

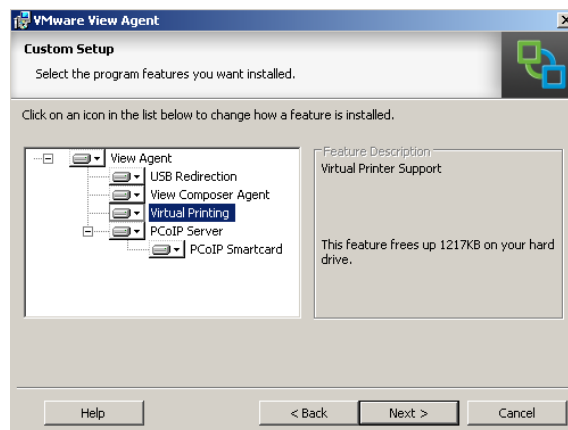
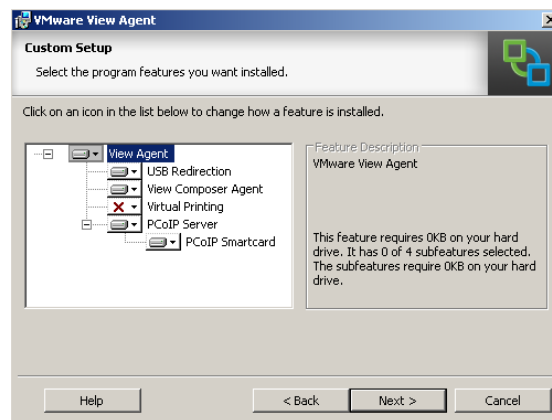
How to Setup Location Based Printing on a Zero Client.

Note:

These instructions are intended for a Zero Client environment only. If you are running a mixed environment of Soft Clients and Hard Clients please be aware that disabling the virtual channels (step 4) may have a negative impact to your Soft Client users. **This solution should not be used if Smart Cards are used for authentication, as they will no longer work.**

Step 1: Reinstall Agent

If you followed the optimization guide when you first setup your VMWare View environment you were told to disable Virtual Printing in a Zero Client environment. This was recommended because ThinPrint was not supported in a Zero Client environment and therefore CPU cycles were wasted by enabling this feature. With VMWare View 4.5 and later Location Based Printing is supported, so the Virtual Printer component is needed. To enable this re-run the View Agent installer, select Modify and change the Virtual Printing setting, as seen below.

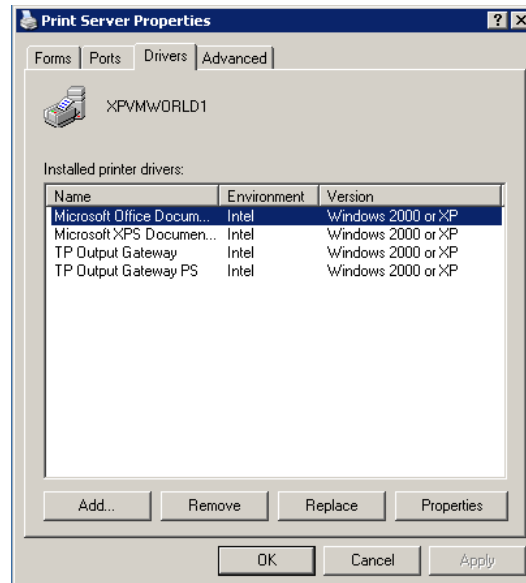


Step 2: Install the Print Driver

The printer driver needs to be installed on the VM, to do this we need to install the print driver into the OS.

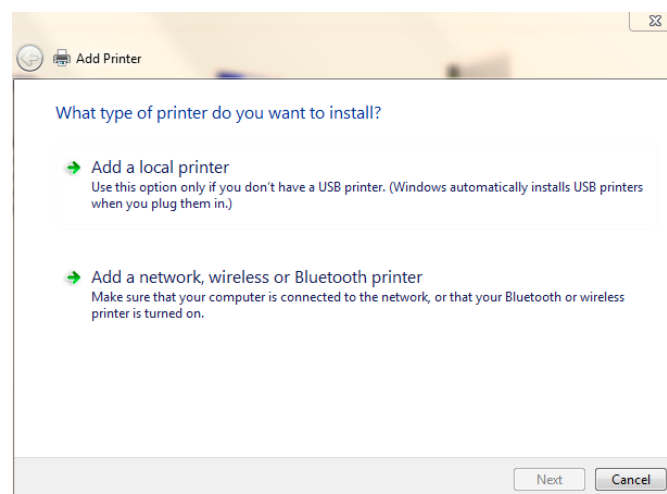
Windows XP:

To install a print driver on Windows XP open Printers and Faxes, right click anywhere in the white space and go to Server Properties. From there choose the Drivers tab and select Add. Follow the wizard to add the driver you need.



Windows 7:

Server Properties is not available on Windows 7 instead you have to install the driver by going through the Add Printer Wizard. Select Local Printer, and add the printer driver once you get to the screen that asks about which driver you'd like to choose.



Step 3: Setup DLL on Domain Controller

In this step we will be registering a DLL, adding an ADM file to Group Policy, and configuring the Group Policy itself. These files enable additional features in Group Policy that allow Location Based Printing to work.

Register the Location-Based Printing Group Policy DLL File

Please review "Setting Up Location-Based Printing" in the latest VMware View administration guide for complete details

Before you can configure the group policy setting for location-based printing, you must register the DLL file TPVMGPoACmap.dll. VMWare provides 32-bit and 64-bit versions of TPVMGPoACmap.dll file on your View Connection Server.

install_directory\VMware\VMware View\Server\Extras\GroupPolicyFiles\ThinPrint

Procedure:

1. Copy the appropriate version of TPVMGPoACmap.dll to your Active Directory server or to the domain computer that you use to configure group policies.
2. Use the regsvr32 utility to register the TPVMGPoACmap.dll file.
 - a. For example: regsvr32 "C:\TPVMGPoACmap.dll"

Step 4: Setup Group Policy

Add PCoIP ADM Templates to a GPO

Please review "Add View ADM Templates to a GPO" in the latest VMware View administration guide for complete details

To apply View component group policy settings to your View desktops, add their ADM template files to GPOs.

Prerequisites

- Create GPOs for the View component group policy settings and link them to the OU that contains your View desktops.
- Verify that the Microsoft MMC and the Group Policy Object Editor snap-in are available on your Active Directory server.

Procedure

1. Copy the View component ADM Template files from the `install_directory\VMware\VMware View\Server\Extras\GroupPolicyFiles\pcoip.adm` directory on your View Connection Server host to your Active Directory server.
2. On your Active Directory server, select Start > All Programs > Administrative Tools > Active Directory Users and Computers.
3. Right-click the OU that contains your View desktops and select Properties.
4. On the Group Policy tab, click Open to open the Group Policy Management plug-in.
5. In the right pane, right-click the GPO that you created for the group policy settings and select Edit.
 - a. The Group Policy Object Editor window appears.
6. In the Group Policy Object Editor, right-click Administrative Templates under Computer Configuration and then select Add/Remove Templates.
7. Click Add, browse to the ADM Template file, and click Open.
8. Click Close to apply the policy settings in the ADM Template file to the GPO.
 - a. The name of the template appears in the left pane under Administrative Templates.
9. Configure the group policy settings.

Enable Loopback Processing for View Desktops

Please review "Add View ADM Templates to a GPO" in the latest VMware View administration guide for complete details

To make User Configuration settings that usually apply to a computer apply to all of the users that log in to that computer, enable loopback processing.

Prerequisites

- Create GPOs for the View component group policy settings and link them to the OU that contains your View desktops.
- Verify that the Microsoft MMC and the Group Policy Object Editor snap-in are available on your Active Directory server.

Procedure

1. On your Active Directory server, select Start > All Programs > Administrative Tools > Active Directory Users and Computers.
2. Right-click the OU that contains your View desktops and select Properties.
3. On the Group Policy tab, click Open to open the Group Policy Management plug-in.
4. In the right pane, right-click the GPO that you created for the group policy settings and select Edit.
 - a. The Group Policy Object Editor window appears.
5. Expand the Computer Configuration folder and then expand the Administrative Templates, System, and Group Policy folders.
6. In the right pane, right-click User Group Policy loopback processing mode and select Properties.
7. On the Setting tab, select Enabled and then select a loopback processing mode from the Mode drop-down menu.
8. Click OK to save your changes.

Disable Virtual Channels for View Desktops

To make Location Based Printing work on Zero Clients, disable Virtual Channels.

Prerequisites

- Create GPOs for the View component group policy settings and link them to the OU that contains your View desktops.
- Verify that the Microsoft MMC and the Group Policy Object Editor snap-in are available on your Active Directory server.

Procedure

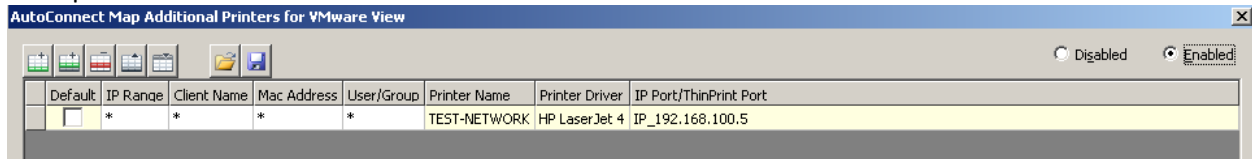
1. On your Active Directory server, select Start > All Programs > Administrative Tools > Active Directory Users and Computers.
2. Right-click the OU that contains your View desktops and select Properties.
3. On the Group Policy tab, click Open to open the Group Policy Management plug-in.
4. In the right pane, right-click the GPO that you created for the group policy settings and select Edit.
 - a. The Group Policy Object Editor window appears.
5. Expand the Computer Configuration folder and then expand the Administrative Templates, PCoIP Session Variables, and Overridable Administrator Defaults folders.
6. In the right pane, right-click Configure PCoIP virtual channels and select Properties.
7. On the Setting tab, select Enabled and then check the box Disable virtual channels in PCoIP sessions.
8. Click OK to save your changes.

Setup AutoConnect Map Additional Printers

Please review "Configure the Location-Based Printing Group Policy" in the latest VMware View administration guide for complete details

To get details on how this works please read the VMWare View Administrator's Guide. However below you can find a quick screen shot how how to setup a printer to connect to All IP Ranges, All Client Names, All Mac Addresses, and All User Group. The Printer Name will be TEST-NETWORK, it will use the HP LaserJet 4 driver (which was installed in Step 2), and it will connect on the IP address of 192.168.100.5

Example:



Default	IP Range	Client Name	Mac Address	User/Group	Printer Name	Printer Driver	IP Port/ThinPrint Port
<input type="checkbox"/>	*	*	*	*	TEST-NETWORK	HP LaserJet 4	IP_192.168.100.5

Important

Print Driver is Case Sensitive (and space sensitive) the driver name must match the driver name from the VM exactly as it appears on the VM. This may mean if you have one network printer and use it from both XP and Windows 7, you may need to setup multiple mappings to the same printer.