

Software Packaging

User Guide PackManager for App-V 6.2

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User Guide PackManager for App-V

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Contents

Welcome to PackManager for App-V	
Architecture Recommendations	5
Prerequisites	
Prerequisite Hardware	
Terminal Machine	
Client Machine	
Prerequisite Software	
Terminal Machine	
Client Machine	
Licensing	
No-License Mode	
Read-Only Mode	
Read-Write Mode	
Configuring the Environment	9
Working with PackManager for App-V	
Remote Console	
Connection	
Client	
Packages	
Adding a New Package	
Connection Groups	
Adding a New Connection Group	
Processes	
Publishing Servers	
Event Log	
The Bottom Bar	
Launch an App-V Package	
Settings	
Saving and Discarding Changes to Settings	
Common	
Files	
Event Log	
Need help?	



Welcome to PackManager for App-V

PackManager for App-V is a solution for IT professionals working with Microsoft App-V in Desktop, VDI, and Citrix environments. It allows to manage App-V clients remotely, reduces the user impact, and facilitates the achievement of user acceptance faster while increasing the quality of the package. This solution also includes a variety of remote troubleshooting functions which assist helpdesk staff and which can publish packages in a standalone environment. Furthermore, it centralizes the administration, deployment, and troubleshooting of App-V in one single, easy to use interface, which is already known from our other RaySuite applications.





Architecture Recommendations

PackManager for App-V should be located on a machine that has a connection to the destination machine on which the Microsoft Application Virtualization Client is installed / enabled. It is necessary to execute scripts using a remote computer on both machines. Some firewall configurations may cause trouble, therefore it is necessary to ensure that the firewall does not block the remote computers from executing these scripts. If there are questions regarding the configuration of a specific firewall, please ask the manufacturer or this firewall.





Prerequisites

In the following chapters the hardware and software requirements necessary to run PackManager for App-V are listed.

Prerequisite Hardware

The hardware requirements for the Terminal Machine and the Client Machine are listed here.

Terminal Machine

Minimal:

CPU Pentium IV / Core2 processor 2 GB RAM 100 MB free space on hard disk 1280 x 1024 screen resolution

Recommended:

CPU Intel Core i5 or i7 4 GB RAM 1 GB free space on hard disk

Supported OS:

The following represents the list of supported operating systems at the time of release.

- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008

- Windows 10
- Windows 8.1
- Windows 7
- Windows Vista

Client Machine

The client machine should have the Microsoft Application Virtualization Client in version 5.x installed, therefore it should fulfill the requirements provided by Microsoft.



Prerequisite Software

The software requirements for the Terminal Machine and the Client Machine are listed here.

Terminal Machine

The terminal machine should have a Windows operating system with Microsoft .NET Framework 4.5 installed. Additionally, PowerShell 3.0 or higher should be installed on the machine.

PowerShell is part of the Windows Management Framework. The latest version can be found under the following link: <u>https://www.microsoft.com/en-us/download/details.aspx?id=50395</u>.

Client Machine

The client machine should have the Microsoft Application Virtualization Client version 5.x installed.

Similar to the terminal machine, the client environment should have PowerShell 3.0 or higher installed.



Licensing

PackManager for App-V can use a standalone license (delivered by Raynet via an unique order number) or use a license file which has already been applied to other RaySuite applications.

Depending on the license, PackManager for App-V can be run in one of three different modes:

- No-license: When no RaySuite application was installed on the machine.
- **Read-only:** If the license for any of the RayPack Studio applications has been found on the machine.
- **Read-write:** If a standalone license has been applied or if one of the following to licenses has been found on the machine.

O A RayPack license with RayPack.PackDesinger.GenAppV license term.

• A RayQC Advanced license.

No-License Mode

In the No-License mode, users cannot access the Remote Console view.

Read-Only Mode

In the **Read-Only** mode, users can access the Remote Console and are able to connect to the App-V client machine and get all information, but their write permissions are restricted.

Read-Write Mode

In the **Read-Write** mode there are no restrictions.



Configuring the Environment

To establish the connection between the terminal and the client machine, the user needs to configure both machines to allow remote execution of scripts. To do this, the following steps need to be executed:

1. Terminal machine:

- a) Some firewall configurations or configurations of other network security systems might prevent the remote machine from accessing. Please ensure, that the remote machine is able to access the terminal machine, for this port number 5985 needs to be open. (If there are questions regarding the configuration of a specific firewall or network security system, please ask the manufacturer of the firewall or network security system.
- b) Install PowerShell version 3.0 or higher.
- c) Enable the **WinRM** service (more information on the **WinRM** service can be found at: <u>https://technet.microsoft.com/en-us/library/ff700227.aspx</u>).

2. Client machine:

- a) Some firewall configurations or configurations of other network security systems might prevent the remote machine from accessing. Please ensure, that the remote machine is able to access the terminal machine, for this port number 5985 needs to be open. (If there are questions regarding the configuration of a specific firewall or network security system, please ask the manufacturer of the firewall or network security system.
- b) Install PowerShell version 3.0 or higher.
- c) Enable the **WinRM** service (more information on the **WinRM** service can be found at: <u>https://technet.microsoft.com/en-us/library/ff700227.aspx</u>).
- d) Set the **PowerShell** execution policy to RemoteSigned (more information on this can be found at: <u>https://technet.microsoft.com/en-us/library/ee176961.aspx</u>).
- e) Start the RemoteRegistry service.



Working with PackManager for App-V

Remote Console

Connection

The **Connection** tab allows to configure the remote connection to the App-V Client machine. The connection can be configured by either using the DNS name or the IP address.

Once the connection is established, the user is able to execute the following actions:

- Restart the remote machine.
- Restart the App-V Client on the remote machine.
- Change the PowerShell execution policy on the remote machine.

Additionally, after the connection to the remote machine has been established, all tabs within the remote machine become enabled.

Connection	Connection
	Remote machine: 192.168.120.109
Client	Authentication method: 🔘 Windows authentication: 💿 Custom credentials
Packages	Connect to remote machine Disconnect
Connection groups	
Processes	Sconnected to 192.168.120.109
Publishing servers	Restart App-V Client Evention policy: Restart App-V Client
Event log	Election party remotelying



Client

The **Client** tab contains the information received from the remote machine that refers to the App-V Client configuration.

All rows that are grayed-out in this view are static. This means, the user is not able to change the values in these rows. All other rows can be changed by directly clicking into the value column or using the button that is located in the top-toolbar of the grid.

Information about the Client Configuration Settings can be found at <u>https://</u> technet.microsoft.com/en-us/itpro/mdop/appv-v5/about-client-configuration-settings.

Ļ	Connection	192.168.120.109 client data			
Ţ	Client		SHARED CONTENT STORE MODE	× DYNAMIC VIRTUALIZATION	
\bigcirc	Packages	© A		Type to start searching	c
		Name	Value		
日	Connection groups	AllowHighCostLaunch	× No (0)		~
		AutoLoad	× No (0)		
		CertFilterForClientSsl			
ι <u>τ</u>	Processes	EnableDynamicVirtualization	× No (0)		
		EnablePackageScripts	✓ Yes (1)		
-	Publishing servers	EnablePublishingRefreshUI	✓ Yes (1)		
		ExperienceImprovementOptIn	× No (0)		
Ē	Event log	IgnoreLocationProvider	× No (0)		
LO	Eventiog	IntegrationRootGlobal	%ALLUSERSPROFILE%\Microsoft\AppV\Client\Integration \textcircled{O}		
		IntegrationRootUser	%LOCALAPPDATA%\Microsoft\AppV\Client\Integration 🕥		
		LocationProvider			
		MigrationMode	0		
		PackageInstallationRoot	%programdata%\App-V 💿		
		PackageSourceRoot			
		ProcessesUsingVirtualComponents	%SystemRoot%\explorer.exe %ProgramFiles%\Internet Explorer\iexplore.exe %	%ProgramFiles(x86)%\Internet Explor	
		ReestablishmentInterval	5		
		ReestablishmentRetries	3		
		ReportingDataBlockSize			
		ReportingDataCacheLimit			
		ReportingEnabled	× No (0)		~
		ReportingInterval			



Packages

The **Packages** tab can be used to manage packages. Once loaded, it lists all packages that have been added on the Client that the user is connected to. The following actions can be performed with packages when using this view:

- Packages can be mounted.
- Packages can be published/unpublished (either to the current user or globally).
- Packages can be repaired.
- Packages can be stopped.
- Packages can be removed.

Connection	192.168.120.109 Packages		
🖵 Client	⊜ ⊕ ⊗	Type to start searching	P ExtraPutty 0.0.0.1
Packages	Adobe_Reader_11.0.0.9_DE_1.0.0 DominikReichI_KeePass_2.28_EN_1.0.0 DomIn_NotenadBusBlus_66.9_MI_1.0.0	0.0.0.1 0.0.0.1	\\192.168.120.109\C\$\ProgramData\PackManagerAppV\ExtraPutty\ExtraPut
Connection groups	ExtraPutty	0.0.0.1	× IN USE × LOADING × PUBLISHED (USER)
Processes	Office WBS Chart Pro WinMarne 2016 06 23 v32	0.0.0.1	✓ PUBLISHED (GLOBAL)
Publishing servers	withinerge_cono_co_co_co_co_co_co_co_co_co_co_co_co_co	0.0.0.1	Name Value
C Event log			Global pending × No (false) Has asset intelligen ✓ Yes (true) In use × No (false)
			In use by current u X No (False) Is loading X No (False)
			Is published globally 🖌 Yes (true) Is published to user 🗙 No (False)
			Name ExtraPutty Package ID 7dde5fa7-5e43-49b2-b090-d1e9feda4dd5
			Package size 1477152 Path \\192.168.120.109\C\$\ProgramData\PackManagerApp\^ Percent loaded 100%
			User pending × No (False) Version 0.0.0.1



Adding a New Package

New packages can be added using the **ADD PACKAGE WIZARD**.

The **ADD PACKAGE WIZARD** consists of five different sections.

• File: In this section, the user needs to specify the path to the .appv file. If a local path will be specified, then all sources will be copied to the destination machine. In case of an UNC path, PackManager for App-V will ensure that this path can be accessed from the remote machine and coping of sources will not be performed.

← BACK	ADD PACKAGE WIZARD	- 🗆 🗙
O File	Select where your App-V package is located.	
O Deployment configuration	App-V file: D:\Packages\Appv5\ExtraPutty\ExtraPutty.appv	
O Summary		
• Progress		
O Finished		
	< Back Next >	Cancel



• **Deployment configuration**: In this section, a dynamic configuration file (.xml) needs to be specified. By default, a **Deployment Configuration** file is selected, but it is also possible to select a **User Configuration** or a **Custom** file.

← BACK	ADD PACKAGE WIZARD	- 🗆 🗙
o File	Select dynamic configuration file	
O Deployment configuration	Deployment Configuration D:\Packages\Appv5\ExtraPutty\ExtraPutty_DeploymentConfig.xml	
O Summary	User Configuration D:\Packages\Appv5\ExtraPutty\ExtraPutty_UserConfig.xml	
O Progress	Custom	
O Finished	Xml file:	
	< Back Next >	Cancel

• **Summary**: In this section, a summary of the previous configuration is shown. The configurations made in the previous settings can be confirmed by clicking on the **Process** button.



÷	BACK	ADD P	ACKAGE WIZARD	- 0
ę) File	Summary		
0	Deployment configuration	App-V file:	D:\Packages\Appv5\ExtraPutty\ExtraPutty.appv	
0) Summary	Configuration type:	Deployment	
0) Progress	Dynamic Configuration file:	D:\Packages\Appv5\ExtraPutty\ExtraPutty_Deploym	nentConfig.xml
0) Finished			

• **Progress**: In this section a progress bar will be shown until the action has been finished. It will then automatically switch to the **Finished** section.



• **Finished**: In the **Finished** section, the result will be shown. The wizard can be closed now by clicking on the **Finish** button.

← BACK	ADD PACKAGE WIZARD	- 🗆 🗙
 File Deployment configuration Summary Progress Finished 	We finished the required actions. The wizard can be closed now.	
	< Back Finish	Cancel



Connection Groups

Connection groups are used to enable the applications within a package to interact with each other in the virtual environment while remaining isolated from the rest of the system. These groups can be managed by using the **Connection groups** tab in the PackManager for App-V **Remote Console**. Managing these groups from the **Remote Console** includes mounting, enabling (either for the current user or for all users), disabling, stopping, and removing them.

Connection	192.168.120.109 Connection Groups		
🖵 Client		e to start searching P	Group4
Packages	🗟 Group4 🗟 NewGroup		
Connection groups			× ENABLED (GLOBAL)
Processes			Image: Construction of the start searching. Image: Construction of the start searching. Image: Construction of the start searching.
Publishing servers			Name i Value Global pending X No (False) Group Id 6a09add8-cb01-48e2-a81e-ee448ae19544
C Event log			Group Id 6a09add8-cb01-48e2-a81e-ee448ae19544 In use X No (False) In use by curre X No (False) Is enabled glob X No (False) Is enabled glob X No (False) Is enabled to us X No (False) Name Group4 Percent loaded 17% Priority 0 User pending X No (False) Version ID b9cf578d-1c77-43b6-a231-a15d3b153da7

To add a new connection group, the **ADD CONNECTION GROUP WIZARD** can be used.



Adding a New Connection Group

New connection groups can be added using the **ADD CONNECTION GROUP WIZARD**.

The ADD CONNECTION GROUP WIZARD consists of five different sections.

• **Information**: In the first section the information about the group are going to be defined. Information that need to be defined include the **Display name** and the **Priority** of the group.

← BACK	ADD CO	DNNECTION GROUP WIZARD - 🗆	×	
O Information	Complete the information about the adding connection group.			
O Packages	Display name:	Test Group		
O Summary	Priority:	0		
O Progress	Group ID:	be7cc034-0b23-4d87-a2b9-cd6ff03b2c7c		
O Finished	Version ID:	80c86553-c346-4660-b596-330a1d174534		
		< Back Next > Canc	el	

• **Packages**: In this section the packages which are part of the group are selected.



← BACK	ADD CONNECTION GROUP WIZARD - 🗆 🚺
 Information Packages 	DonHo_NotepadPlusPlus_6.6.9_ML_1.0.0
O Summary	FileZilla
O Finished	Ø DominikReichl_KeePass_2.28_EN_1.0.0
	🥥 ExtraPutty
	Ø Office
	🥥 WBS Chart Pro
	WinMerge_2016_06_23_x32
	Adobe_Reader_11.0.0.9_DE_1.0.0
	< Back Next > Cancel

• **Summary**: In this section, a summary of the previous configuration is shown. The configurations made in the previous settings can be confirmed by clicking on the **Process** button.

← BACK	ADD C	- 🗆 🗙	
• Information	Summary		
 Packages 	Display name:	Test Group	
Summary	Group ID:	be7cc034-0b23-4d87-a2b9-cd6ff03b2c7c	
O Progress	Version ID:	80c86553-c346-4660-b596-330a1d174534	
O Finished	Priority:	0	
	Packages:		
	= FileZilla		
	ExtraPutty		
		< Back Process	Cancel



- **Progress**: In this section a progress bar will be shown until the action has been finished. It will then automatically switch to the **Finished** section.
- Finished: In the Finished section, the result will be shown. The wizard can be closed now by clicking on the Finish button.

← BACK	ADD CONNECTION GROUP WIZARD	- 🗆 🗙
 Information Packages Summary Progress Finished 	We finished the required actions. The wizard can be closed now.	
	< Back Finish	Cancel



Processes

In the **Processes** tab all processes running on the remote machine are listed with detailed information about each of the processes. Users can stop processes in this tab by clicking on the **Stop** button (**Stop**).

Connection	Processes				
🖵 Client	0 8				Type to start searching P
0	Process name	ID	Owner	Description	Stop process
Packages	CSrss	476	SYSTEM		Stop
	CSrss	560	SYSTEM		Stop
Connection groups	CSTSS	648	SYSTEM		Stop
	explorer	5664	Root	Windows Explorer	Stop
	4 📃 Idle	0			Stop
C Processes	System	4			Stop
_	Memory Compression	2420	SYSTEM		Stop
Publishing servers	smss	372	SYSTEM		Stop
	OneDrive	6164	Root	Microsoft OneDrive	Stop
🗟 Event log	wininit	548	SYSTEM		Stop
	winlogon	636	SYSTEM	Windows Logon Application	Stop
	 winlogon 	3420	SYSTEM	Windows Logon Application	Stop
	dwm	6616	DWM-3	Desktop Window Manager	Stop
	LogonUI	1032	SYSTEM	Windows Logon User Interface Host	Stop



Publishing Servers

Publishing server provide hosting and streaming functionalities for virtual applications. With PackManager for App-V, users can add them, synchronize them, and remove them with one click.

Connection	Publishing servers	5		
Client	© A B + ×	Type to start searching P	NewServer	
Daskages	Name	URL	Name	Value
Packages	NewServer	http://raynet.de/ps	Name	NewServer
🖭 Connection groups			URL Global refresh enabled Global refresh interval	http://raynet.de/ps X No (False) 0
Processes			Global refresh interval unit Global refresh on logon	Day 🗙 No (False)
Publishing servers			User refresh enabled User refresh interval User refresh interval unit	X No (False) 0 Day
C Event log			User refresh on logon	× No (False)



Event Log

In the **Event Log** tab, events from the event logs and the event tracing log files on remote computers related with the Microsoft App-V Client are displayed. Logs are grouped and can be easily filtered by their severity.

Connection	Event log entries	
🖵 Client	© R II	All levels Type to start searching P
Daskages	Time created	Message
U Packages	Name: Microsoft-AppV-Client/Admin	^
Connection groups	 3/10/2017 3:53:01 PM 2/24/2017 2:17:54 PM 	Failed to remove package (08A84D4D-DF18-4A54-9F57-2C508E7B7015) version The package (00000000-0000-0000-0000-000000000000) version (0000000-000
Processes	 2/24/2017 9:15:40 AM 2/23/2017 2:46:39 PM 2/22/2017 10:33:50 AM 	The package (0000000-0000-0000-00000000000) version (00000000-000 Failed to remove package (83FC0F87-C137-4F68-9595-C302286805D2) version { Failed to remove package (83FC0F87-C137-4F68-9595-C302286805D2) version {
Publishing servers	 ▲ 2/22/2017 10:24:31 AM ⑧ 2/22/2017 9:07:16 AM 	The package (83FCOF87-C137-4F68-9595-C302286805D2) version (2A648F5C-1E Failed to remove package (18B0E94E-8391-4E48-86F4-E60CD2DCBE9E) version {
🗟 Event log	 ▲ 2/21/2017 4:58:32 PM ③ 2/21/2017 4:58:31 PM ③ 2/21/2017 4:46:16 PM 	The package (83FC0F87-C137-4F68-9595-C302286805D2) version (2A64BF5C-1E Failed to remove package (1BB0E94E-8391-4E48-86F4-E60CD2DCBE9E) version { The package (00000000-0000-0000-0000-0000000000000
	 2/21/2017 4:44:28 PM 2/21/2017 4:29:07 PM 2/16/2017 9:12:44 AM 	The package {0000000-0000-0000-0000-000000000000} version {0000000-000 The package {0000000-0000-0000-0000-000000000000} version {0000000-000 The package {0000000-0000-0000-0000-000000000000} version {0000000-000
	 2/7/2017 4:44:59 PM 2/7/2017 4:44:58 PM 	The AppVStreamingUX application experienced an AppV error while attempting The package (0000000-0000-0000-0000-000000000000) version (0000000-000
	A Name: Microsoft-AppV-Client/Operational	
	 7/3/2017 10:21:27 AM 7/3/2017 10:20:29 AM 7/3/2017 10:20:29 AM 7/3/2017 10:20:29 AM 	App-V client has detected that the system has entered idle state. Background str IAppVClient::RegisterForEvents COM method exited. The operation completed su IAppVClient::RegisterForEvents COM method entered.
	1 7/3/2017 10:20:29 AM	IAppVCIIent::GetPackageGroupPriority_COM method exited. The operation compl



The Bottom Bar

The following options located in the bottom bar are always available to users while working with the **Remote Console**:

	Shows or hides the logging panel.
	Opens Computer Management in the context of the remote machine.
*	Opens the services in the context of the remote machine.
	Opens the Event Viewer in the context of the remote machine.
	Opens a Remote Desktop connection to the remote machine.



Launch an App-V Package

Launching an App-V package requires the Microsoft Application Virtualization Client to be installed on the machine. When using this tool, it is possible to test an App-V 5.0 package locally before moving it to the deployment server.

To test an App-V package, click on the **launch App-V package** tile on the **Dashboard** and select the App-V package file (.appv or .osd). If more than one shortcut is found within the App-V package, PackManager for App-V will ask the user to select one of the shortcuts from a list.

Found Shortcuts Select a shortcut from the list of found shortcuts:			
Shortcut ExtraPutty ExtraPutty Manual			
	<u>o</u> k	CANCEL	



Settings

The **Settings** area of PackManager for App-V can be accessed either by clicking on the **settings** tile on the **Dashboard** or from the **SETTINGS** tab in the main toolbar.

It is strongly recommended to check the settings at least once before starting the productive work with this module. This is important, because the configuration options offered in the **Settings** area determine some properties of the user interface that may help to orientate quickly.

Saving and Discarding Changes to Settings

To apply changes that have been made in the **Settings** view, click on the Save changes button that is located in the bottom swipe-bar of this view. If a user tries to move to another view with unsaved changes in the current view, then a confirmation dialog will be opened.

Confirm				
Application settings were changed. Do you want to save changes?				
YES NO				

Selecting YES in this dialog will save the changes and selecting NO will discard the changes.

Common

The **Common** tab currently contains only one setting that can be used to either enable or disable the animations in the user interface.



Disabling the animations will switch-off the rich user interface transitions, but may help getting a better performance on slower machines or on clients connecting via remote desktop services.



Files

In the **Files** tab, users can enable or disable the launch of files generated after being exported when in the grid view using the export button () which is located in the grid header.

Export
Launch on export
Ves Ves
Enabling export option will switch-on opening documents after export.
Stored connections
Remember connections when accessing remote servers
Yes Yes
Storing connection details can be handy if you repeatedly connect to the same machines. Do not use this feature on public locations, because it may store encrypted user name and password.
Reset stored connections

Event Log

In the **Event Log** tab the number of logs that will be displayed in the **Event log** tab of the **Remote Console** can be specified.

Number of Event Logs					
Max number of event logs:	50	•			

The number specifies, how many event logs will be downloaded from the remote machine.

Need help?

Request PackManager for App-V support

Our Raynet support team gladly assists you on any question or issue you encounter regarding PackManager for App-V. Feel free to sign in and open incidents via our <u>Raynet Support Panel</u>.

Join the PackManager for App-V community

The PackManager for App-V community resides within our Knowledge Base: <u>http://knowledgebase.raypack.net</u>.Once you signed up for access to the Raynet support panel, you automatically have access to the Knowledge Base, too.

You will surely come to a point where you would love to suggest a new feature for the future development of PackManager for App-V. Maybe you need to find some tips & tricks to hit your target right. The community is your place for discussing such topics, for sharing and expanding your own experience.

Step in contact with Raynet's professional packaging teams and learn how to polish your packaging activities to a level of highest quality standards. Since Raynet has years and years of experience in the packaging business, we know what to do, and how to do it. Don't row your boat alone when you have the chance to join our community for free.

Contact your Raynet sales representative

Our sales team is the right contact for any license or edition question you might encounter. You would like to benefit from a professional PackManager for App-V training? Ask for dates and locations to find the fitting training occasion. You are highly welcome to step in contact via sales@raynet.de.



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