

# Windows Agent Deployment on VMware Horizon Mirage Desktop

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EventTracker

Publication Date: Mar 7, 2014

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## Abstract

This document describes how to deploy Event Tracker Windows Agent on VMware Horizon Mirage Desktop.

## Target Audience

EventTracker users who wish to deploy Event Tracker Windows Agent on VMware Horizon Mirage Desktop.

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# About VMware Horizon Mirage

VMware Horizon Mirage is a desktop management tool for centrally managing physical and virtual desktops images.

VMware Horizon Mirage provides single image management for desktop images, including the operating system, user data and user-installed applications. The tool isolates different layers of the desktop environment, allowing administrators to update specific layers without affecting others. Synchronization technology in Mirage ensures that every change a user makes to his desktop is backed up to a centralized Mirage server.

## Prerequisites

- **Prerequisites for Deploying Event Tracker Agent on VMware Horizon Mirage Desktop.**
  - ❖ VMware Horizon Mirage server should be installed on Windows 2008 server operating system.
  - ❖ VMware Mirage Client should be installed on Windows 7 (32/64) bit, Windows 8 OS – client version.

## Prepare reference machine

A reference machine is used to create a Base Layer for a set of endpoints. After the reference machine is built and configured, the installed Mirage Client efficiently uploads its content to an assigned reference Centralized Virtual Device (CVD). The reference CVD is then used to capture a Base Layer.

The reference machine used for App Layer capture does not generally require advance preparation. Certain guidelines apply for special circumstances. A Base Layer does not have to be present on the machine.

To assign a pending device as a reference CVD:

1. In the Mirage Management Console, select **Inventory** node, and then select **Pending Devices**.

The Mirage Clients awaiting activation (pending) are listed on the right side of the MMC window.

2. Right-click the reference machine to be assigned, and then select **Create a new Reference CVD**.

Select Upload Policy window appears.

3. Select the required upload policy, and then select the **Next** button.

Select a Base Layer window appears.

4. Select **Maintain Current Base Layer**.

As this is a first-time use, there is no existing Base Layer. In future, you can select an existing Base Layer to apply updates and modify content.

5. Select the **Next** button.

The Select Target Volume window appears.

6. Specify whether you want to automatically choose a volume or to select one manually. Select the **Next** button.

The Activate Device – Summary window appears.

7. Select the **Finish** button.

The device is moved from the Pending Devices list to the Reference CVDs view.

## Capture Base Layers

After a reference machine is set up with what the Base Layer should contain, the Administrator can prepare to capture the Base Layer from the reference machine to enable updating endpoints with that Base Layer.

1. To capture a Base Layer in the Mirage Management Console, select **Common Wizards**, then select **Capture Base Layer**.

Select Capture Type window opens.

2. **Use an existing reference CVD** or **Create a new reference CVD** option.

3. If **Create a new reference CVD:** option is selected, then **Select the pending device you want to use**, and then select the **Next** button.
4. If **Use an existing reference CVD:** option is selected, then **select the reference CVD from which you want to capture the Base Layer**, and then select the **Next** button.  
Capture Base Layer window opens.
5. Select **Create a new layer** and specify the new Base Layer details.  
  
(OR)  
  
**Update an existing layer** and select the Base Layer to update.
6. Select the **Next** button.  
  
A validation window appears which checks the reference machine for possible problems.
7. If problems are reported, fix them and then click the **Refresh** button to see if they are resolved.
8. After the problems are resolved, click **Next**.  
  
A Summary window opens.
9. Click **Finish** to start the capture process.

## Capture Application layer

Any CVD can be used as the reference CVD for App Layer purposes. A Base Layer does not need to be present on the reference machine.

The App Layer Capture process involves three stages:

- ❖ **Part 1 – Start App Layer Capture.** This part performs a 'Pre-scan' that creates a 'Before' image of the reference machine before the required applications are installed.
- ❖ **Part 2 – Application Installation.** **Event Tracker Windows Agent** is then installed by the Administrator on the reference machine that was selected in Part 1.
- ❖ **Part 3 – Finalize the App Layer Capture.** This part performs a 'Post-scan' that creates a 'After' image of the reference machine, after the required applications are installed. It then detects all changes following the installation and starts the Capture process.

## Part 1 – Start App Layer Capture

1. In the Mirage Management Console, select **Common Wizards**, then **Capture Layer**.  
Select a Pending Device window displays.
2. Select the pending device from which you want to capture an App Layer and then select the **Next** button.  
Select Upload Policy window appears.
3. Select the required upload policy and then select the **Next** button.  
A validation window appears which checks the reference machine for possible problems. Follow the on-screen instructions to remove any validation warnings or errors.
4. Select the **Next** button.  
A Summary window opens.
5. Click **Finish** to start the Pre-scan capture process.  
A message is displayed asking if you want to switch to the task list view.
6. If you want to follow the capture task, click **Yes**.  
The console view changes to the Task list, where you can monitor the progress of the capture task.
7. When the task is complete, the App Layer is moved to the App Layers list under the **Image Composer** node.  
The Pre-scan processing starts. A progress window shows the Pre-Install State Capture progress. Balloon pop-ups advise the process stage.
8. When the 'finished capturing pre-installation system state' balloon popup appears, you can continue to Part 2.

## Part 2 – Application Installation

1. You now install all the **Event Tracker Agent** required to be captured for the App Layer on the reference machine that was selected in Part 1.
2. The CVD remains in a 'recording' mode until Part 3 processing is started, which signals that application installations were completed.
3. After all the Event Tracker is installed you can proceed to Part 3.

## Part 3 – Finalize App Layer Capture

1. In a Reference CVD view, select the same reference CVD as in Part 1, right-click and select **Finalize App layer capture**.

The Review Recorded Applications list displays, where you will review the applications to be captured.

2. Select the **Next** button.
3. Select **EventTracker Agent**.

The Capture App Layer window displays.

4. Select **Create a new layer** or **Update an existing layer**.

A Validations screen displays. Follow the on-screen instructions to remove any validation warnings or errors.

5. Select the **Next** button.

A Summary screen opens.

6. Select the **Finish** button to start the capture conclusion processing.

## Assign Base Layer and Base layer provisioning

1. To assign (update) a Base Layer to a CVD in the Mirage Management Console, select **Common Wizards**, and then select **Assign Base Layer**.
2. In the **Select CVDs or Collections** window, choose the CVDs you want to update and click **Select**.



3. In the Select Base Layer window, choose the Base Layer with which you want to update the CVDs.
4. In **Summary** window, click **Finish**.  
An update task is created.

## Assign a pending device using Base Layer Provisioning

1. In the Mirage Management Console, select the **Common Wizards** node, and then select **Base Layer Provisioning**.  
The Select Layer window displays.
2. Select the layer that you want to provision with.  
Select Pending Device window displays.
3. Select the device or devices you want to assign.  
Select Upload Policy window displays.
4. Select the upload policy you want to use and then select the **Next** button.  
The Target Machine Name window displays.
5. Select the device name and set the domain.  
The Image Validation window displays.
6. Select **Next**, and then select the **Finish** button.

## Assign Application layer

**Overview:** After App Layer Capture is completed, the revised App Layer can be distributed to each endpoint desktop, then applied (assigned) at each endpoint.

➤ **To update (assign) an App Layer to a CVD:**

1. In the Mirage Management Console, select **Common Wizards**, and then click **Update App Layer**.
2. In Select CVDs or Collections window, choose the CVDs you want to update and click **Select**.

3. Select **individual** or **multiple CVDs**, or a **collection** from the **Collections** tab.
4. Select **CVD details** in the bottom pane, select the **Next** button.
5. In the **Select App Layer** window, choose the App Layers with which you want to update the CVDs. You can see the App Layer details in the bottom pane.
6. Select a layer in the **Available Layers** pane, and select Right arrow to move it to the **Assigned Layers** pane. (To remove a layer, select it in the **Assigned Layers** pane and select the Left arrow.)

The validation page appears.

7. In the **Summary** window, click **Finish**.

An update task is created. The Mirage Client, as part of its regular processing, periodically checks the Server for updates to download.