

# Citrix SCOM Management Pack for XenApp 6.x Provisioned XenApp Server Deployment Guide



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This document provides instructions for installing Microsoft System Center Operations Manager agent (**SCOM agent**, also referred to as *Operations Agent* or *Microsoft Monitoring Agent*) and the agent of Citrix SCOM Management Pack for XenApp 6.x (**XenApp Management Pack Agent**) onto a Citrix XenApp server golden master image (vDisk) that is used for provisioning XenApp servers. The document should be used in conjunction with Citrix Provisioning Services documentation and Citrix XenApp 6.x documentation.

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## Section 1: Introduction

To monitor Citrix XenApp (**XenApp**) servers that are provisioned with Citrix Provisioning Services (**Provisioning Services**), SCOM agent and XenApp Management Pack Agent must be installed onto a XenApp server golden master image (a Provisioning Services vDisk, also referred to simply as **vDisk**).

### General prerequisites

Before you begin, ensure the following general prerequisites are fulfilled:

- For each XenApp server computer provisioned through Provisioning Services, a small persistent vDisk is configured. This is where the XenApp server computer stores its local data.
- In the SCOM Operations console, in the **Administration** view, the Manual Agent Installs option (in the **Administration > Settings > Server > Security** context) is set to **Review new manual agent installations in pending management view.** , while the **Automatically approve new manually installed agents** option is not selected.

### Deployment process

The process consists of three phases:

1. Installation of SCOM agent onto the vDisk.
2. Installation of XenApp Management Pack Agent onto the vDisk.
3. Adjustment to configuration of deployed SCOM agent instances.

## Section 2: Installing SCOM agent onto the vDisk

### Prerequisites

Before you install SCOM agent onto the vDisk, make sure the following prerequisites are fulfilled:

- A folder for maintaining state data of the SCOM agent service (`HealthService`) exists on the persistent vDisk. For example, the path to the folder is `P:\System Center Operations Manager\Agent\Health Service State`.

You can create the folder by using a script, by applying the appropriate policy with the Local Group Policy Editor tool, or manually.

- The Action Account of SCOM agent has administrative privileges on the master device (XenApp server computer that is started from the vDisk).

This prerequisite enables invocations of SCOM tasks provided by XenApp Management Pack, once the product is deployed.

### SCOM agent installation procedure

Do the following:

1. Install SCOM agent onto the vDisk. During installation:
  - Leave the **Connect the agent to System Center Operations Manager** option selected.
  - Provide the Setup Wizard with the Operations Manager management group name.
2. On the master device, stop the SCOM agent (`HealthService`).
3. Start Microsoft Management Console and add the Certificates snap-in for computer account certificate management into it.
4. In the left pane of Microsoft Management Console, expand **Certificates (Local Computer) > Operations Manager** and click **Certificates**.
5. To remove the SCOM agent certificate, in the middle pane, right-click the fully qualified domain name of the computer, and select **Delete**.
6. Start Registry Editor and set the value of the `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\HealthService\Parameters\State Directory` key to the path of the folder for storing SCOM agent service state.
7. Capture the vDisk and assign it to your PVS target devices.

8. Restart the master device.
9. Start the SCOM Operations console and open the **Administration** view.
10. In the **Administration > Device Management > Pending Management** context, approve XenApp servers: for each XenApp server, right-click its entry in the Pending Management list, select **Approve**, and follow instructions in the dialog box.

## Section 3: Installing XenApp Management Pack Agent onto the vDisk

### Prerequisites

Before you install XenApp Management Pack Agent onto the vDisk, make sure the following prerequisites are fulfilled:

- SCOM agent is installed on the vDisk.
- The server-side part of XenApp Management Pack is installed on the computer that hosts SCOM management server.

### XenApp Management Pack Agent installation procedure

Do the following:

1. Set the vDisk to private image mode, and boot a target device using the vDisk. For instructions, see the Citrix Provisioning Services documentation.
2. Install the XenApp Management Pack Agent onto the vDisk manually (not by using a SCOM task). Follow the steps:
  - a. On the SCOM management server computer, locate the `MPXAAgent.exe` file in the `%SystemDrive%\ProgramData\Citrix\CitrixMPShare\XenApp MP` directory. Copy the file to a location on the vDisk.
  - b. On the master device, in Windows Explorer, double-click the `MPXAAgent.exe` file to invoke the installation process.
  - c. Follow instructions of the Setup Wizard and conclude the installation process.
  - d. Provide information about XenApp farm administrator accounts to XenApp Management Pack. For instructions, see "Providing information about XenApp farm administrator accounts" in the *Citrix SCOM Management Pack for XenApp 6.x User Guide*.

Actions you take in this step update the `xamp_config.dat` file on the SCOM management server computer. You will need this file in the next step.

- e. Copy the `xamp_config.dat` file from the `%SystemDrive%\ProgramData\Citrix\CitrixMPShare\XenApp MP` directory on the SCOM management server computer into the `%ProgramData%\Citrix\XenApp MP Agent` directory on the vDisk.
3. Reseal the vDisk. For instructions, see the Citrix XenApp documentation.  
This action is needed in order for the XenApp server computers to be able to join the XenApp farm after a system restart.
  4. Restart each XenApp server computer.

## Section 4: Adjusting SCOM agent configuration

### Prerequisites

Before adjusting configuration of the SCOM agent instances that were deployed by using the vDisk, make sure the following prerequisites are fulfilled:

- XenApp Management Pack Agent installed on the vDisk.
- The `xamp_config.dat` file is present on the vDisk in the `%ProgramData%\Citrix\XenApp MP Agent` folder.
- The vDisk is resealed.

### SCOM Agent configuration adjustment procedure

For each XenApp server computer (PVS target device), do the following:

1. Check that the XenApp server computer is joined to the XenApp farm and that the SCOM agent instance on this computer is registered with SCOM.
2. Configure SCOM agent on XenApp server computer to act as a proxy agent:
  - a. Start the SCOM Operations console and open the **Administration** view.
  - b. Go to **Administration > Device Management > Agent Managed**.
  - c. Right-click the XenApp server computer, select **Properties**, and then click the **Security** tab.

- d. Select the **Allow this agent to act as proxy and discover managed objects on other computers** option and click **OK** to apply the configuration change.

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**Tip** You can use Windows PowerShell to automate this step.

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