

Confirm ®

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July 27, 2022

Table of Contents

Microsoft App-V

Microsoft App-V 6

Microsoft App-V

Overview

This document explains the steps to deploy Confirm Client as Microsoft App-V Package.

In this section

Microsoft App-V

6

Microsoft App-V

Overview

Microsoft Application Virtualization (App-V) is an application virtualization solution from Microsoft. It helps businesses to provide their end users with access to virtually any application, anywhere without installing applications directly on their computers. Here we will follow these three basic steps for the virtualization of Confirm Client application.

- 1. Install the Microsoft App-V Sequencer on a computer.
- 2. Use the Microsoft App-V sequencer to create virtual application package of Confirm Client.
- 3. Deploy the virtual package on Microsoft App-V Client.

This document covers setting up the Sequencer workstation, walkthrough to create virtual application for Confirm Client, and walkthrough to deploy the package, using Microsoft App-V.

App-V Package Creation

App-V Sequencer

The App-V Sequencer is a component of the App-V suite used to convert standard applications into virtual packages for deployment to computers running the App-V Client. It analyses the application for the resources that it requires and creates the system guard runtime environment that it will require. Most importantly, the sequencer translates file and registry references into user, machine, and operating system neutral references.

Prerequisites for App-V Sequencer Workstation

Follow the link for information. http://technet.microsoft.com/en-US/library/jj713458.aspx

Prerequisites for Confirm Client

- Visual C++ 2013 x86 / x64
- Visual C++ 2015 x86 / x64
- MapXtreme Redistributable

Install App-V Sequencer

- Pre Windows 10 http://technet.microsoft.com/en-us/library/jj713464.aspx
- Windows 10 https://docs.microsoft.com/en-us/windows/application-management/app-v/appvgetting-started

Package Creation Walkthrough

This section outlines the sequencing process of Confirm Client application.

Start Microsoft App-V Sequencer

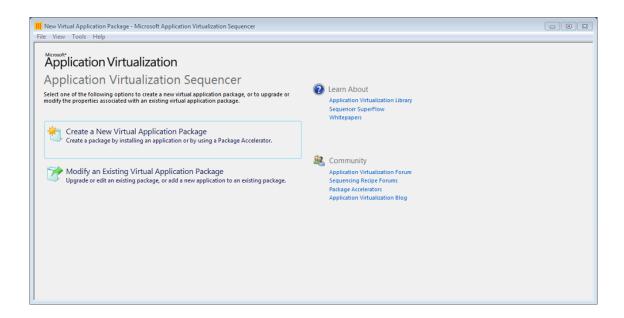
Launch 'Microsoft Application Virtualization Sequencer' from 'Start' menu.

Microsoft App-V

Microsoft Application Virtualization Sequencer	
	PBUser
	Documents
	Pictures
	Music
	Computer
	Control Panel
	Devices and Printers
	Default Programs
	Help and Support
All Programs	
Search programs and files	Shut down 🕨

Welcome Screen

Select 'Create a New Virtual Application Package' to create a new virtual application package.



Packaging Method

Select 'Create Package' option to create a new package.

How Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	襸 Packaging N	Method	
Application Vi Select one of the following op modify the properties associat Create a New Vi Create a package by i Modify an Existin Upgrade or edit an ex	Packaging Method Prepare Computer Type of Application Select Installer Package Name Installation Configure Software Installation Report Customize Create Package Completion	Select the method for creating a package. Image: Select the method for creating an application on this computer while App-V monitors the installation. Image: Select the method for creating an application on this computer while App-V monitors the installation. Image: Select the method for creating an application on this computer while App-V monitors the installation. Image: Select the method for creating an application on this computer while App-V monitors the installation. Image: Select the method for creating an application on this computer while App-V monitors the installation. Image: Select the method for creating an application package Accelerator. Package Accelerator uses application setup files to create a virtual application package automatically. Image: Select the method for creating and the select th	

Prepare Computer

This process examines and prompts for any running processes that might prevent successful sequencing.

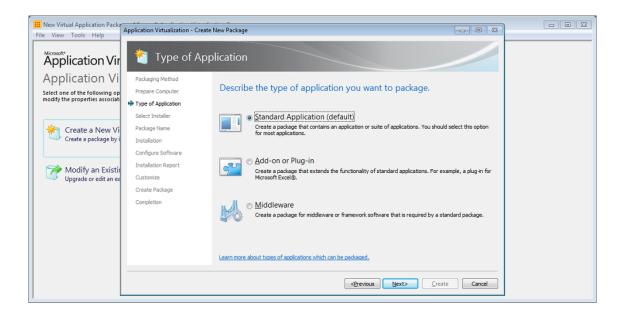
III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package		
Application Vir	衛 Prepare Co	mputer		
Application Vi	Packaging Method			
Select one of the following op modify the properties associate	Prepare Computer Type of Application	Prepare the computer for creating a virtual p	_	
	Select Installer	Description Issues that may corrupt the package or add extraneous data (1)	Resolution	
🔶 Create a New Vi	Package Name	C issues that may corrupt the package or and extraheous data (1)	Stop these before continuing.	
Create a package by i	Installation Configure Software			
Modify an Existi	Installation Report			
Upgrade or edit an ex	Customize Create Package			
	Completion			
		Refresh		
		Learn more about preparing your computer.		
		< <u>Previous</u>	Next> Create Cancel]

Stop all the running processes to continue creating the package. Click 'Refresh' button.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	🍵 Prepare Cor	nputer	
Application Vi			
Select one of the following op	Prepare Computer	Prepare the computer for creating a virtual package.	
modify the properties associate	Type of Application	Your system is ready to create a virtual package, no issues were detected. Click Next to continue.	
	Select Installer		
🔶 Create a New Vi	Package Name		
Create a package by i	Installation		
	Configure Software		
Modify an Existin	Installation Report		
Upgrade or edit an ex	Customize Create Package		
	Completion		
	Compression		
		Refresh	
		Learn more about preparing your computer.	
		< <u>Previous</u> <u>N</u> ext> <u>Create</u> Cancel	

Type of Application

Select 'Standard Application' to continue creating the package.



Select Installer

Select 'Confirm MapXtreme' installer file to have the sequencing wizard automatically launch the installer wizard.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	🍵 Select Insta	ller	
Application Vi Select one of the following op modify the properties associat	Packaging Method Prepare Computer Type of Application	Select Installer	
🔆 Create a New Vi	Select Installer	Select the installer for the application. Select the installer for the application.	
Create a package by i	Installation Configure Software	Perform a custom installation. I choose not to select an installer in this step. I will manually select and run all files during Installation.	
Modify an Existin Upgrade or edit an ex	Installation Report Customize Create Package		
	Completion		
		Learn more about installation options.	
		<previous next=""> Create Cancel</previous>	

Package Name

Specify unique name for the package under 'Virtual Application Package Name'. This name is independent of the 'Primary Virtual Application Directory'. This name will identify the virtual application package in the App-V Management Console. Save the package in a directory named for the package name is recommended.

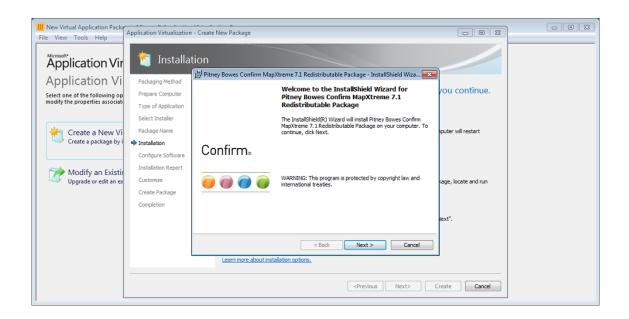
Specify directory under 'Primary Virtual Application Directory' that will contain all files for the sequence. It is recommended to define the application's default installation directory (example C:\Program Files\Confirm).

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir Application Vi	襸 Package Na	me	
Application Vi	Packaging Method		
Select one of the following op modify the properties associate	Prepare Computer	Package Name	
mouny the properties association	Type of Application	Virtual Application Package Name Confirm	
	Select Installer	Commit	
Create a New Vi Create a package by i	Package Name	This name will be killy the virtual application package in the App-V Management console.	
create a package by r	Installation Configure Software	Primary Virtual Application Directory (required)	
	Installation Report	C:\Program Files\Confirm Browse Important:	
Modify an Existin	Customize	You should use the Primary Virtual Application Directory location specified on this page as the installation	
	Create Package	directory when installing the application to be sequenced.	
	Completion	Installation will begin when you click "Next" and you will not be able to return to this page.	
		Learn more about the Primary Virtual Application Directory.	
		<previous next=""> Create Cancel</previous>	

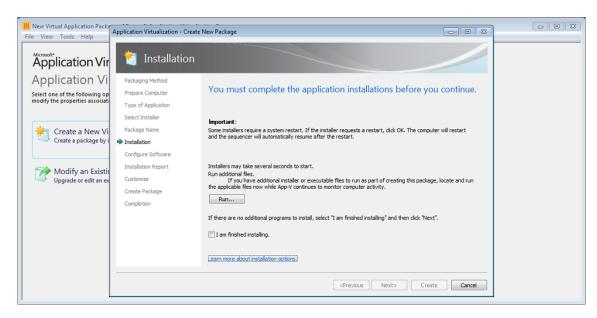
Installation

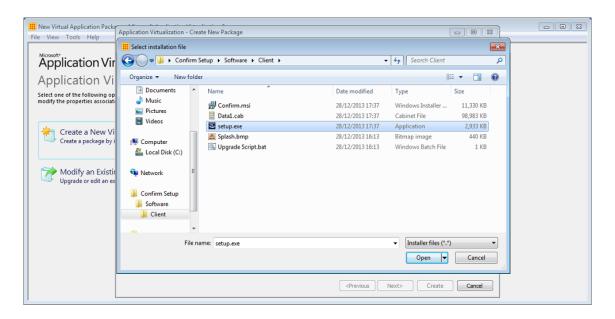
Install MapXtreme using the steps documented when locally installing it.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package		
Application Vir	installation			
Application Vi Select one of the following op modify the properties associate	Packaging Method Prepare Computer Type of Application	Please wait. The installer will start momentarily		
Create a New Vi Create a package by i	Installation			
Modify an Existin Upgrade or edit an ex	Configure Software Installation Report Customize Create Package			
	Completion			
		[earn more about installation options]		
		<previous next=""></previous>	Create Cancel	



Run additional Installers.Click 'Run...' button after the completion of MapXtreme installer; select the next (Confirm Client) installation program. Install 'Confirm Client' using the steps documented when locally installing it.





III New Virtual Application Packar File View Tools Help	Application Virtualization	n - Create New Package			
Application Vir	촵 Installa	tion			
Application Vi	Packaging Method Prepare Computer	岗 Confirm - InstallShield Wizz	Welcome to the InstallShield Wizard for Confirm Version 14.2.1	vou continue.	
modify the properties associate	Type of Application Select Installer		The InstallShield(R) Wizard will install Confirm on your		
Create a New Vi Create a package by i	Package Name	Confirm。	computer. To continue, dick Next.	iputer will restart	
Modify an Existi	Configure Software Installation Report		WARNING: This program is protected by copyright law and		
Upgrade or edit an ex	Customize Create Package Completion		international treaties.	kage, locate and run	
	compiction			iext".	
			< Back Next > Cancel	-	
		Learn more about inst			
			<previous next=""></previous>	Create Cancel	

Select 'I am finished installing' tick box once 'Confirm Client' installation is complete and then click 'Next'.

Hew Virtual Applic File View Tools	Application Virtualization - Create	New Package	
Applicati	installation		
Applicati Select one of the for modify the propert	Prepare Computer	You must complete the application installations before you continue.	
Create a p	Select Installer Package Name Installation Configure Software	Important : Some installers require a system restart. If the installer requests a restart, click OK. The computer will restart and the sequencer will automatically resume after the restart.	
Modify Upgrade o	Installation Report Customize Create Package Completion	Installers may take several seconds to start. Run additional files. If you have additional installer or executable files to run as part of creating this package, locate and run the applicable files now while App-V continues to monitor computer activity. <u>Bun</u> If there are no additional programs to install, select "I am finished installing" and then click "Next". V I am finished installing. Learn more about installation options.	
		<previous <u="">Next> <u>Create</u> Cancel</previous>	

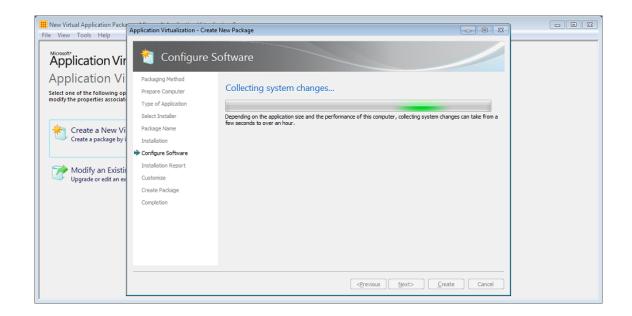
Configure Software – Confirm Client

At this stage, execute the Confirm Client application(s) at least once by selecting the application and clicking the "Run Selected" or "Run All" buttons (multiple executions are recommended to ensure any second-run tasks are executed). It is during this execution the following can be configured. Once both configurations are done, exit the application and continue with next steps of sequencing

- dbconfig.cfg file : Configure dbconfig.cfg from Database Setting screen.
- Registry entries: On dbconfig.cfg file is configured, login to all the flavors of Confirm once, automatically creates/configures the registry entries behind the scene.

Application Vir Application Vi		oftware			
Application Vi Pad					
modify the properties associate	ckaging Method epare Computer pe of Application	Run each program to manage f	first use tasks.		
Create a New Vi Create a package by i	ect Installer dkage Name tallation	You can run each program and complete any requirir agreements, setting user preferences, or disabiling running programs will also be saved in the virtual ap	automatic updates. In addition, changes ma	configuring license ade by any other	
Modify an Existin Upgrade or edit an ex Cre	nfgure Software tallation Report stomize eate Package mpletion	Name Confirm Arboriculture Confirm Eridges And Structures Confirm Engineering Confirm Environmental Confirm Environmental Confirm Edytways C Run Selected Run Al Learn more about managing first-use tasks.	Command Line "C: Program Files Pithey Bowe "C: !Program Files Pithey Bowe "C: !Program Files!Pithey Bowe ""	s Confirm (Client Y.co. s Confirm (Client Y.co g) Confirm (Client Y.co s Confirm (Client Y.co. +)	

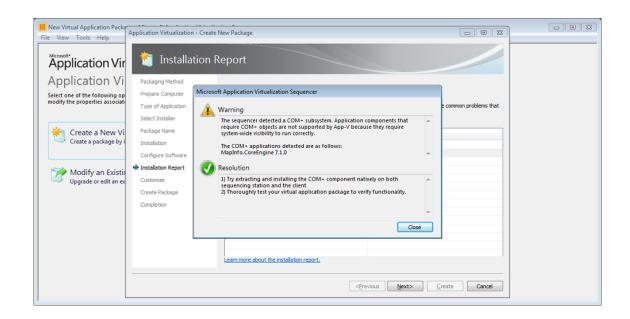
Application Vir	Application Virtualization - Create New Package	
Application Vi Select one of the following op modify the properties associat Create a New Vi Create a package by i Modify an Existin Upgrade or edit an ex	Packaging Method Prepare Computer Type of Application Select Installer Package Name Installation Configure Software Installation Report Customize Create Package Completion Profie Name Learn more about managing first-use tasks. Previous Mext> Create Cancel	



Installation Report

The Microsoft App-V Sequencer lists the issues discovered during sequencing in the Installation Report page. It also displays the diagnostic messages categorized into Errors, Warnings, and Information depending on the severity of the issue. Double click an item to see detailed information about the issue as well as suggestions for resolution.

III New Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package		
Application Vir	🍵 Create Pack	age		
Application Vi Select one of the following op modify the properties associate	Packaging Method Prepare Computer Type of Application	Package completed.		
Create a New Vi Create a package by i	Select Installer Package Name Installation Configure Software	Description Warnings (3) COM+ subsystem detected. Printer driver detected. Files excluded from package.	Resolution Verify package functionality. Install driver on client. Verify package functionality.	
Modify an Existin Upgrade or edit an ex	Installation Report Customize Create Package Completion			
			<previous next=""> Close Cancel</previous>	



We may ignore these three warnings and continue creating the package.

Customize

Select 'Stop now' once the application configuration is complete.

How Virtual Application Packa File View Tools Help	Application Virtualization - Create	New Package	
Application Vir	촵 Customize		
Application Vi Select one of the following op modify the properties associat	Packaging Method Prepare Computer Type of Application	Create a basic package or customize further.	
Create a New Vi Create a package by i	Select Installer Package Name Installation Configure Software	Stop now. Create a basic virtual application package (default). Customize. Further configure the virtual application package. Optimize this package for deployment over slow or unreliable network. Restrict operating systems that can run this package.	
Modify an Existin Upgrade or edit an ex	Installation Report Customize Create Package Completion		
	Completion		
		Learn more about basic packages and additional customizations	
		<previous next=""> Create Cancel</previous>	

Create Package

Specify a save location and utilize the package name as the directory (Example: \Desktop\Confirm).

How Virtual Application Packer File View Tools Help	Application Virtualization - Create New Package	
Application Vir	襘 Create Package	
Application Vi Select one of the following op modify the properties associat	Padaging Method Document the package and select output options. Prepare Computer Ocntrue to modify package without saving using the package editor. Type of Application Ocntrue to modify package without saving using the package editor. Select Installer Save the package now. Package Name Description Installation Configure Software Installation Report Installation Report	
Modify an Existi Upgrade or edit an ex		

Create Package – Completion Report

The Microsoft App-V Sequencer lists the diagnostic messages categorized into Errors, Warnings, and Information depending on the severity of the issue. Double click an item to see detailed information about the issue as well as suggestions for resolution.

He www.intual Application Packa File View Tools Help Microsoft Application Vir Application Vi Select one of the following op modify the properties associate	Application Virtualization - Creat	Report Review the installation report.	scess results and can help diagnose common problems that	
Create a New Vi Create a package by i	Select Installer Package Name Installation Configure Software Installation Report Customize Create Package Completion	Description Issues that may affect full package functionality (COM+ subsystem detected. Files excluded from package. Learn more about the installation report.	Resolution 3) Verify package functionality. Install driver on client. Verify package functionality.	
		4	revious <u>N</u> ext> <u>C</u> reate Cance	

App-V Package Files

Following files are created when sequencer is used to create a package of Confirm Client application.

.msi file	This Windows Installer (.msi) file is created by the sequencer and is used to install the virtual package of Confirm Client on target computers.
Report.xml file	In this file, the sequencer saves all issues, warn- ings, and errors that are discovered during sequen- cing of Confirm Client application to create a virtual package. It displays the information after the package has been created. This report can be used for diagnosing and troubleshooting.
.appv file	This is the virtual application file of Confirm Client application.
Deployment configuration file	The deployment configuration file determines how the virtual Confirm Client application will be deployed to target computers.
User configuration file	The user configuration file determines how the vir- tual Confirm Client application will run on target computers.

App-V Package Deployment

App-V Client

The Microsoft Application Virtualization (App-V) client is the component that runs a virtualized application on a target computer. The client enables users to interact with icons and to double-click file types, so that they can start a virtualized application.

Prerequisites for App-V Client

Follow the link for information.

http://technet.microsoft.com/en-us/library/jj713458.aspx

Install Microsoft App-V Client

Follow the link for information

http://technet.microsoft.com/en-us/library/jj713460.aspx

Uninstall Microsoft App-V Client

Follow the link for information

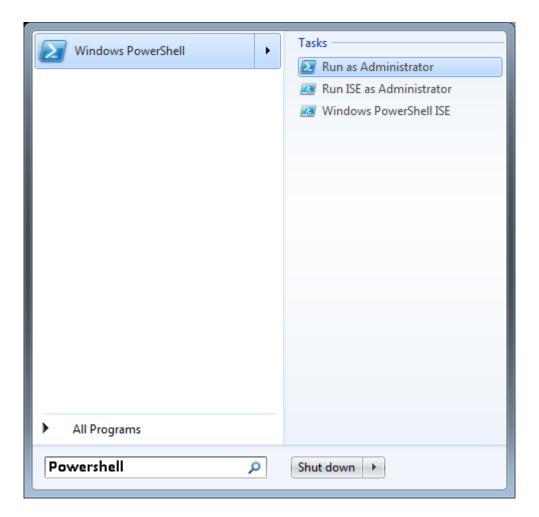
http://technet.microsoft.com/en-us/library/jj684291.aspx

Package Deployment Walkthrough

This section outlines the deployment of virtual package (Confirm Client) using Windows PowerShell 3.0.

PowerShell Console

To open a PowerShell console, click Start and type PowerShell. Run Windows PowerShell as Administrator.



Changing the Windows PowerShell Script Execution Policy

Execute the command to allow all Windows PowerShell scripts to run.

Command: Set-ExecutionPolicy Unrestricted

Install App-V Client Cmdlets

Execute the command to install App-V cmdlets.

Command: Import-Module AppvClient

Add the package to App-V Client

Execute the command to add Confirm Client application package to Microsoft App-V Client.

Command: : Add-AppvClientPackage -Path '{full path of Confirm Client virtual package}'

Packageld : e2; VersionId : 277 Name : Co Version : Ø. Path : N IsPublishedToUser : Fa UserPending : Fa IsPublishedGlobally : Fa GlobalPending : Fa InUse : Fa InUseByCurrentUser : Fa PackageSize : 58 PercentLoaded : Ø		
UersionId : ?? Name : Co Uersion : 0.1 Path : \\ IsPublishedToUser : Fa UserPending : Fa UserPending : Fa GlobalPending : Fa InUse : Fa InUse : Fa InUseByCurrentUser : Fa PackageSize : S8 PercentLoaded : 0	Add-AppuClientPackage -Path '\\noicon1\LogFiles\Sanjeeu\Confirm\Confirm.appu'	
IsLoading : Pa HasAssetIntelligence : Fa	*alse *alse *alse \$3210986 \$3210986	

Publish the package

Execute the command to publish a package to the current user.

Command: Publish-AppvClientPackage -Name " {name of Confirm Client virtual package}" -Global

🛃 Administrator: Windows P	overShell	- • •
		^
PS C:∖Windows∖system	32> Publish-AppvClientPackage -Name "Confirm"	
PackageId VersionId	: e2e97d36-126d-4bca-8868-502d3c629d96 : 77069259-895e-4d43-8c5a-1c26a7b3d77b	
Versionia Name Version	: //05/25/=3/56=4043=8C5a=1C2ba/D30//D : Confirm : 0.0.0.1	
Path IsPublishedToUser	: \\noicon1\LogFiles\Sanjeeu\Confirm\Confirm.appu : True	
UserPending IsPublishedGlobally GlobalPending	: False False	
Inuse	False : False	
InUseByCurrentUser PackageSize	: False : 583210986	
PercentLoaded IsLoading	: 0 : False	
HasAssetIntelligence	: : True	
		-

Remove the package

Execute the command to remove the already published package when needed.

Command: Remove-AppvClientPackage -Name "{name of Confirm Client virtual package}"I

FAQ

1. What is the need for virtualization?

It provides the agility, scalability, cost-saving required in today's business scenarios. It reduces

- Infrastructure downtime.
- Saves time and resources that are spend deploying/providing operating systems to users.
- Saves troubleshooting time for application installations.
- Multiple version of the same application can be deployed on one machine.
- 2. Can I do sequencing on a physical machine?

Yes, sequencing can be done on a physical machine. But, this is recommended to sequence using a virtual machine. This is due to starting over to correct a mistake. Thus, the sequencing workstation needs to return to a clean configuration several times. Using a virtual machine is strongly advised to allow the use of snapshots and/or undo disks. After sequencing a virtual application package, the machine can be reverted to a clean state.

3. I am getting error when launching .Net screens of the Confirm client?

You need to check whether both 32 bit and 64 bit of the Microsoft Visual C++ Redistributable is installed on the machine. If yes, ideally you should remove the 32 bit Microsoft Visual C++ Redistributable from the machine to fix the issue.

4. How to get list of all packages which are present on a machine?

The command "Get-AppvClientPackage –All" lists all the packages which are present on a machine.

5. How to remove a package which is present on a machine?

The command "**Remove-AppvClientPackage**" removes a package from a machine. "**Remove-AppvClientPackage**" supports the following inputs for the package.

- Name
- PackageID
- Version
- VersionID
- 6. Why do we need to run "Set-ExecutionPolicy"?

The "**Set-ExecutionPolicy**" cmdlet enables you to determine which Windows PowerShell scripts (if any) will be allowed to run on your computer. Windows PowerShell has four different execution policies:

- Restricted No scripts can be run. Windows PowerShell can be used only in interactive mode.
- AllSigned Only scripts signed by a trusted publisher can be run.
- RemoteSigned Downloaded scripts must be signed by a trusted publisher before they can be run
- Unrestricted No restrictions; all Windows PowerShell scripts can be run.