows Vista, Windows 7, and Windows 8 host OS: C:\Users\%username%\AppData\Local\VMware\VDM\Logs\ 
View Composer	%system_drive%\Windows\Temp\vmware-viewcomposer-ga-new.log on the linked-clone desktop. The View Composer log contains information about the execution of QuickPrep and Sysprep scripts. The log records the start time and end time of script execution, and any output or error messages.

**Table 1-11.** View Log Files (Continued)

View Component	File Path and Other Information
View Connection Server or Security Server	<p>%ALLUSERSPROFILE%\Application Data\VMware\VDM\logs\*.txt on the server.</p> <p>&lt;Drive Letter&gt;:\Documents and Settings\All Users\Application Data\VMware\VDM\logs\*.txt on the server.</p> <p>The log directory is configurable in the log configuration settings of the View Common Configuration ADM template file (vdm_common.adm).</p> <p>PCoIP Secure Gateway logs are written to files named SecurityGateway_*.log in the PCoIP Secure Gateway subdirectory of the log directory on a security server.</p>
View Services	View Event Database configured on an SQL Server or Oracle database server. Windows System Event logs.
View Transfer Server	<p>Windows Server 2008 R2: &lt;Drive Letter&gt;:\ProgramData\VMware\VDM\logs\*.txt</p> <p>Apache Server: &lt;Drive Letter&gt;:\Program Files\Apache Group\Apache2\logs\error.log</p>

## View TCP and UDP Ports

View uses TCP and UDP ports for network access between its components.

During installation, View can optionally configure Windows firewall rules to open the ports that are used by default. If you change the default ports after installation, you must manually reconfigure Windows firewall rules to allow access on the updated ports. See "Replacing Default Ports for View Services" in the *VMware Horizon View Installation* document.

**Table 1-12.** TCP and UDP Ports Used by View, Excluding Local Mode

Source	Port	Target	Port	Protocol	Description
Security server	*	View Agent	4172	UDP	PCoIP (not SALSA20) if PCoIP Secure Gateway is used.
Security server	4172	View Client	*	UDP	PCoIP (not SALSA20) if PCoIP Secure Gateway is used.
Security server	500	View Connection Server	500	UDP	IPsec negotiation traffic.
Security server	*	View Connection Server	4001	TCP	JMS traffic.
Security server	*	View Connection Server	8009	TCP	AJP13-forwarded Web traffic, if not using IPsec or not using NAT.
Security server	4500	View Connection Server	4500	UDP	AJP13-forwarded Web traffic, when using IPsec through a NAT device.
Security server	*	View desktop	3389	TCP	Microsoft RDP traffic to View desktops.
Security server	*	View desktop	9427	TCP	Wyse MMR redirection.
Security server	*	View desktop	32111	TCP	USB redirection.
Security server	*	View desktop	4172	TCP	PCoIP (HTTPS) if PCoIP Secure Gateway is used.
View Agent	4172	View Client	*	UDP	PCoIP, if PCoIP Secure Gateway is not used.

**Table 1-12.** TCP and UDP Ports Used by View, Excluding Local Mode (Continued)

Source	Port	Target	Port	Protocol	Description
View Agent	4172	View Connection Server or security server	*	UDP	PCoIP (not SALSA20) if PCoIP Secure Gateway is used.
View Client	*	View Connection Server or security server	80	TCP	SSL (HTTPS access) is enabled by default for client connections, but port 80 (HTTP access) can be used in certain cases. See <a href="#">“Notes and Caveats for TCP and UDP Ports Used by View,”</a> on page 23.
View Client	*	View security server	443	TCP	HTTPS access. Port 443 is enabled by default for client connections. Port 443 can be changed. Connection attempts over HTTP to port 80 are redirected to port 443 by default, but port 80 can service client connections if SSL is off-loaded to an intermediate device. You can reconfigure the redirection rule if the HTTPS port was changed. See <a href="#">“Change the Port Number for HTTP Redirection,”</a> on page 24.
View Client	*	View Connection Server	443	TCP	HTTPS access. Port 443 is enabled by default for client connections. Port 443 can be changed. Client connection attempts to port 80 are redirected to port 443 by default, but port 80 can service client connections if SSL is off-loaded to an intermediate device. Connection attempts to port 80 to reach View Administrator are not redirected. You must connect over HTTPS to reach View Administrator. You can prevent HTTP redirection and force clients to use HTTPS. See <a href="#">“Prevent HTTP Redirection for Client Connections,”</a> on page 24.
View Client	*	View Connection Server or security server	4172	TCP	PCoIP (HTTPS) if PCoIP Secure Gateway is used.

**Table 1-12.** TCP and UDP Ports Used by View, Excluding Local Mode (Continued)

Source	Port	Target	Port	Protocol	Description
View Client	*	View desktop	3389	TCP	Microsoft RDP traffic to View desktops if direct connections are used instead of tunnel connections.
View Client	*	View desktop	9427	TCP	Wyse MMR redirection if direct connections are used instead of tunnel connections.
View Client	*	View desktop	32111	TCP	USB redirection if direct connections are used instead of tunnel connections.
View Client	*	View Agent	4172	TCP	PCoIP (HTTPS) if PCoIP Secure Gateway is not used.
View Client	*	View Agent	4172	UDP	PCoIP, if PCoIP Secure Gateway is not used.
View Client	*	View Connection Server or security server	4172	UDP	PCoIP (not SALSA20) if PCoIP Secure Gateway is used.
View Connection Server	*	vCenter Server or View Composer	80	TCP	SOAP messages if SSL is disabled for access to vCenter Servers or View Composer.
View Connection Server	*	vCenter Server or View Composer	443	TCP	SOAP messages if SSL is enabled for access to vCenter Servers or View Composer.
View Connection Server	*	View Agent	4172	UDP	PCoIP (not SALSA20) if PCoIP Secure Gateway via the View Connection Server is used.
View Connection Server	4172	View Client	*	UDP	PCoIP (not SALSA20) if PCoIP Secure Gateway via the View Connection Server is used.
View Connection Server	*	View Connection Server	4100	TCP	JMS inter-router traffic.
View Connection Server	*	View desktop	3389	TCP	Microsoft RDP traffic to View desktops if tunnel connections via the View Connection Server are used.
View Connection Server	*	View desktop	4172	TCP	PCoIP (HTTPS) if PCoIP Secure Gateway via the View Connection Server is used.
View Connection Server	*	View desktop	9427	TCP	Wyse MMR redirection if tunnel connections via the View Connection Server are used.

**Table 1-12.** TCP and UDP Ports Used by View, Excluding Local Mode (Continued)

Source	Port	Target	Port	Protocol	Description
View Connection Server	*	View desktop	32111	TCP	USB redirection if tunnel connections via the View Connection Server are used.
View desktop	*	View Connection Server instances	4001	TCP	JMS traffic.
View Composer service	*	ESXi host	902	TCP	Used when View Composer customizes linked-clone disks, including View Composer internal disks and, if they are specified, persistent disks and system disposable disks.

## TCP and UDP Ports Used by Local Mode

The Local Mode feature requires you to open an additional number of ports for its correct operation.

**Table 1-13.** TCP and UDP Ports Used by Local Mode

Source	Port	Target	Port	Protocol	Description
Security server	*	View Transfer Server	80	TCP	Local desktop check-out, check-in, and replication if tunnel connections are used and SSL is disabled for local mode operations.
Security server	*	View Transfer Server	443	TCP	Local desktop check-out, check-in, and replication if tunnel connections are used and SSL is enabled for local mode operations.
View Client with Local Mode	*	View Transfer Server	80	TCP	Local desktop check-out, check-in, and replication if direct connections are used instead of tunnel connections, and SSL is disabled for local mode operations.
View Client with Local Mode	*	View Transfer Server	443	TCP	Local desktop check-out, check-in, and replication if direct connections are used instead of tunnel connections, and SSL is enabled for local mode operations.
View Connection Server	*	ESX host	902	TCP	Local desktop check-out, check-in, and replication.

**Table 1-13.** TCP and UDP Ports Used by Local Mode (Continued)

Source	Port	Target	Port	Protocol	Description
View Connection Server	*	View Transfer Server	80	TCP	Local desktop check-out, check-in, and replication if tunnel connections via the View Connection Server are used and SSL is disabled for local mode operations.
View Connection Server	*	View Transfer Server	443	TCP	Local desktop check-out, check-in, and replication if tunnel connections via the View Connection Server are used and SSL is enabled for local mode operations.
View Transfer Server	*	View Connection Server	4001	TCP	JMS traffic to support local mode.
View Transfer Server	*	ESX host	902	TCP	Publishing View Composer packages for local mode.
View Transfer Server	*	Server that hosts the Transfer Server repository network share	445	UDP	Configuring and publishing View Composer packages to the Transfer Server repository network share.

## Notes and Caveats for TCP and UDP Ports Used by View

Connection attempts over HTTP are silently redirected to HTTPS, except for connection attempts to View Administrator. HTTP redirection is not needed with more recent View clients because they default to HTTPS, but it is useful when your users connect with a Web browser, for example to download View Client.

The problem with HTTP redirection is that it is a non-secure protocol. If a user does not form the habit of entering **https://** in the address bar, an attacker can compromise the Web browser, install malware, or steal credentials, even when the expected page is correctly displayed.

---

**NOTE** HTTP redirection for external connections can take place only if you configure your external firewall to allow inbound traffic to TCP port 80.

---

Connection attempts over HTTP to View Administrator are not redirected. Instead, an error message is returned indicating that you must use HTTPS.

To prevent redirection for all HTTP connection attempts, see [“Prevent HTTP Redirection for Client Connections,”](#) on page 24.

Connections to port 80 of a View Connection Server instance or security server can also take place if you off-load SSL client connections to an intermediate device. See "Off-load SSL Connections to Intermediate Servers" in the *VMware Horizon View Administration* document.

To change the SSL port number, see "Replacing Default Ports for View Services" in the *VMware Horizon View Installation* document.

To allow HTTP redirection when the SSL port number was changed, see [“Change the Port Number for HTTP Redirection,”](#) on page 24.

## Change the Port Number for HTTP Redirection

If you replace the default port 443 on a View server, and you want to allow HTTP redirection for View clients that attempt to connect to port 80, you must configure the `locked.properties` file on the View server.

---

**NOTE** This procedure has no effect if you off-load SSL to an intermediate device. With SSL off-loading in place, the HTTP port on the View server provides service to clients.

---

### Prerequisites

Verify that you changed the default port number from 443. If you use the default values that are configured during installation, you do not have to perform this procedure to preserve the HTTP redirection rule.

### Procedure

- 1 Create or edit the `locked.properties` file in the SSL gateway configuration folder on the View Connection Server or security server computer.

For example: `install_directory\VMware\VMware View\Server\sslgateway\conf\locked.properties`

The properties in the `locked.properties` file are case sensitive.

- 2 Add the following lines to the `locked.properties` file:

```
frontMappingHttpDisabled.1=5:*:moved:https::port
frontMappingHttpDisabled.2=3:/error/*:file:docroot
frontMappingHttpDisabled.3=1:/admin*:missing
frontMappingHttpDisabled.4=1:/view-vlsi*:missing
```

In the preceding lines, the variable `port` is the port number to which the client should connect.

If you do not add the preceding lines, the `port` remains 443.

- 3 Restart the View Connection Server service or security server service to make your changes take effect.

## Prevent HTTP Redirection for Client Connections

Attempts by View clients to connect to View servers over HTTP are silently redirected to HTTPS. In some deployments, you might want to prevent users from entering `http://` in their Web browsers and force them to use HTTPS. To prevent HTTP redirection for View clients, you must configure the `locked.properties` file on the View server

---

**NOTE** This procedure has no effect if you off-load SSL to an intermediate device. With SSL off-loading in place, the HTTP port on the View server provides service to clients.

---

### Procedure

- 1 Create or edit the `locked.properties` file in the SSL gateway configuration folder on the View Connection Server or security server computer.

For example: `install_directory\VMware\VMware View\Server\sslgateway\conf\locked.properties`

The properties in the `locked.properties` file are case sensitive.

- 2 Add the following lines to the `locked.properties` file:

```
frontMappingHttpDisabled.1=5:*:missing
frontMappingHttpDisabled.2=3:/error/*:file:docroot
```

- 3 Restart the View Connection Server service or security server service to make your changes take effect.

## Services on a View Connection Server Host

The operation of View Manager depends on several services that run on a View Connection Server host. If you want to adjust the operation of these services, you must first familiarize yourself with them.

**Table 1-14.** View Connection Server Host Services

Service Name	Startup Type	Description
VMware View Connection Server	Automatic	Provides connection broker services. This service must be running for the correct operation of View Manager. If you start or stop this service, it also starts or stops the Framework, Message Bus, Security Gateway, and Web services. This service does not start or stop the VMwareVDMDS service or the VMware View Script Host service.
VMware View Framework Component	Manual	Provides event logging, security, and COM+ framework services for View Manager. This service must be running for the correct operation of View Manager.
VMware View Message Bus Component	Manual	Provides messaging services between View Manager components. This service must be running for the correct operation of View Manager.
VMware View PCoIP Secure Gateway	Manual	Provides PCoIP Secure Gateway services. This service must be running if clients connect to View Connection Server through the PCoIP Secure Gateway.
VMware View Script Host	Automatic (if enabled)	Provides support for third-party scripts that run when you delete virtual machines. This service is disabled by default. You should enable this service if you want to run scripts.
VMware View Security Gateway Component	Manual	Provides secure tunnel services for View Manager. This service must be running for the correct operation of View Manager.
VMware View Web Component	Manual	Provides web services for View Manager. This service must be running for the correct operation of View Manager.
VMwareVDMDS	Automatic	Provides LDAP directory services for View Manager. This service must be running for the correct operation of View Manager. This service must also be running during upgrades of View to ensure that existing data is migrated correctly.

## Services on a Security Server

The operation of View Manager depends on several services that run on a security server. If you want to adjust the operation of these services, you must first familiarize yourself with them.

**Table 1-15.** Security Server Services

Service Name	Startup Type	Description
VMware View Security Server	Automatic	Provides security server services. This service must be running for the correct operation of a security server. If you start or stop this service, it also starts or stops the Framework and Security Gateway services.
VMware View Framework Component	Manual	Provides event logging, security, and COM+ framework services. This service must be running for the correct operation of a security server.
VMware View PCoIP Secure Gateway	Manual	Provides PCoIP Secure Gateway services. This service must be running if clients connect to a security server through the PCoIP Secure Gateway.
VMware View Security Gateway Component	Manual	Provides secure tunnel services. This service must be running for the correct operation of a security server.

## Services on a View Transfer Server Host

Transfer operations for local desktops depend on services that run on a View Transfer Server host. If you want to adjust the operation of these services, you must first familiarize yourself with them.

All of the services that are installed with View Transfer Server must be running for the correct operation of local desktops in View Manager.

**Table 1-16.** View Transfer Server Host Services

Service Name	Startup Type	Description
VMware View Transfer Server	Automatic	Provides services that coordinate the View Transfer Server related services. If you start or stop this service, it also starts or stops the View Transfer Server Control Service and Framework service.
VMware View Transfer Server Control Service	Manual	Provides management capabilities for View Transfer Server and handles communication with View Connection Server.
VMware View Framework Component	Manual	Provides event logging, security, and COM+ framework services for View Manager.
Apache2.2 service	Automatic	Provides data-transfer capabilities for client computers that run View desktops in local mode. The Apache2.2 service is started when you add View Transfer Server to View Manager.

## Configuring Security Protocols and Cipher Suites on a View Connection Server Instance or on a Security Server

You can configure the security protocols and cipher suites that are accepted by View Connection Server instances. You can define a global acceptance policy that applies to all View Connection Server instances in a replicated group, or you can define an acceptance policy for individual View Connection Server instances and security servers

You also can configure the security protocols and cipher suites that View Connection Server instances propose when connecting to vCenter Server and View Composer. You can define a global proposal policy that applies to all View Connection Server instances in a replicated group. You cannot define individual instances to opt out of a global proposal policy.

The default policies and the procedures for configuring policies were changed in View 5.2. For information about earlier View releases, see VMware Knowledge Base article 1021466 at <http://kb.vmware.com/kb/1021466>.

### Default Global Policies for Security Protocols and Cipher Suites

Certain security protocols and cipher suites are provided by default in View 5.2 and later releases. By default, the global acceptance and proposal policies are very similar.

**Table 1-17.** Default Global Policies

Default Security Protocols	Default Cipher Suites
<ul style="list-style-type: none"> <li>■ TLS 1.1</li> <li>■ TLS 1.0</li> <li>■ SSLv2Hello (acceptance policy only)</li> </ul>	<ul style="list-style-type: none"> <li>■ TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA</li> <li>■ TLS_DHE_DSS_WITH_AES_128_CBC_SHA</li> <li>■ TLS_DHE_RSA_WITH_AES_128_CBC_SHA</li> <li>■ TLS_RSA_WITH_AES_128_CBC_SHA</li> <li>■ SSL_RSA_WITH_RC4_128_SHA</li> </ul>

You can change the default policies in the following ways:

- If all connecting clients support TLS 1.1, you can remove TLS 1.0 and SSLv2Hello from the acceptance policy.
- You can add TLS 1.2 to the acceptance and proposal policies, which will then be selected if the other end of the connection supports TLS 1.2.
- If all connecting clients support AES cipher suites, you can remove SSL\_RSA\_WITH\_RC4\_128\_SHA from the acceptance policy.

## Updating JCE Policy Files to Support High-Strength Cipher Suites

You can add high-strength cipher suites for greater assurance, but first you must update the `local_policy.jar` and `US_export_policy.jar` policy files for JRE 7 on each View Connection Server instance and security server. You update these policy files by downloading the Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 7 from the Oracle Java SE Download site.

If you include high-strength cipher suites in the list and do not replace the policy files, you cannot restart the VMware View Connection Server service.

The policy files are located in the `C:\Program Files\VMware\VMware View\Server\jre\lib\security` directory.

For more information about downloading the JCE Unlimited Strength Jurisdiction Policy Files 7, see the Oracle Java SE Download site: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.

After you update the policy files, you must create backups of the files. If you upgrade the View Connection Server instance or security server, any changes that you have made to these files might be overwritten, and you might have to restore the files from the backup.

## Configuring Global Acceptance and Proposal Policies

The default global acceptance and proposal policies are defined in View LDAP attributes. These policies apply to all View Connection Server instances in a replicated group. To change a global policy, you can edit View LDAP on any View Connection Server instance.

Each policy is a single-valued attribute in the following View LDAP location:  
`cn=common,ou=global,ou=properties,dc=vdi,dc=vmware,dc=int`

### Global Acceptance and Proposal Policies Defined in View LDAP

You can edit the View LDAP attributes that define global acceptance and proposal policies.

#### Global Acceptance Policies

The following attribute lists security protocols. You must order the list by placing the latest protocol first:

```
pae-ServerSSLSecureProtocols = "\LIST:TLSv1.1,TLSv1"
```

The following attribute lists the cipher suites. The order of the cipher suites is unimportant. This example shows an abbreviated list:

```
pae-ServerSSLCipherSuites = "\LIST:TLS_DHE_RSA_WITH_AES_128_CBC_SHA,TLS_RSA_WITH_AES_128_CBC_SHA"
```

#### Global Proposal Policies

The following attribute lists security protocols. You must order the list by placing the latest protocol first:

```
pae-ClientSSLSecureProtocols = "\LIST:TLSv1.1,TLSv1"
```

The following attribute lists the cipher suites. This list should be in order of preference. Place the most preferred cipher suite first, the second-most preferred suite next, and so on. This example shows an abbreviated list:

```
pae-ClientSSLCipherSuites = "\LIST:TLS_DHE_RSA_WITH_AES_128_CBC_SHA,TLS_RSA_
WITH_AES_128_CBC_SHA"
```

## Change the Global Acceptance and Proposal Policies

To change the global acceptance and proposal policies for security protocols and cipher suites, you use the ADSI Edit utility to edit View LDAP attributes.

### Prerequisites

- Familiarize yourself with the View LDAP attributes that define the acceptance and proposal policies. See [“Global Acceptance and Proposal Policies Defined in View LDAP,”](#) on page 27.
- See the Microsoft TechNet Web site for information on how to use the ADSI Edit utility on your Windows Server operating system version.

### Procedure

- 1 Start the ADSI Edit utility on your View Connection Server computer.
- 2 In the console tree, select **Connect to**.
- 3 In the **Select or type a Distinguished Name or Naming Context** text box, type the distinguished name **DC=vdi, DC=vmware, DC=int**.
- 4 In the **Select or type a domain or server** text box, select or type **localhost:389** or the fully qualified domain name (FQDN) of the View Connection Server computer followed by port 389.  
For example: **localhost:389** or **mycomputer.mydomain.com:389**
- 5 Expand the ADSI Edit tree, expand **OU=Properties**, select **OU=Global**, and select **OU=Common** in the right pane.
- 6 On the object **CN=Common, OU=Global, OU=Properties**, select each attribute that you want to change and type the new list of security protocols or cipher suites.
- 7 Restart the VMware View Connection Server service.

## Configure Acceptance Policies on Individual View Servers

To specify a local acceptance policy on an individual View Connection Server instance or security server, you must add properties to the `locked.properties` file. If the `locked.properties` file does not yet exist on the View server, you must create it.

You add a `secureProtocols.n` entry for each security protocol that you want to configure. Use the following syntax: `secureProtocols.n=security protocol`.

You add an `enabledCipherSuite.n` entry for each cipher suite that you want to configure. Use the following syntax: `enabledCipherSuite.n=cipher suite`.

The variable *n* is an integer that you add sequentially (1, 2, 3) to each type of entry.

Make sure that the entries in the `locked.properties` file have the correct syntax and the names of the cipher suites and security protocols are spelled correctly. Any errors in the file can cause the negotiation between the client and server to fail.

### Procedure

- 1 Create or edit the `locked.properties` file in the SSL gateway configuration folder on the View Connection Server or security server computer.

For example: `install_directory\VMware\VMware View\Server\sslgateway\conf\`

- 2 Add `secureProtocols.n` and `enabledCipherSuite.n` entries, including the associated security protocols and cipher suites.
- 3 Save the `locked.properties` file.
- 4 Restart the VMware View Connection Server service or VMware View Security Server service to make your changes take effect.

### Example: Default Acceptance Policies on an Individual Server

The following example shows the entries in the `locked.properties` file that are needed to specify the default policies:

```
# The following list should be ordered with the latest protocol first:
```

```
secureProtocols.1=TLSv1.1  
secureProtocols.2=TLSv1  
secureProtocols.3=SSLv2Hello
```

```
# This setting must be the latest protocol given in the list above:
```

```
preferredSecureProtocol=TLSv1.1
```

```
# The order of the following list is unimportant:
```

```
enabledCipherSuite.1=TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA  
enabledCipherSuite.2=TLS_DHE_DSS_WITH_AES_128_CBC_SHA  
enabledCipherSuite.3=TLS_DHE_RSA_WITH_AES_128_CBC_SHA  
enabledCipherSuite.4=TLS_RSA_WITH_AES_128_CBC_SHA  
enabledCipherSuite.5=SSL_RSA_WITH_RC4_128_SHA
```



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