

Microsoft® Virtual Labs

**Learning to Configure App-V for
Standalone Client Mode**

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Learning to Configure App-V for Standalone Client Mode

Objectives

After completing this lab, you will be better able to:

- Configure a client for stand-alone mode
- App-V Integration with AppLocker

Scenario

In this lab, you will configure a client for stand-alone mode in order to deliver applications using MSI files. You will also learn how App-V integrates with AppLocker to provide additional controls when deploying virtual applications via SCCM or another Electronic Software Distribution (ESD) system.

Estimated Time to Complete This Lab

30 Minutes

Computers used in this Lab



MDOPSERVER1



MDOPCLIENT1


The password for the Administrator account on all computers in this lab is:
Pa\$\$w0rd.

Exercise 1

Configure a client for stand-alone mode

Scenario

In this exercise you will demonstrate how to configure an App-V client for stand-alone mode to receive App-V packages using MSI. In Stand Alone mode, virtual applications can be delivered to clients via removable media or an Electronic Software Distribution system.

Tasks	Detailed Steps
<p>Complete the following tasks on:</p>  MDOPCLIENT1 <ol style="list-style-type: none"> Run a script to configure the App-V Client for stand-alone delivery. 	<p>Note: Perform the following on MDOPCLIENT1 as MDOPAdmin with Pa\$\$w0rd</p> <p>These settings allow virtual applications to be delivered to clients via removable media or an Electronic Software Distribution system.</p> <p>These settings can be managed via GPO using the App-V ADM policy template.</p> <p>Right click on the Desktop on the MDOPClient1 machine, and select Screen Resolution. Click on the Resolution drop down. Select 1024x768 and click OK. In the Display Settings prompt. Click Keep Changes.</p> <ol style="list-style-type: none"> Run C:\DemoFiles\Scripts\ToStandAlone.cmd The settings in the script are listed below for your information: <p>Note: <code>AllowIndependentFileStreaming=1</code> Allows streaming via the FILE:// protocol.</p> <p><code>RequireAuthorizationIfCached=0</code> Allows an application to launch without contacting a server. The application needs to be already in cache.</p> <p><code>ApplicationSourceRoot=<blank></code></p> <p><code>OSDSourceRoot=<blank></code></p> <p><code>IconSourceRoot=<blank></code></p> <p>The client should not be redirected to find package files. The MSI delivers all the required files</p> <p><code>Online=0</code> Client is offline and will not spend cycles searching for a server.</p> <p><code>AllowDisconnectedOperation=1</code> Client is allowed to work offline without server connection.</p> <p><code>DOTimeoutMinutes=0xFFFFFFFF</code> Client can remain offline indefinitely</p> <p><code>ToggleOfflineMode=0</code> Do not allow normal users to switch the client back to Online.</p>
<ol style="list-style-type: none"> Launch Microsoft_PowerPoint_Viewer_2007.msi. 	<p>Note: The MSI is created as part of the App-V Sequencer output.</p> <ol style="list-style-type: none"> Browse to <code>\\mdopserver1\content\Microsoft_PowerPoint_Viewer_2007</code> and launch Microsoft_PowerPoint_Viewer_2007.msi Click Next, then click Close at completion.
<ol style="list-style-type: none"> Launch PowerPoint Viewer. 	<ol style="list-style-type: none"> Launch Start All Programs Office Viewers\Microsoft Office PowerPoint Viewer. In the Open dialog, browse to <code>\\mdopserver1\DemoFiles\SampleFiles\</code> and double-click Optimized Desktop.ppt


Tasks	Detailed Steps
	<p>c. The document opens in PowerPoint Viewer, press <ESC> to exit full screen mode and then click Cancel to close PowerPoint Viewer.</p>
<p>4. In Control Panel Programs and Features, uninstall the PowerPoint Viewer package.</p>	<p>Note: MSI delivered virtual applications will appear in Programs and features and can be repaired or uninstalled. <i>Uninstall also removes the application from the App-V cache.</i></p> <p>a. Click Start Control Panel.</p> <p>b. Change the View by: from Category to Large icons.</p> <p>c. Select Programs and Features</p> <p>d. Select Microsoft_Powerpoint_Viewer_2007 and click Uninstall.</p> <p>e. Click Yes to confirm.</p> <p>f. Show that PowerPoint Viewer is no longer on the Start Menu.</p> <p>Note: The next scenario will also use standalone mode. If you need to reset the App-V client to full mode for a previous exercise, you can either: <i>Run C:\DemoFiles\Scripts\ToFull.cmd</i> <i>Revert the virtual machine.</i></p>

Exercise 2

App-V Integration with AppLocker

Scenario

AppLocker is a new feature of Windows7 that allows administrators to define policies that can allow or deny a user’s ability to run or install executable, MSI, or script files. Microsoft Application Virtualization (App-V) separates the application from the operating system preventing application conflicts and enabling the ability to run multiple versions of an application of the same desktop. Virtual applications can be delivered in many ways – streaming by assigning applications to user, delivering to machines via Configuration Manager or by using file streaming from removable media. Using App-V and AppLocker together ensures that no matter how the application is delivered or what format it takes, physical or virtual, it will respect the policies defined by IT.

Tasks	Detailed Steps
<p>Complete the following tasks on:</p>  <p>MDOPClient1</p> <p>1. Assign the AppLocker group policy using default rules.</p>	<p>Note: Perform the following on MDOPClient1 as MDOPAdmin with Pa\$\$w0rd. The default policy rules allow Admins to run any MSI or EXE. Users can only run signed MSIs or MSIs in the Windows\Installer directory. Users can run EXEs from Program Files and the Windows Directory.</p> <ol style="list-style-type: none"> Click Start Administrative Tools Group Policy Management. Expand Forest:mdopdemo.net Domains mdopdemo.net Right click the MDOP OU and select Link an Existing GPO then select AppLockerBitlocker and click OK. From a Command Prompt, run gpupdate /force to refresh the policy. To install XML Notepad, launch \\MDOPSERVER1\Content\Microsoft_XMLNotepad_2007\Microsoft_XMLNotepad_2007.msi Click Next, then click Close at completion. <p>Note: Administrators can launch any MSI.</p> <ol style="list-style-type: none"> Launch XML Notepad 2007 using the Desktop shortcut. <p>Note: Administrators can launch any EXE. Virtual applications launch from the App-V virtual drive which by default is the letter Q.</p>
<p>2. Attempt to launch virtual application XML Notepad.</p>	<p>Note: Perform the following on MDOPClient1 as MDOPUser with Pa\$\$w0rd. The default policy rules do not allow EXEs from the Q drive.</p> <ol style="list-style-type: none"> Log on as MDOPUser with Pa\$\$w0rd. Launch XML Notepad 2007 using the Desktop shortcut. Click OK to the message indicating that you are blocked by policy. Launch Notepad.exe and Calculator.exe. Users can launch EXEs from the Windows directory.
<p>3. Open Group Policy Management.</p>	<p>Note: Perform the following on MDOPClient1 as MDOPAdmin with Pa\$\$w0rd. AppLocker allows for more sophisticated rules that can target specific users and more specific paths. App-V respects the rules defined within AppLocker giving IT a single, simple solution to define application policies for both physical and virtual applications.</p>

Tasks	Detailed Steps
	<p>a. Log on as MDOPAdmin with Pa\$\$w0rd.</p> <p>b. Start Administrative Tools Group Policy Management and expand Forest:mdopdemo.net Domains mdopdemo.net Group Policy Objects</p> <p>c. Right click AppLockerBitlocker and click Edit.</p> <p>d. Expand Computer Configuration\Policies\Windows Settings\Security Settings\Application Control Policies\AppLocker and select Executable Rules.</p> <p>e. Right click Executable Rules and select Create New Rule.</p> <p>Note: <i>If necessary, change the screen resolution to 1024x768 so see the next button.</i></p> <p>f. Click Next.</p> <p>g. Click Next to Allow Everyone.</p> <p>h. Select Path and then click Next.</p> <p>i. Type Q:* in the Path: field and then click Next.</p> <p>j. Click Next to skip adding exceptions.</p> <p>k. In the Description field, type Allow App-V then click Create.</p> <p>l. Close the Group Policy Management Editor.</p> <p>m. From a Command Prompt, run gpupdate /force to refresh the policy.</p>
<p>4. Launch XML Notepad.</p>	<p>Note: <i>Perform the following on MDOPClient1 as MDOPUser with Pa\$\$w0rd.</i></p> <p>a. Log on as MDOPUser with Pa\$\$w0rd</p> <p>b. Launch XML Notepad.</p> <p>c. This time you are successful.</p> <p>Note: <i>The lab is complete.</i></p>