This document describes the two desktop connection protocols supported by the View Agent Direct Connect Plug-in.
Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/04/2014</td>
<td>1.0</td>
<td>Initial release</td>
</tr>
</tbody>
</table>
## Contents

1 Overview

1.1 About Desktop Protocols
  1.1.1 PCoIP
  1.1.2 HTML Access (Blast)
  1.1.3 System Requirements for Using HTML Access (Blast)

1.2 Using the VMware Horizon View Client in the Horizon DaaS Environment
  1.2.1 View Client Download Link Available within Horizon DaaS User Portal
  1.2.2 Accessing Desktops and Applications
  1.2.3 Session Timeout
  1.2.4 Resetting Password
  1.2.5 Desktop Options
  1.2.6 Triggering a Desktop Logoff from the View Client
  1.2.7 VRAM/Pool Provisioning Using PCoIP

2 Install the Required Software

2.1 Install Software for PCoIP
  2.1.1 Create Snapshot
  2.1.2 Create Backup
  2.1.3 Install Correct View Clients
  2.1.4 Prepare Desktops to Support Protocol
  2.1.5 Install DaaS Agent
  2.1.6 Install VMware View Agent
    2.1.6.1 Install View Agent on Desktop (Windows7/8/xp)
    2.1.6.2 Install View agent on Windows Server 2008R2/2012 as Personal Desktop (Non-RDSH)
    2.1.6.3 Install View Agent on Windows Server 2008R2/2012 as RDSH Role
  2.1.7 Install VMware View Agent Direct Connect Plug-in
  2.1.8 Configure Windows RDS Servers (for RD Session Hosts only)
  2.1.9 Using PCoIP with vSphere 5.1 ESXi Hosts

2.2 Install Software for HTML Access (Blast)
  2.2.1 Create Snapshot
  2.2.2 Install Correct Browser
  2.2.3 Prepare Desktops to Support Protocol
  2.2.4 Install DaaS Agent
  2.2.5 Install VMware View Agent
    2.2.5.1 Install View Agent on Desktop (Windows7/8/xp)
    2.2.5.2 Install View agent on Windows Server 2008R2/2012 as Personal Desktop (Non-RDSH)
    2.2.5.3 Install View Agent on Windows Server 2008R2/2012 as RDSH Role
  2.2.6 Install VMware View Agent Direct Connect Plug-in

3 Validate Installation

3.1 Connect to Desktop using View Client

3.2 Troubleshoot View Client Problems
  3.3 Troubleshoot HTML Access (Blast) Connect Problems

4 Optimize Your Display

4.1 Add the PCoIP Group Policy Settings to the Local Computer Policy Environment
  4.2 Add the HTML Access (Blast) Group Policy Settings to the Local Computer Policy Environment
  4.3 Configure Settings
  4.4 Enable 3D Graphics
1 Overview

1.1 About Desktop Protocols

The VMware View Agent has a very small footprint (90Kb) and supports the full View Client capabilities: PCoIP, RDP, HTTPS, SSL, SSO, USB Redirection, printer support, and session management. The View Agent Connect Direct Plug-in supports two desktop connection protocols: PCoIP and HTML Access.

1.1.1 PCoIP

PCoIP is a high performance display protocol. The protocol contains both WAN optimization and support for 3D graphics, resulting in a far superior end user experience when compared to RDP.

To use the PCoIP protocol:

- Each virtual desktop must have the View Agent 6.0.1 and View Agent Direct Connect Plug-in 6.0.1 services installed and running.
- Virtual Desktops must be running the Horizon DaaS Agent 6.1.0.
- End users must have the VMware Horizon View Client installed on their end point device.

1.1.2 HTML Access (Blast)

HTML Access (formerly known as Blast) enables access to a desktop via any HTML5 compliant web browser.

To use HTML Access:

- Each virtual desktop must have View Agent 6.0.1 and View Agent Direct Connect Plug-in service installed and running.
- Virtual Desktops must be running the Horizon DaaS Agent 6.1.0 or later. It’s always recommended to use the latest version of the DaaS Agent.
- SSL certificate install automation must be configured as described in Appendix A.
1.1.3 System Requirements for Using HTML Access (Blast)

Browser on client system:
- Chrome 28 or later
- Internet Explorer 9, 10, or 11 (IE 10 or 11 recommended)
- Safari 6 or later
- Chrome or Safari on iOS devices running iOS 6 or later
- Firefox 21 or later (Firefox 25 or later recommended)

Client operating systems:
- Windows XP SP3 (32-bit)
- Windows7 (32- or 64-bit)
- Windows 7 SP1 (32- or 64-bit)
- Windows 8 Desktop (32- or 64-bit)
- Windows Vista SP1 or SP2 (32-bit)
- Mac OS X Snow Leopard (10.6.8)
- Mac OS X Lion (10.7)
- Mac OS X Mountain Lion (10.8)
- Mac OS X Mavericks (10.9)
- iPad with iOS 6.0 or later (iPad 1 is not supported)
- Chrome OS 28.x or later
1.2 Using the VMware Horizon View Client in the Horizon DaaS Environment

This section lists some of the View Client features you should understand and any environment characteristics unique to the Horizon DaaS integration. For complete documentation on the View Client, refer to the VMware Knowledgebase.

1.2.1 View Client Download Link Available within Horizon DaaS User Portal

If a user launches the Horizon DaaS User Portal and then attempts to connect to a desktop using the PCoIP protocol, the Horizon View Client is launched and the user is seamlessly signed in. The first time a user launches a PCoIP connection from the Desktop Portal they see the following:

Note: Automatic launch of the View Client does not work with AD login names that are UPNs (User Principal Names) instead of sAMAccountNames (the default login name supported by the feature). If the tenant is configured with UPNs enabled, the View Client cannot be launched and pointed to the Portal.

If you launch the Horizon DaaS User Portal and then attempt to connect to a desktop using the HTML Access (Blast) protocol, you are informed that you need to download the View Client by clicking the link in the information dialog. First disable pop-ups in your browser, then initiate an HTML Access connection.

1.2.2 Accessing Desktops and Applications

Note the following regarding launching desktops and remote applications.

- If you log into the View Client and have an active application session, you may be prompted to reconnect depending on the View Client settings. The View Client will only prompt to reconnect to an application session once. It will not prompt again until you logout and log back in. If the session fails to connect, users should attempt to launch applications normally.

- You cannot have an active RDS desktop and active remote application session at the same time.

- PCoIP supports only RDS-based remote applications.

- Idle timeouts are based on the activity on the endpoint device, not on the desktop or application.

- RDP is not a compatible protocol if you are logged in via PCoIP on another device. You must log out of the PCoIP session before attempting to connect via RDP.
- The View Client displays RDS desktops and remote applications as launchable items. If you do not see an option to connect to your RDS pool as a desktop, confirm that the RDS H service is enabled for full desktop access and that you have View Client 3.0 or higher.

- The remote application name displayed is the name assigned in the pool, so it is important to make the names meaningful in order to distinguish between the applications when multiple pools are mapped to them.

- The Reset Application function will log you off of all application sessions regardless of the session host you are using.

- USB re-direction is not supported for RDS-based servers.

- dTRAM 3.0.3 is required to broker connections to RDS-based desktops or remote applications.

### 1.2.3 Session Timeout

The session begins when the user authenticates. This timeout can be changed in the Horizon DaaS Enterprise Center (Configuration ➤ General).

- **User Activity Heartbeat interval**: This value controls the interval between View Client heartbeats. These heartbeats report to the Tenant the amount of idle time that has passed. Idle time occurs when there is no interaction with the end point device, as opposed to idle time in the desktop session. In large desktop deployments, it may reduce network traffic and increase performance to have the activity heartbeats at longer intervals.

- **User Idle timeout**: This value controls the maximum time that a user can be idle while connected to the Tenant. When this time is reached, the user is disconnected from all active View Client Desktop sessions. Additionally, when the user returns, they will be required to re-authenticate in order to access the View Client.

  Note: The User Idle timeout should always be greater than the User Activity Heartbeat interval, and is recommended to be at least double the User Activity Heartbeat Interval to avoid unexpected disconnects from desktops.

- **Broker Session timeout**: This value controls the maximum time that a View Client can be connected to the Tenant before its authentication expires (timeout count starts each time you authenticate). When this timeout occurs, you will not be automatically disconnected from the desktop and are able to keep working, but if you then perform an action that causes communication to the broker (for example, changing settings), the system requires you to re-authenticate and also to log back into the desktop.

  Note: The Broker Session timeout should always be greater than the User Idle timeout, and is recommended to be at least equal to the sum of the User Activity Heartbeat interval and the User Idle timeout.

**General notes:**

- In previous releases, you could use the userportal.session.timeout policy to set this timeout, but this is no longer the case beginning with the 6.1 release.

- View Clients running on the Android OS have been known to override this Horizon DaaS policy setting, resulting in a session timeout of approximately ten minutes.

### 1.2.4 Resetting Password

When logging in to the View Client, a user might be prompted to change their password:

- After entering the new password, the View Client displays a message indicating that the password reset was successful. However, the password is not actually updated until the connection to the View
Agent has occurred. So if the session times out before the connection occurs or the user never launches a desktop session, the password will not be updated.

- If the new password does not conform to AD rules, the log in will be unsuccessful. The user then needs to exit the View Client and attempt to reset the password again.

Note that the following character combinations cannot be used in View Client passwords:

`<`

`>`

`<!—`

`&`;

### 1.2.5 Desktop Options

Once logged in to a desktop, a user can click **Options**: 

![Options menu](image)
The following table explains the functionality available from the Options menu.

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch Desktop</td>
<td>Allows the User to access the Desktop Selection Screen or Switch between open desktop sections. See the Desktop Selection Screen Section for controls and info. This will not work if your session has timed out.</td>
</tr>
</tbody>
</table>
| Autoconnect to this Desktop | For PC and thin clients, makes the specified desktop the user’s default desktop when the desktop is part of a dynamic pool. On the next login, the desktop will immediately be displayed as long as:  
  - The user has only one desktop mapped to them.  
  - There is not a problem with the login credentials or desktop state.  
  If a user selects Autoconnect and then logs in with multiple desktops, the Autoconnect to this Desktop setting is set to off/false. If the session times out, the Autoconnect setting is not saved and the user cannot autoconnect at the next log in. |
| Reset Desktop             | Triggers a reboot on the desktop. This will not work if the session has timed out. |
| Disconnect                | Disconnects the current user from their active session.                     |
| Disconnect and Logoff     | Disconnects and logs off the user from their active session.                |

1.2.6 Triggering a Desktop Logoff from the View Client

Logging off initiates a call to the DaaS Agent which can take up to 30 seconds to complete. As a result, if a user attempts to log back in before the 30 seconds elapses, the log off dialog might still be present.

1.2.7 VRAM/Pool Provisioning Using PCoIP

When a desktop model uses the PCoIP protocol, to prevent black screen, the Horizon DaaS Platform provisions pools of these desktops with the video RAM (VRAM) size set to 128. The service provider can change this policy in the Horizon DaaS Service Center.

Procedure

1. Log in to the Service Center.
2. Select tenants ► policy.
3. Select the Tenant Name from the drop-down.

On the Policy Configuration page, find the policy element.provision.esx.vram.size and adjust the value. The policy sets the VRAM size in KB for provisioning PCoIP protocol desktops and must be divisible by 64. The minimum is 8MB x 1024 and the default/maximum is 128MB x 1024.
2 Install the Required Software

2.1 Install Software for PCoIP

Prerequisite: If you are using PCoIP, the Windows firewall must be enabled and support PCoIP traffic.

2.1.1 Create Snapshot

Important: Prior to installing VMware Software, use the VMware vSphere Client to create a snapshot of the template (gold pattern). Remove the snapshot prior to attempting to seal the gold pattern.

2.1.2 Create Backup

Important: Prior to installing VMware software on the reserved desktop to become a template (gold pattern), consider backing up the desktop first. This functionality is available on the Reserved Desktops page of the Horizon DaaS Enterprise Center.

2.1.3 Install Correct View Clients

End users must have VMware Horizon View Clients installed (compatible with VMware View 5.2 or higher for personal desktops, or compatible with Horizon View 6.0 for RDS-based pools) for one of the following supported platforms:

- Windows, Mac, or Linux personal desktop
- iOS
- Android
- PCoIP thin and zero clients

View Clients for each device can be downloaded from https://www.vmware.com/go/viewclients

2.1.4 Prepare Desktops to Support Protocol

Before installing the software required for connecting to desktops, complete the following pre-installation steps.

Procedure

1. Uninstall all software components related to all other protocols.
Important: You must uninstall all software components related to all other protocols (e.g. HDX, RGS). If you do not uninstall these other protocol components, your template will be corrupted and you will no longer successfully boot into Windows. This warning does not apply to RDP; the presence of RDP components does not cause problems.

2. Update VMware Tools.

3. Make sure that port 443 is not being used by any other software, or use a non-standard port configured at the time of VADCP installation.

4. Make sure that the following ports are open to TCP and/or UDP traffic as indicated:

<table>
<thead>
<tr>
<th>Port(s)</th>
<th>Source</th>
<th>Destination</th>
<th>TCP</th>
<th>UDP</th>
</tr>
</thead>
<tbody>
<tr>
<td>The range of ports specified during the dtRAM installation.</td>
<td>Client</td>
<td>dtRAM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>All ports not used by other software (PCoIP with RDS)</td>
<td>dtRAM</td>
<td>VM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>4172 (PCoIP)</td>
<td>dtRAM</td>
<td>VM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>443 (View communication)</td>
<td>Tenant Appliance</td>
<td>VM</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>32111 (PCoIP)</td>
<td>dtRAM</td>
<td>VM</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>22443 (HTML Access)</td>
<td>dtRAM</td>
<td>VM</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

### 2.1.5 Install DaaS Agent

**Procedure**

1. Copy the most recent executable file (file name will be DaaSAgent_<version#>.msi) to each VM.

2. Run the executable file.

### 2.1.6 Install VMware View Agent

There are three possible scenarios when installing the View Agent

- Install View Agent on Desktop (Windows7/8/xp)
- Install View agent on Windows Server 2008R2/2012 as Personal Desktop (Non-RDSH)
- Install View Agent on Windows Server 2008R2/2012 as RDSH Role

#### 2.1.6.1 Install View Agent on Desktop (Windows7/8/xp)

**Procedure**

1. Download VMware Horizon View Agent 6.0.1 from VMware’s website (https://my.vmware.com). Note that there are separate downloads for 32-bit and 64-bit operating systems.

2. Double-click the View Agent installation file (file name is: VMware-viewagent-x86_64-x.y.z-nnnnnnn.exe). The Welcome window appears, click **Next**.

3. The **License Agreement** window appears. **Accept** the license agreement, click **Next**.

4. The **Desktop OS Configuration** window appears. Click **Next**.
5. The **Custom Setup** window appears. Customize the components that you want to install, and **choose the location** where you want to install the View Agent. Click **Next**.

6. The **Remote Desktop Protocol Configuration** page appears. Select **Enable the Remote desktop capability on this computer** and click **Next**.

7. The **Ready to Install the Program** page appears. Click **Install**.

8. The **Installing View Agent** page appears and shows the installation process.
   
   During installation, a window pops up asking “Would you like to install this device software?” Check **Always trust software from VMware, Inc.** and click **Install**.

9. The installation takes a few minutes to finish. When it finishes, the **Installer Completed** page appears. Click **Finish**.

10. The View Agent Installer Information window appears, requiring restart of the system. Select Yes to restart your virtual machine.

### 2.1.6.2 Install View agent on Windows Server 2008R2/2012 as Personal Desktop (Non-RDSH)

**Procedure**

1. Download VMware Horizon View Agent 6.0.1 from VMware’s website (https://my.vmware.com). Note that there are separate downloads for 32-bit and 64-bit operating systems.

2. Double-click the View Agent installation file (file name is: VMware-viewagent-x86_64-x.y.z-nnnnnnnn.exe). The Welcome window appears, click **Next**.

3. The **License Agreement** window appears. **Accept** the license agreement, click **Next**.

4. The **Desktop OS Configuration** window appears. Select **Install View Agent in ‘desktop mode’** and click **Next**.

5. The **Custom Setup** window appears. Customize the components that you want to install, and **choose the location** where you want to install the View Agent. Click **Next**.

6. The **Remote Desktop Protocol Configuration** page appears. Select **Enable the Remote desktop capability on this computer** and click **Next**.

7. The **Ready to Install the Program** page appears. Click **Install**.

8. The **Installing View Agent** page appears and shows the installation process.
   
   During installation, a window pops up asking “Would you like to install this device software?” Check **Always trust software from VMware, Inc.** and click **Install**.

9. The installation takes a few minutes to finish. When it finishes, the **Installer Completed** page appears. Click **Finish**.

10. The View Agent Installer Information window appears, requiring restart of the system. Select Yes to restart your virtual machine.
2.1.6.3 Install View Agent on Windows Server 2008R2/2012 as RDSH Role

Note: To install the View Agent in this scenario, you MUST run the command line install and cannot use the default “double click” GUI.

Procedure

1. Download VMware Horizon View Agent 6.0.1 from VMware’s website (https://my.vmware.com). Note that there are separate downloads for 32-bit and 64-bit operating systems.

2. Run the following on the command line as an administrator user:
   
   ```
   VMware-viewagent-x86_64-x.y.z-nnnnnnn.exe /v "VDM_SKIP_BROKER_REGISTRATION=1"
   ```

   The Welcome window appears, click Next.

3. The License Agreement window appears. Accept the license agreement, click Next.

4. The Custom Setup window appears. Customize the components that you want to install, and choose the location where you want to install the View Agent. Click Next.

5. The Remote Desktop Protocol Configuration page appears. Select Enable the Remote desktop capability on this computer and click Next.

6. The Ready to Install the Program page appears. Click Install.

7. The Installing View Agent page appears and shows the installation process.

   During installation, a window pops up asking “Would you like to install this device software?” Check Always trust software from VMware, Inc. and click Install.

8. The installation takes a few minutes to finish. When it finishes, the Installer Completed page appears. Click Finish.

9. The View Agent Installer Information window appears, requiring restart of the system. Select Yes to restart your virtual machine.

2.1.7 Install VMware View Agent Direct Connect Plug-in

Procedure

1. Contact your customer support representative for the location from which to download the VMware View Agent Direct Connect 6.0.1. Just as with the View Agent, there are separate downloads for 32-bit and 64-bit operating systems.

2. Double click on the View Agent Direct Connect Plug-in executable to start the installation. The VMware Horizon View Agent Direct Connect Plug-In Setup Wizard launches.

3. Click Next and Accept the terms of the license agreement.

4. Click Next and accept the default port settings.

5. Click Next and then click Install to begin the installation.

6. In the Windows Control Panel, verify that VMware View Agent Direct Connect 6.0.1 appears in the list of installed programs (Control Panel\Programs\Programs and Features). If not, the installation did not complete properly and you will need to reinstall.
2.1.8 Configure Windows RDS Servers (for RD Session Hosts only)

RD WebAccess is a component required by the View Agent for connections.

Note: To use this functionality, you must have version 6.1 or higher of the agent installed.

Procedure

1. Add Role RD WebAccess

2. In Server Manager, click the RemoteApp Manager option:

   ![Server Manager][1]

   Server Manager (PC01P100)
   - Roles
     - Remote Desktop Services
     - RemoteApp Manager (PC01P100.dev.desktop.com)
     - Remote Session Host Configuration
     - Remote Desktop Services Manager
     - Web Server (IIS)
     - Features
     - Diagnostics
     - Configuration
     - Storage

   ![Server Manager][2]

3. Select the Change link as shown below.

   ![RemoteApp Manager][3]

   RemoteApp Manager (PC01P100.dev.desktop.com)
   - RemoteApp Manager
     - Overview
       - RD Session Host Server Settings
         - Change:
           - Clients will connect to PC01P100.dev.desktop.com
           - Users can only start listed RemoteApp programs on initial connection (Recommended)
         - RD Gateway Settings
           - Clients will use RD Gateway settings defined by their domain's Group Policy.
           - Digital Signature Settings
             - Change:
               - A digital certificate is configured. (Using a digital certificate may improve security)
             - RDP Settings
               - Change:
                 - Clients will connect with custom RDP settings.
               - Distribution with RD Web Access
                 - The TSC Web Access Computers group is empty. RemoteApp programs may be unavailable to users. Learn more
                 - A remote desktop connection for this server is visible in RD Web Access. Change
               - More about using RD Web Access

   ![RemoteApp Manager][4]

   Click here and alter remote connection setting.
The RemoteApp Deployment Settings dialog box appears.

4. On the RD Session Host Server tab of the dialog box, select the check box under Remote desktop access:

![RemoteApp Deployment Settings dialog box](image)

5. Click OK.

### 2.1.9 Using PCoIP with vSphere 5.1 ESXi Hosts

There are a few special requirements in order to use PCoIP with virtual desktops running on vSphere v5.1. The vSphere v5.1 build number must be 838463 or later. Please refer to the following VMware KB for specific details:


To enable a virtual desktop, perform the following steps.

**Procedure**

1. If VMware Tools v5.1 is installed, uninstall it.
2. Start the VMware Tools 5.1 installation.
3. Choose a Custom Install.
4. Disable the SVGA drivers and complete the install.
5. Install View Agent 6.0.1
6. Install View Agent Direct Connect 6.0.1

2.2 Install Software for HTML Access (Blast)

2.2.1 Create Snapshot

Important: Prior to installing VMware Software, use the VMware vSphere Client to create a snapshot of the template (gold pattern). Remove the snapshot prior to attempting to seal the gold pattern.

2.2.2 Install Correct Browser

See list of supported browsers in System Requirements for Using HTML Access.

2.2.3 Prepare Desktops to Support Protocol

Before installing the software required to connect to desktops, complete the following pre-installation steps.

Procedure

1. Uninstall all software components related to all other protocols

    Important: You must uninstall all software components related to all other protocols (e.g. HDX, RGS). If you do not uninstall these other protocol components, your template will be corrupted and you will no longer successfully boot into Windows. This warning does not apply to RDP; the presence of RDP components does not cause problems.

2. Update VMware Tools.

3. Make sure that port 443 is not being used by any other software.

4. For HTML Access (Blast), enable the Windows Firewall if not already enabled.

5. Make sure that the following ports are open to TCP and/or UDP traffic as indicated:

<table>
<thead>
<tr>
<th>Port(s)</th>
<th>Source</th>
<th>Destination</th>
<th>TCP</th>
<th>UDP</th>
</tr>
</thead>
<tbody>
<tr>
<td>The range of ports specified during the dtRAM installation.</td>
<td>Client</td>
<td>dtRAM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>4172</td>
<td>dtRAM</td>
<td>VM</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>443</td>
<td>Tenant Appliance</td>
<td>VM</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>22443</td>
<td>dtRAM</td>
<td>VM</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>
2.2.4 Install DaaS Agent

Procedure

1. Copy VMware-DaaS-Agent-6.1.0.msi to each VM. This is an executable file.
2. Run VMware-DaaS-Agent-6.1.0.msi

Note: You must use the DaaS Agent 6.1.0 for HTML Access (Blast) functionality.

2.2.5 Install VMware View Agent

There are three possible scenarios when installing the View Agent

- Install View Agent on Desktop (Windows7/8/xp)
- Install View agent on Windows Server 2008R2/2012 as Personal Desktop (Non-RDSH)
- Install View Agent on Windows Server 2008R2/2012 as RDSH Role

2.2.5.1 Install View Agent on Desktop (Windows7/8/xp)

Procedure

1. Download VMware Horizon View Agent 6.0.1 from VMware’s website (https://my.vmware.com). Note that there are separate downloads for 32-bit and 64-bit operating systems.
2. Double-click the View Agent installation file (file name is: VMware-viewagent-x86_64-x.y.z-nnnnnnnn.exe). The Welcome window appears, click Next.
3. The License Agreement window appears. Accept the license agreement, click Next.
4. The Desktop OS Configuration window appears. Click Next.
5. The Custom Setup window appears. Customize the components that you want to install, and choose the location where you want to install the View Agent. Click Next.
6. The Remote Desktop Protocol Configuration page appears. Select Enable the Remote desktop capability on this computer and click Next.
7. The Ready to Install the Program page appears. Click Install.
8. The Installing View Agent page appears and shows the installation process.

During installation, a window pops up asking “Would you like to install this device software?” Check Always trust software from VMware, Inc. and click Install.
9. The installation takes a few minutes to finish. When it finishes, the Installer Completed page appears. Click Finish.
10. The View Agent Installer Information window appears, requiring restart of the system. Select Yes to restart your virtual machine.
2.2.5.2 Install View agent on Windows Server 2008R2/2012 as Personal Desktop (Non-RDSH)

Procedure
1. Download VMware Horizon View Agent 6.0.1 from VMware’s website (https://my.vmware.com). Note that there are separate downloads for 32-bit and 64-bit operating systems.
2. Double-click the View Agent installation file (file name is: VMware-viewagent-x86_64-x.y.z-nnnnnnn.exe). The Welcome window appears, click Next.
3. The License Agreement window appears. Accept the license agreement, click Next.
4. The Desktop OS Configuration window appears. Select Install View Agent in ‘desktop mode’ and click Next.
5. The Custom Setup window appears. Customize the components that you want to install, and choose the location where you want to install the View Agent. Click Next.
6. The Remote Desktop Protocol Configuration page appears. Select Enable the Remote desktop capability on this computer and click Next.
7. The Ready to Install the Program page appears. Click Install.
8. The Installing View Agent page appears and shows the installation process.
   During installation, a window pops up asking “Would you like to install this device software?” Check Always trust software from VMware, Inc. and click Install.
9. The installation takes a few minutes to finish. When it finishes, the Installer Completed page appears. Click Finish.
10. The View Agent Installer Information window appears, requiring restart of the system. Select Yes to restart your virtual machine.

2.2.5.3 Install View Agent on Windows Server 2008R2/2012 as RDSH Role

Note: To install the View Agent in this scenario, you MUST run the command line install and cannot use the default “double click” GUI.

Procedure
1. Download VMware Horizon View Agent 6.0.1 from VMware’s website (https://my.vmware.com). Note that there are separate downloads for 32-bit and 64-bit operating systems.
2. Run the following on the command line as an administrator user:
   
   `VMware-viewagent-x86_64-x.y.z-nnnnnnn.exe /v "VDM_SKIP_BROKER_REGISTRATION=1"

   The Welcome window appears, click Next.
3. The License Agreement window appears. Accept the license agreement, click Next.
4. The Custom Setup window appears. Customize the components that you want to install, and choose the location where you want to install the View Agent. Click Next.
5. The Remote Desktop Protocol Configuration page appears. Select Enable the Remote desktop capability on this computer and click Next.
6. The Ready to Install the Program page appears. Click Install.
7. The Installing View Agent page appears and shows the installation process.
During installation, a window pops up asking “Would you like to install this device software?” Check **Always trust software from VMware, Inc.** and click **Install**.

8. The installation takes a few minutes to finish. When it finishes, the **Installer Completed** page appears. Click **Finish**.

9. The View Agent Installer Information window appears, requiring restart of the system. Select Yes to restart your virtual machine.

### 2.2.6 Install VMware View Agent Direct Connect Plug-in

**Procedure**

1. Contact your customer support representative for the location from which to download the VMware View Agent Direct Connect 6.0.1. Just as with the View Agent, there are separate downloads for 32-bit and 64-bit operating systems.

2. Double click on the View Agent Direct Connect Plug-in executable to start the installation. The VMware Horizon View Agent Direct Connect Plug-In Setup Wizard launches:

3. Click **Next** and accept the terms of the license agreement.

4. Click **Next** and accept the default port settings.

5. Click **Next** and then click **Install** to begin the installation.

6. In the Windows Control Panel, verify that VMware View Agent Direct Connect 6.0.1 appears in the list of installed programs (Control Panel\Programs\Programs and Features). If not, the installation did not complete properly and you will need to reinstall.
3 Validate Installation

To validate the installation, try to connect to the desktop using the View Client. Trying to connect will verify that:

- Video RAM and driver are sufficient to avoid black screen.
- There are no conflicts in port usage.
- The View Agent installation was successful.
- The View Client version is correct.

3.1 Connect to Desktop using View Client

Note: Do not use the VMware Horizon View Client for Windows with Local Mode Option.

After installing the required software, you should be able to connect to a desktop using the View Client:

Procedure

1. Launch the VMware Horizon View Client.

2. In the Connection Server field, enter the IP address or DNS name of the Desktop Portal:

3. Click Connect.

4. Enter User Name and Password.
5. Click **Login**. The View Client displays the list of available desktops.

   **Note:** The connection is established using the default display protocol. The default can be set in either the Horizon DaaS Desktop Portal or by the System Administrator in the Horizon DaaS Enterprise Center when creating pools.

   **Note:** If you cannot log in, refer to Section 3.2.

6. Select a desktop and click **Connect**.

   **Note:** Right mouse click on a desktop to see the following additional desktop operations:

   - **Connect:** Connects to the desktop using the default display protocol.
   - **Display Protocol:** Overrides the default display protocol.
   - **Logoff:** Ends your desktop session. Any unsaved work will be lost.
   - **Reset Desktop:** Restarts Windows OS.

   **Note:** If you cannot connect to the desktop, refer to Section 3.2.

### 3.2 Troubleshoot View Client Problems

There are several configuration/setup problems that can result in an inability to use the View Client successfully:

- **Login Problems:** If you cannot log in to the View Client, verify that the version of the VMware Horizon View Client you are using is compatible with VMware View 5.1 or higher.

- **Desktop Does Not Launch:** If the Desktop does not launch, verify that no other software in the environment is using port 443.

- **Unable to Connect to Desktop:** If you receive the error message “Unable to Connect to Desktop,” it means that the View Agent is not running. In the Windows Control Panel programs, verify that VMware View Agent 6.0.1 and View Agent Direct Connect 6.0.1 appear in the list of installed programs. If they do not, the installation did not complete properly and you will need to reinstall. If the View Agent software is installed, verify that the View Agent Service is running.

- **Desktop Disconnects:** If a View Client session ends too quickly when idle, this means that View Client Session Timeout settings are configured to allow only a very short idle period. You can configure the View Client Session Timeout settings in Enterprise Center under configuration ► general.

- **Black Screen:** If you experience black screen using the View Client, refer to the troubleshooting instructions in Section 5.1.1.

### 3.3 Troubleshoot HTML Access (Blast) Connect Problems

There are several configuration/setup problems that can result in an inability to launch a HTML Access (Blast) connection successfully:

- **Browser is not HTML5 compliant.** Check that the browser version is one cited in the requirements.

- **Pop-up blocker enabled.** The browser’s pop-up blocker could prevent opening the new window for a HTML Access connection. Make sure that the user disables the pop-up blocker for the Desktop Portal.

- **Windows firewall disabled.** Make sure that the Windows Firewall is installed and running on the user’s desktop. A disabled Windows Firewall will result in errors reported in the HTML Access logs.
4 Optimize Your Display

4.1 Add the PCoIP Group Policy Settings to the Local Computer Policy Environment

To configure the group policies for a gold pattern, you must first add the .adm template file to the Local Computer Policy configuration on this VM.

Procedure
1. On the gold pattern VM, click Start ➤ Run.
2. Type gpedit.msc, and click OK.
   This opens the Local Group Policy Editor console in Windows.
3. Make sure you can connect to the View Connection Server from this VM.
4. In the navigation pane, select Local Computer Policy ➤ Computer Configuration.
5. Right-click Administrative Templates.
   Note: Do not select Administrative Templates under User Configuration.
6. Select Add/Remove Templates.
7. In the Add/Remove Templates dialog, click Add.
8. Download the following file from the Horizon DaaS Library on salesforce.com:
   pcoip_policies.adm
9. Click Open.
10. Close the Add/Remove Templates window.
   The PCoIP group policy settings are added to the Local Computer Policy environment on the desktop system and are available for configuration.
4.2 Add the HTML Access (Blast) Group Policy Settings to the Local Computer Policy Environment

1. In vSphere Web Client or vSphere Client, open a console on a View desktop virtual machine on which you installed the Remote Experience Agent.

   The HTML Access ADM Template file is installed when you install the agent.

2. Copy the HTML Access ADM Template file, Blast-enUS.adm, from the install_directory\VMware\VMware Blast\Tools\Group Policy directory on the View desktop to your Active Directory server.

   The default installation directory is C:\Program Files.

3. On the Active Directory server, edit the GPO.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>b) Expand your domain, right-click the GPO that you created for the group policy settings, and select Edit.</td>
</tr>
<tr>
<td></td>
<td>b) Right-click the OU that contains your View desktops and select Properties.</td>
</tr>
<tr>
<td></td>
<td>c) On the Group Policy tab, click Open to open the Group Policy Management plug-in.</td>
</tr>
<tr>
<td></td>
<td>d) In the right pane, right-click the GPO that you created for the group policy settings and select Edit.</td>
</tr>
</tbody>
</table>

   The Group Policy Object Editor window appears.

4. In the Group Policy Object Editor, right-click Administrative Templates under Computer Configuration and then select Add/Remove Templates.

5. Click Add, browse to the Blast-enUS.adm file, and click Open.

6. Click Close to apply the policy settings in the ADM Template file to the GPO.

   The VMware HTML Access folder appears in the left pane under Administrative Templates > Classic Administrative Templates.

7. Configure the HTML Access group policy settings.

8. Make sure your policy settings are applied to the Horizon View desktops.

   a. Run the gpupdate.exe command on the desktops.
   b. Restart the desktops.
4.3 **Configure Settings**

Set in the following in the Overrideablepolicy group:

1. Enable “Turn off Build-to-Lossless feature”
   
   Mark the check box to turn it off the feature.

2. Enable “Configure PCoIP image quality levels”
   
   - Set Minimum Image Quality to 30
   - Set Maximum Image Quality to 70
   - Set Maximum Frame Rate to 16

4.4 **Enable 3D Graphics**

3D graphics can now be enabled on a per pool basis. Support for 3D graphics is provided using Soft 3D, also known as vSGA (see pages 3-4 of the [VMware white paper on Graphics Acceleration](https://www.vmware.com/files/pdf/white_papers/graphicsAcceleration.pdf) for more information).

In order for you to use 3D graphics feature, the following must be true:

- The virtual hardware version must be 8 or higher.
- Desktop must have the Windows Aero theme
- Servers must have appropriate hardware installed

**Note:** Consult the latest PCoIP recommendations when configuring desktops with this feature.
5 Troubleshooting

This chapter presents the most common problems you might need to troubleshoot. For information on other problems that might occur when using VMware software, refer to the VMware Knowledge Base at http://kb.vmware.com.

5.1 Protocol Problems

5.1.1 Black Screen

- Normally, the View Client will expand the desktop image to encompass the entire View Client display. If the View Client does not fully expand the display, showing black panels along the sides, it might be due to a limit in the Video RAM available. Increasing the Virtual Desktop’s Video RAM might cause the black panels to be removed.

- When you update VMware Tools, the update can in some cases install the wrong video driver, resulting in black screen. The workaround is to log into the session using RDP and install the correct driver.

- If the System Administrator moves a desktop from a non-PCoIP pool to a PCoIP pool and users experience a black screen when trying to connect to the desktop, solutions can be found in the VMware Knowledge Base at kb.vmware.com:
  - Refer to the steps outlined in the VMware Knowledge Base article Black screen when logging into a VMware View virtual desktop using PCoIP.
  - Verify that the Video RAM (VRAM) settings in the Virtual Machine settings (.vmx) file are set properly for multi-monitor access when using the PCoIP protocol. Refer to the VMware Knowledge Base article Determining display and screen resolution settings for PCoIP.
  - Verify that the Video driver is correct for the VMware View Agent and operating system. Refer to the VMware Knowledge Base article “The PCoIP server log reports the error: Error attaching to SVGADevTap, error 4000: EscapeFailed.”
5.1.2 Override ADM PCoIP Defaults

ADM can be configured on the Domain Controller or the master desktop image being used to create a gold pattern. On the master desktop image, the System Administrator can override ADM defaults by running gpedit.msc on the desktop and navigating to the Administrative Template ► Classic Administrative Templates (ADM) ► PCoIP folder:

![Diagram of gpedit.msc settings](image)

5.2 Error Messages

5.2.1 Error 500

If a user receives Error 500 in the View Client, look in the tenant log and make a note of the exception before contacting support. The exception to look for will mention the ViewClientServlet.

5.2.2 Common Error Messages

The following table lists the most common error messages users can receive and the causes when using the View Client to connect to their desktop. The Error Details portion of the message provides information needed by customer support to troubleshoot the connection problem.

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>View Agent Login Failed. Error Details: &lt;Message from Agent&gt;</td>
<td>The View Agent failed the login request sent.</td>
</tr>
<tr>
<td>Session has Expired, Please Restart View Client to Connect</td>
<td>Desktop Portal session timeout has occurred. The Desktop Portal timeout is based on a policy (userportal.session.timeout) set at the service provider, but may be overridden by a Configuration setting in Enterprise Center.</td>
</tr>
<tr>
<td>Error Message</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Unable to allocate a desktop - pool refresh is in progress.</td>
<td>Wait a few minutes and try again. Dynamic pool refresh is underway. This means that desktops are</td>
</tr>
<tr>
<td></td>
<td>being destroyed and recreated based on a new or altered Gold Pattern. Once the refresh completes,</td>
</tr>
<tr>
<td></td>
<td>users will be able to log into their desktop.</td>
</tr>
<tr>
<td>Error communicating with desktop. Please contact your Administrator. Error</td>
<td>Unable to parse error from Authentication Error Response due to interrupted communication between</td>
</tr>
<tr>
<td>Details: Desktop Agent Communication Error</td>
<td>the View Client, Tenant and View Agent Connect. There might be a warning or error in the</td>
</tr>
<tr>
<td></td>
<td>desktop.log file related to ViewClientServlet.</td>
</tr>
<tr>
<td>Could not parsed XML</td>
<td>DataView Client or Agent returned XML which could not be read by the Horizon DaaS Platform.</td>
</tr>
<tr>
<td>Desktop is not ready for connection (may be powering off or on). Please</td>
<td>Desktop is not in a “powered_on” state. If the system is powered off, the admin or user will need</td>
</tr>
<tr>
<td>wait a few minutes or try again. If problem persists, please contact your</td>
<td>to power on the system in the Enterprise Center or Desktop Portal, respectively.</td>
</tr>
<tr>
<td>Administrator. Error Details: Power state &lt; current power state of the VM &gt;</td>
<td>DaaS Agent is reported as offline. Reboot the desktop if the problem persists and console access is</td>
</tr>
<tr>
<td></td>
<td>too long. The DaaS Agent should come up when the desktop comes up (within a few minutes).</td>
</tr>
<tr>
<td>Desktop is not ready for connection (DaaS Agent may be starting up). Please</td>
<td>OS state is not running. Wait until it is running or reboot from Desktop Portal or Enterprise Center.</td>
</tr>
<tr>
<td>wait a few minutes or try again. If problem persists, please contact your</td>
<td></td>
</tr>
<tr>
<td>Administrator.</td>
<td></td>
</tr>
<tr>
<td>Desktop is not ready for connection (may be shutting down or rebooting).</td>
<td>Domain rejoin maintenance is occurring for a dynamic desktop. This can also occur during</td>
</tr>
<tr>
<td>Please wait a few minutes or try again. If problem persists, please contact</td>
<td>dynamic pool refresh.</td>
</tr>
<tr>
<td>your Administrator.</td>
<td></td>
</tr>
<tr>
<td>Unable to Connect to Desktop. Please contact your Administrator. Error Details</td>
<td>The DaaS Agent has reported that the View Agent service is not running or listening on the require</td>
</tr>
<tr>
<td>: View Agent is not running</td>
<td>ports. Make sure that the View Agent is installed and that the firewall ports are open (4172, 32111,</td>
</tr>
<tr>
<td></td>
<td>443). Reboot machine or check service “View Agent Connect” through RDP (User Portal) if possible.</td>
</tr>
<tr>
<td>Unable to Connect to Desktop. Please contact your Administrator. Error Details</td>
<td>VMware Tools are offline. See troubleshooting/solution on VMware tools.</td>
</tr>
<tr>
<td>: VMware Tools are not running</td>
<td></td>
</tr>
<tr>
<td>Unable to Connect to Desktop. Please contact your Administrator. Error Details</td>
<td>VMware Tools are not installed. See troubleshooting/solution on VMware tools.</td>
</tr>
<tr>
<td>: VMware Tools are not installed</td>
<td></td>
</tr>
<tr>
<td>Unable to Connect to Desktop. Desktop has been allocated to a different user</td>
<td>Desktop Unavailable. This is a generic message from the Allocator Service. Try checking the state of</td>
</tr>
<tr>
<td>Please contact your Administrator. Error Details: Desktop Already in Allocated</td>
<td>the machine and the tenant system to see if there are other issues.</td>
</tr>
<tr>
<td>State.</td>
<td></td>
</tr>
<tr>
<td>Unable to Connect to Desktop.</td>
<td>Another user has been allocated this desktop. A session exists with a GUID different from the current</td>
</tr>
<tr>
<td></td>
<td>user.</td>
</tr>
</tbody>
</table>

HEADINGS

- Unable to allocate a desktop - pool refresh is in progress.
- Error communicating with desktop. Please contact your Administrator. Error Details: Desktop Agent Communication Error
- Could not parsed XML
- Desktop is not ready for connection (may be powering off or on). Please wait a few minutes or try again. If problem persists, please contact your Administrator. Error Details: Power state < current power state of the VM >
- Desktop is not ready for connection (DaaS Agent may be starting up). Please wait a few minutes or try again. If problem persists, please contact your Administrator.
- Desktop is not ready for connection (may be shutting down or rebooting). Please wait a few minutes or try again. If problem persists, please contact your Administrator.
- Desktop is not ready for connection (currently in maintenance mode). Please wait a few minutes or try again. If problem persists, please contact your Administrator.
- Unable to Connect to Desktop. Please contact your Administrator. Error Details: View Agent is not running
- Unable to Connect to Desktop. Please contact your Administrator. Error Details: VMware Tools are not running
- Unable to Connect to Desktop. Please contact your Administrator. Error Details: VMware Tools are not installed
- Unable to Connect to Desktop. Please wait a few minutes and try again. If problem persists, please contact your Administrator
- Unable to Connect to Desktop. Desktop has been allocated to a different user. Please Contact your Administrator. Error Details: Desktop Already in Allocated State.
### Troubleshooting

<table>
<thead>
<tr>
<th>Login Failure. Please contact your Administrator. Error Details: Unable to lookup user GUID using credentials</th>
<th>An exception was raised by the Horizon DaaS software during a GUID lookup. Possible reasons include: Domain controller is offline; the Fabric node had failures; general tenant problems.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unable to Connect to Desktop. Please wait a few minutes and try again. If problem persists, please contact your Administrator. Error Details: Unknown IP Address</td>
<td>IP Address is null or invalid. The IP address can be null if the DaaS Agent is in the middle of logging in or the VM is starting up.</td>
</tr>
<tr>
<td>Unable to Connect to Desktop. Please contact your Administrator. Error Details: Invalid IP Address &lt;IP_address&gt;</td>
<td>The IP address is listed only if it is known.</td>
</tr>
<tr>
<td>Unable to Connect to Desktop. Please contact your Administrator. Error Details: Unable to retrieve Tenant Domain information</td>
<td>There is no Domain information logged in the database. The Horizon DaaS Platform cannot associate the tenant with any Domain.</td>
</tr>
<tr>
<td>Login Failure: Unknown user name or bad password. Please try again.</td>
<td>User name or password are invalid for the given domain.</td>
</tr>
<tr>
<td>Unable to Allocate Desktop, No Desktops Available. All desktops in pool are currently in use.</td>
<td>Dynamic pool has no desktops that are available to the user.</td>
</tr>
<tr>
<td>Unable to Connect to Desktop (current connected protocol incompatible). Please log off previous session and try again.</td>
<td>The Allocator Service is indicating the current session is using a non-compatible protocol.</td>
</tr>
<tr>
<td>Unable to complete log off. If problem persists, please contact your Administrator. Error Details: Invalid session id</td>
<td>This error occurs if the Horizon DaaS Platform cannot parse the XML, the session-id key returned in the XML is null, or if the key is malformed.</td>
</tr>
<tr>
<td>Unable to complete log off. If problem persists, please contact your Administrator. Error Details: Unable to Associate Session Id with Active Sessions</td>
<td>There are no active sessions for the current user.</td>
</tr>
<tr>
<td>Unable to complete log off. If problem persists, please contact your Administrator. Error Details: Error communicating with Desktop Manager</td>
<td>This error occurs if when the Horizon DaaS Platform throws an exception.</td>
</tr>
<tr>
<td>The desktop &lt;x&gt;&lt;n&gt; is not in the list of entitled desktops</td>
<td>In this message, &lt;x&gt; is the application name you are attempting to launch and &lt;n&gt; is a number. This message indicates that you may be using an incompatible View Client and should reference the client’s release notes to confirm it supports Remote Application functionality.</td>
</tr>
</tbody>
</table>

### 5.2.3 Error Messages Associated with Password Changes

The following table lists the error messages a user can receive and the causes when attempting to change their password in the View Client.

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
</tr>
</thead>
<tbody>
<tr>
<td>Please Enter the Old Password and the New Password.</td>
<td>Some or all of the password fields are blank.</td>
</tr>
<tr>
<td>Provided Old Password is invalid, please try again.</td>
<td>If the password you logged in with is different from the &quot;Old Password&quot;.</td>
</tr>
</tbody>
</table>
Provided New Passwords do not match, please try again.

Please Enter a New Password that is different from the Old Password

Unable to Change Password. Please restart View Client and try again. Error Detail
<message from View Agent>

Note that the following character combinations cannot be used in View Client passwords:

<
>
<!—

&amp;

For example, none of the following passwords are supported:

Desktone<
Desktone>
Desktone<!—
Desktone&amp;
6 Known Limitations and Workarounds

6.1 General

- When logging in, you might see the Windows Security screen rather than your desktop. If this happens, set the registry key SoftwareSASGeneration on the VM to the value 2. The SoftwareSASGeneration registry key is in the following directory:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System
```

- You might see a pop-up indicating that the TPAutoConnect User Agent has crashed. TPAutoConnect is the VMware ThinPrint service. You can safely disable this service to suppress the error. However, disabling this service will not allow any locally attached printers to pass through and be used in the session.

- If you have disabled the ability to lock the workstation, black screen occurs for approximately 10 – 15 seconds after login.

- There can be up to a three minute delay between turning on USB Redirection and seeing an external storage device show up on the file system.

- When using a USB re-directed headset, the audio quality is choppy.

- When using two or more monitors:

  - Maximizing the PCoIP View Client window results in a black screen.
  
  - If the resolutions are different, the desktop with the lower resolution appears as a small piece of the desktop with the higher resolution and is unusable.

- When logging into a desktop using the View Client, the login screen can be displayed for a few seconds. You do not need to (and should not try to) enter your credentials again.

- The Android Mobile device client exits on Session Timeout and the user will need to re-launch the View Client to access their desktop.

- Users cannot see unmanaged desktops in the View Client. Unmanaged desktops appear only in the User Portal.

- The View Agent supports only copy/paste of text, you cannot copy/paste files or images.

- The View Client does not currently support hard drive redirection.

- Autoconnect functionality works only on PC and thin clients, not on mobile devices or Macs.

- Print jobs redirected from a Chrome browser print text with lower quality.
• On Android devices, after a user clicks reset desktop, the user is prompted to reenter their login credentials. After the user is re-authenticated, the desktop is then reset.

• By default, when the USB Autoconnect setting is enabled from the View Client, only USB devices plugged in after the connection to the VM is brokered will auto-connect. This is a limitation of the View Client, not the Horizon DaaS Platform. The workaround on a PC is as follows:
  a. Add the vdm_client.adm template file to the Local Computer Policy configuration. This template file is located on the system running the View Client in the following directory:
     C:\Program Files\VMware\VMware View\Client\extras
  b. Enable the "Connect all USB devices to the desktop on launch" policy.

• Some GPOs are ignored. Regardless of the GPO setting, users can do any of the following:

<table>
<thead>
<tr>
<th>Reset Desktop</th>
<th>Users can reset a Static desktop that has no active sessions or that has an active session attributed to that particular user.</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Autoconnect</td>
<td>Users can set the policy to turn on/off USB Auto Connect.</td>
</tr>
<tr>
<td>Log Off from Active Session</td>
<td>Users can choose to log off from the active session. They cannot, however, log off other users from the machine</td>
</tr>
<tr>
<td>Autoconnect to a Desktop</td>
<td>Users can auto connect to their desktop.</td>
</tr>
</tbody>
</table>

• PCoIP does not display video from a redirected USB Webcam.

• When streaming media over Mobile devices, there are more skipped frames and frame freezes.

• From a PC or Wyse P20, Flash media will have an audio lag of approximately .25 – .5 seconds.

### 6.2 HTML Access (Blast) Specific

• Internet Explorer version 9 users will have a sub-optimal experience; there is no audio, clipboard or full-screen support. Internet Explorer 10 or 11 is recommended. Newer versions of IE are not supported.

• An SSL certificate warning will be displayed upon connecting to the desktop. This is because the SSL certificate process was not performed correctly on a tenant gold pattern.

• Changing resolution to 2560x1920 ends the HTML Access session. This happens due to lack of vRAM allocation. For more information see [Estimating Memory Requirements for Virtual Desktops](#) in the View documentation.

• If your client system uses a super high resolution monitor (such as 2560 x 1600), HTML Access fails to display the desktop.
  Workaround: Lower the resolution on your monitor and connect. The resolution on the client monitor must be less than 2560 x 1600 if the remote desktop resolution is 1920 x 1200.

• Sound playback quality is best on browsers that have Web Audio API support, such as Chrome, Safari, and Firefox 25. Browsers that do not have this support include Internet Explorer (up to and including Internet Explorer 11) and Firefox 24 and earlier.

• Black artifacts appear on the screen on ESXi 5.1 or 5.0 hosts. This is a known HTML Access issue when the desktop HW version is 9 (ESX 5.0/5.1) with 3D disabled and the Windows 7 basic theme is used. This is not an issue when Aero is turned on or when the VM uses HW version 10 (ESX 5.5).
• View Agent session timeout may occur before the Desktop Portal session timeout, resulting in “Authentication error” connecting to the desktop via HTML Access. The workaround for this is to log out of Desktop Portal and log in again.

For additional known limitations, see Known Issues in the HTML Access Release Notes.
Note: You must follow this process on the gold pattern before converting the VM as a gold pattern or reseal.

Administrator can install the certificate using post sysprep script execution in order to avoid sysprep issues and duplicate certificate problems. Administrator should follow the guidelines below to configure post sysprep commands/scripts in the Horizon DaaS environment.

Administrators can use their own standard practice as well i.e. Active Directory GPO and scripts. Please read the Horizon View feature pack documentation for SSL certificate requirements.

Step 1: Import a certificate on test machine and note down the certificate thumbprint.

a. Import a SSL certificate

Follow the steps (1 to 3) mentioned in “Configure HTML Access Agents to Use New SSL Certificates” procedure from the Using HTML Access document.

b. Make a note of the thumbprint value.

i) In the certificate MMC window on the Horizon View desktop where the HTML Access Agent is installed, navigate to the Certificates (Local Computer) > Personal > Certificates folder.

ii) Double-click the CA-signed certificate that you imported into the Windows certificate store.

iii) In the Certificates dialog box, click the Details tab, scroll down, and select the Thumbprint icon.

iv) Copy the selected thumbprint to a text file.

For example:

31 2a 32 50 1a 0b 34 b1 65 46 13 a8 0a 5e f7 43 6e a9 2c 3e

Note: When you copy the thumbprint, do not to include the leading space. If you inadvertently paste the leading space with the thumbprint into the registry key (in Step 7), the certificate might not be configured successfully. This problem can occur even though the leading space is not displayed in the registry value text box.
Step 2: Create post sysprep script/batch file on gold pattern image and copy the certificate.

a. Windows 7 and later operating systems.

Use post build configuration script “SetupComplete.cmd” to import the SSL certificate and configure the VMware HTML Access registry.


For example:

- Copy the SSL certificate file under C: drive. For this example, the “C:\desktone_ca_cert” file.
- Create a file SetupComplete.cmd under “%WINDIR%\Setup\Scripts\” folder. Create “Scripts” folder if it does not exist.
- Add following commands in SetupComplete.cmd file. The thumbprint value is what you copied in Step 1.
- Note that if you have root certificate and intermediate certificates in the certificate chain, then you need to add appropriate CertUtil commands in batch file.

CertUtil -importPFX -f -p "<password>" "C:\desktone_ca_cert.pfx"
reg add "HKLM\SOFTWARE\VMware, Inc.\VMware Blast\Config" /f /v "SslHash" /t REG_SZ /d "31 2a 32 50 1a 0b 34 b1 65 46 13 a8 0a 5e f7 43 6e a9 2c 3e"
del /F /Q "C:\desktone_ca_cert.pfx"
del /F /Q "%systemroot%\setup\scripts\SetupComplete.cmd"
- Save the SetupComplete.cmd file. You can test the SetupComplete.cmd file on test machine.

b. Windows XP

- For windows XP, administrator should follow the Desktone post sysprep command execution approach to import the SSL certificate and configure the VMware HTML Access registry.
- Install the Administration Tools Pack for windows XP as CertUtil tool is not available with the OS install.


For example:

- Copy the SSL certificate file under C: drive. For this example, the “C:\desktone_ca_cert.pfx” file.
- Create a folder path “C:\Sysprep\i386\$OEM$”
- Now create “postprep-extra.bat” file under “C:\Sysprep\i386\$OEM$” and add following commands in batch file. The thumbprint value is what you copied in Step 1.
- Note that if you have root certificate and intermediate certificates in the certificate chain, then you need to add appropriate CertUtil commands in batch file.

CertUtil -importPFX -f -p "<password>" "C:\desktone_ca_cert.pfx"
del /F /Q "C:\desktone_ca_cert.pfx.pfx"
Horizon DaaS Platform 6.1 – VMware Desktop Protocols

reg add "HKLM\SOFTWARE\VMware, Inc.\VMware Blast\Config" /f /v "SslHash" /t REG_SZ /d "31 2a 32 50 1a 0b 34 b1 65 46 13 a8 0a 5e f7 43 6e a9 2c 3e"

○ Save the postprep-extra.bat file. You don’t need a command to delete the batch “postprep-extra.bat” file as sysprep deletes the C:\Sysprep folder after successful deployment.

○ You can test the SetupComplete.cmd file on test machine.

Step 3: Convert this image as a gold pattern or reseal, and create a pool. Verify the HTML Access connection for certificate, or check certificates and HTML Access registry on desktops.

Note: If the HTML Access (Blast) service generates the self-signed certificate even after you set the valid CA certificate as described above, then you can troubleshoot this issue by looking at the logs located here: %ProgramData%\VMware\Vmware Blast\Blast-worker.txt