

chawn
+44 (0)121 314 2253
info@chawn.com

XDAppVSync

Version 7.8

For

CITRIX®

XenDesktop 7.6, 7.7, 7.8, 7.9, 7.11

October 2016

XDAppVSync

Enables load balancing of Citrix Hosted App-V Applications

Citrix Hosted App-V Applications may be streamed from load balanced URLs

Create Citrix Hosted App-V Applications that support http(s) and UNC streaming sources

App-V packages may be streamed from (load balanced) URLs or SMB file paths

Synchronises Active Directory Groups

Synchronises Microsoft App-V package security groups to Citrix Hosted App-V Applications

Creates customised virtual applications

XDAppVLauncher applications may be created with customised command line arguments

Supports multiple App-V Policies

Supports up to five Citrix App-V Policies

Single Instance Application Management

Associate hosted applications with multiple delivery groups

Reports

Microsoft App-V Inventory, Citrix Hosted Applications, Linked Citrix Applications / App-V Packages

The screenshot displays the XDAppVSync application interface, which is used for managing App-V applications. The interface is divided into several sections:

- Citrix XenDesktop Site:** A tree view showing the site structure, including Applications, Delivery Groups, and App-V Policies.
- WinSCP:** Configuration details for the WinSCP application, including UUID, Published Name, Command Line, and App-V Metadata.
- Microsoft App-V Packages:** A tree view showing the inventory of App-V packages, including Internet Explorer JRE 1.6, Java(TM) Platform SE binary, and WinSCP_5.1.3.
- WinSCP_5.1.3:** Configuration details for the WinSCP_5.1.3 package, including Package GUID, Version GUID, and Package URL.

WinSCP Configuration:

Enabled:	True
UUID:	e6641701-f06a-45d3-8b90-a0fe17
Published Name:	WinSCP
Add To StartMenu:	False
StartMenu Folder:	
Command Line:	XDAppVLauncher.exe
Arguments:	"CO:{{ProgramFilesX86}}\WinSCP\WinSCP.exe 8bb79c30-4ac3-422a-acfa-c1c64637d1c5 1"
Working Directory:	
Description:	
App-V Metadata:	
Application:	[[ProgramFilesX86]]\WinSCP\WinSCP.exe
Configuration ID:	15
Package ID:	8bb79c30-4ac3-422a-acfa-c1c64637d1c5_59
Package Name:	WinSCP_5.1.3
Package URL:	N/A
Target in Package:	N/A

WinSCP_5.1.3 Configuration:

Enabled:	True
Package GUID:	8bb79c30-4ac3-422a-acfa-c1c646
Version GUID:	c7c26fa9-4a86-47d5-8de7-d1061
Package URL:	http://appv.chawn.local/appvapps/WINSCP.001/WinSCP_5.1.3_2_3.appv

Assigned Groups:

- 2012R2-Desktop
- CHAWN\App-V Users

Citrix Applications:

- Chawn\WinSCP

WinSCP (Bottom):

Enabled:	True
Arguments:	
Working Directory:	[[ProgramFilesX86]]\WinSCP
Target:	[[ProgramFilesX86]]\WinSCP\WinSCP.exe
Description:	SFTP, FTP and SCP client

XDAppVSync

System Requirements

Operating Systems

Windows 7, 8, 8.1 (32-Bit & 64-Bit), 2008R2, 2012, 2012R2

Supporting Software

Microsoft .Net Framework 4.5

Microsoft PowerShell 3.0

System Configuration

Required Components

Citrix XenDesktop 7.6, 7.7, 7.8, 7.9, 7.11

One Citrix App-V Policy must exist

App-V Management Server: *Name of Management server*

App-V Publishing Server: *Name of Publishing server or Load balanced URL, and port*

Microsoft App-V 5.0 / 5.1 Infrastructure

Microsoft App-V 5.0 / 5.1 Client for RDS and [XDAppVLauncher](#) Agent installed on all Session Hosts

Citrix NetScaler (Optional load balancing / content caching)

System Permissions

Group Membership

Membership of Citrix XenDesktop administrators (Domain Group)

Membership of Microsoft App-V administrators (Domain Group)

Membership of 'Remote Management Users' or 'Administrators' on Citrix XenDesktop Delivery Controllers (Local Group)

Membership of 'Remote Management Users' or 'Administrators' on Microsoft App-V Management Servers (Local Group)

Ports / Communications

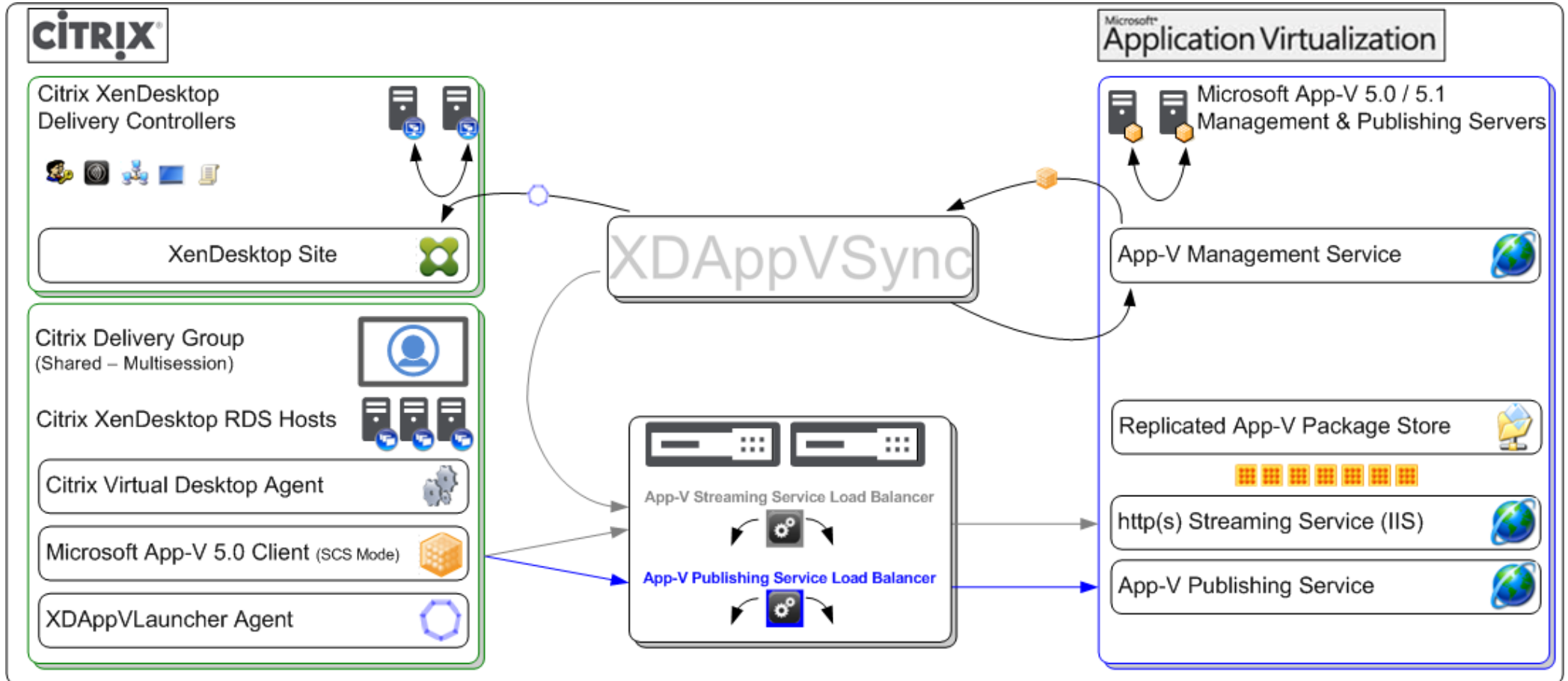
Source	Destination	Port	Description
XDAppVSync	App-V Management Server	5985	WSMan (Management)
XDAppVSync	App-V Streaming Service	80 / 443	http / https (App-V Package Access)
XDAppVSync	App-V File Share	445	SMB (App-V Package Access)
XDAppVSync	XenDesktop (localhost)	5985	WSMan (Management)

The preferred App-V Package Access method is to stream via http or https. This method permits load balancing and high availability of App-V packages. Additionally content caching and access rules may be configured on the load balancing device.

XDAppVSync

Solution Overview

XDAppVSync synchronises Microsoft App-V Applications to Citrix Hosted App-V Applications



XDAAppVSync

Configuration

Load Balancing

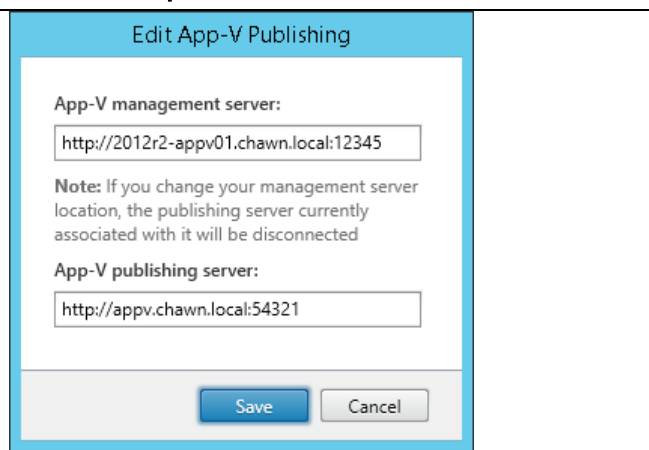
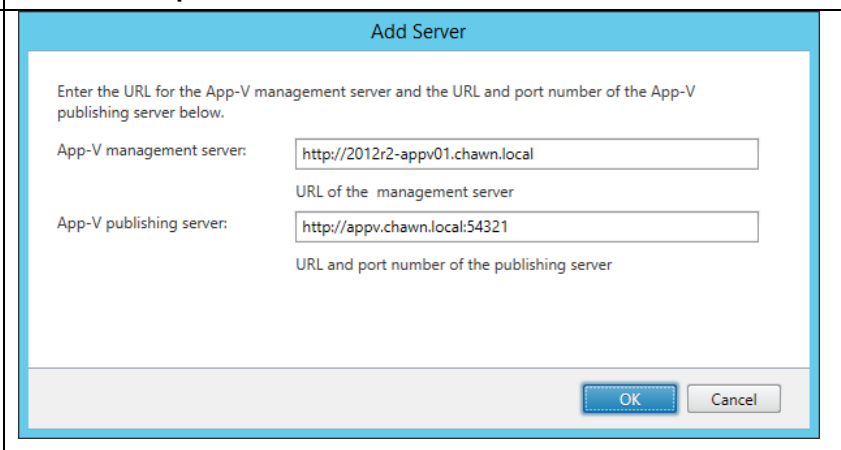
If using a load balanced URL for publishing and streaming App-V packages:

- Create a Load Balanced Virtual IP for the App-V Publishing Service
- Create a Load Balanced VIP for the App-V Streaming Service (Consider integrated caching)
- Create a DNS entry pointing at the Load Balanced VIP.

Ensure that all required firewall rules and networking routing has been implemented.

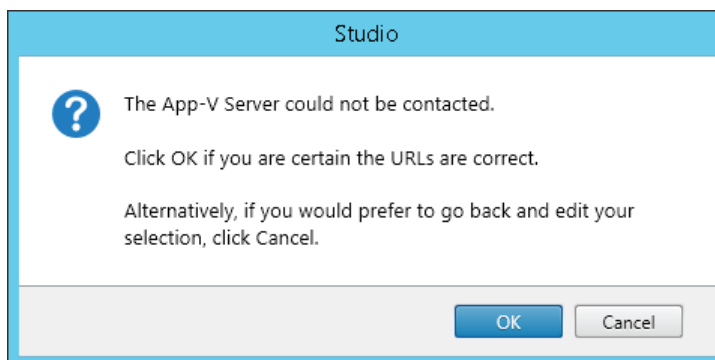
Citrix App-V Policy

Using Citrix Studio, create a new App-V Policy.

XenDesktop 7.6 & 7.7	XenDesktop 7.8 onwards
	
<p>App-V management server: Use the DNS name of one of your App-V management servers, and the port number.</p>	<p>App-V management server: Use the DNS name of one of your App-V management servers, <u>without</u> the port number.</p>

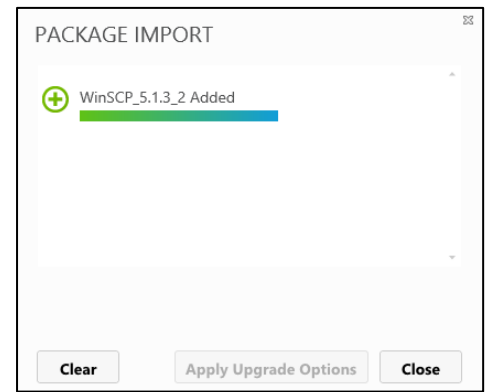
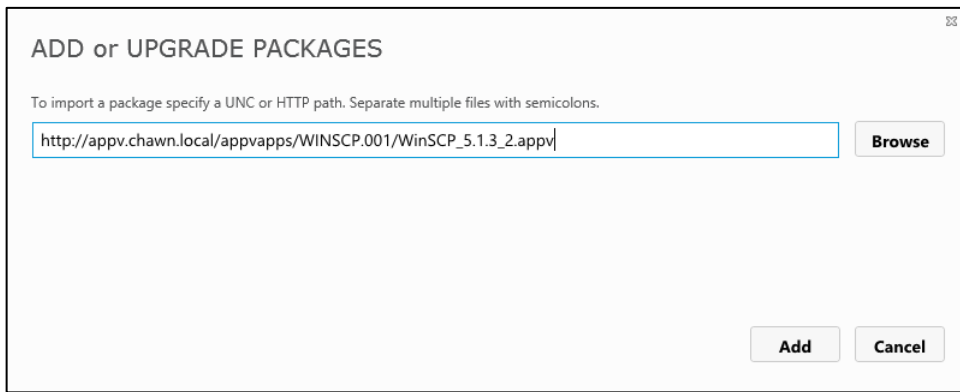
App-V publishing server: Use the Load Balanced DNS name for your App-V publishing server, and the port number.

When prompted '...if you are certain...', just click OK.



Import App-V Packages

Using the 'Microsoft Application Virtualization Console', import App-V packages configuring the source path so that it reflects the (load balanced) streaming URL.



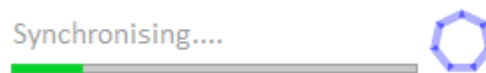
App-V Publishing Server URL / Session Hosts

The App-V publishing URL is configured for all Citrix Session Hosts by the Citrix App-V Policy. When adding an App-V application to a Delivery Group, XDAppVSync automatically assigns the App-V policy to the Delivery Group.

Citrix Session Hosts must be able to access the App-V publishing service and the App-V package store. The App-V package store may be a UNC file share or an http(s) streaming service.

The Microsoft App-V Client 5.0 / 5.1 for RDS must be installed on all Citrix Session Hosts that will host App-V applications.

Additionally the [XDAppVLauncher](#) agent is required to synchronise App-V packages at user logon and to launch App-V applications. Download [XDAppVLauncher](#) and install on all Citrix Session Hosts that will host App-V applications.



App-V Management Servers / XenDesktop Delivery Controllers

XDAppVSync communicates with the App-V Management Service and Citrix Delivery Controllers using PowerShell Remote commands. Therefore the App-V Management Servers and Citrix Delivery Controllers must be accessible on port 5985.

Please refer to the following article how to [Enable and Use Remote Commands in Windows PowerShell](#).

Validate the **MaxEnvelopeSizekb** WinRM parameter on the XenDesktop Delivery Controllers. Application creation may fail if the **MaxEnvelopeSizekb** parameter is less than 1000. Please refer to [instructions](#) on how to increase the **MaxEnvelopeSizekb** parameter.

XDAppVSync

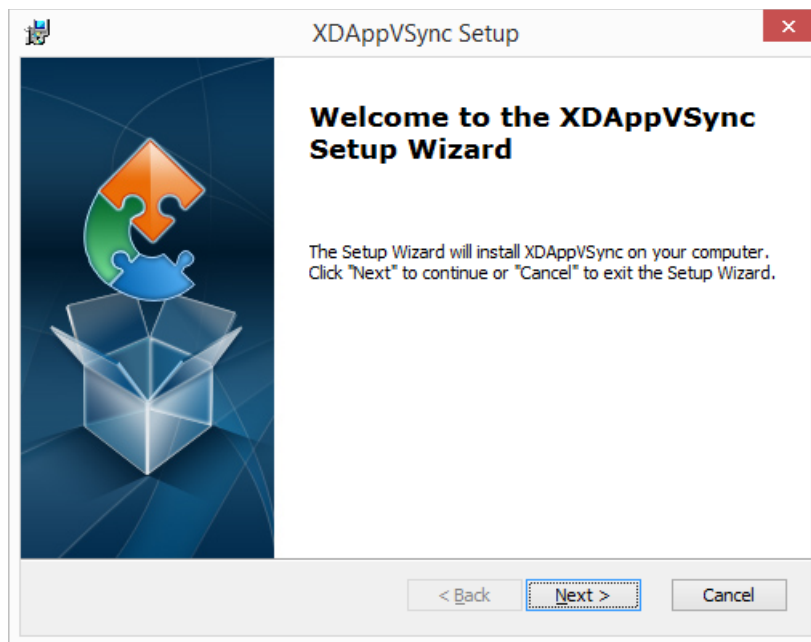
Installation

Manual Installation

XDAppVSync may be installed on any Windows device that meets the system requirements.

Download XDAppVSync from http://www.chawn.com/downloads/XDAppVSync_78.zip and extract the contents.

Run XDAppVSync_78.msi and follow the prompts.



Installation

Silent Installation

The following installation parameters are available.

Parameter	Value
XDBROKER	Name of a XenDesktop Delivery Controller
APPVMGMTSVR	Name of a Microsoft App-V 5.0 / 5.1 Management Server
LICENSE	License Serial Number

Example silent installation.

```
msiexec /i XDAppVSync_78.msi XDBROKER=2012r2-XADC01 APPVMGMTSVR=2012r2-APPV01  
LICENSE=12345678-87654321 /qb
```

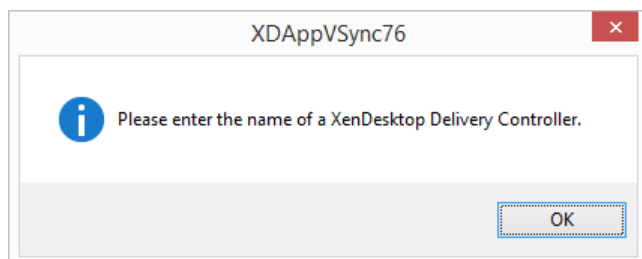
Administrative permissions are required for installation.

XDAppVSync

Configure XDAppVSync

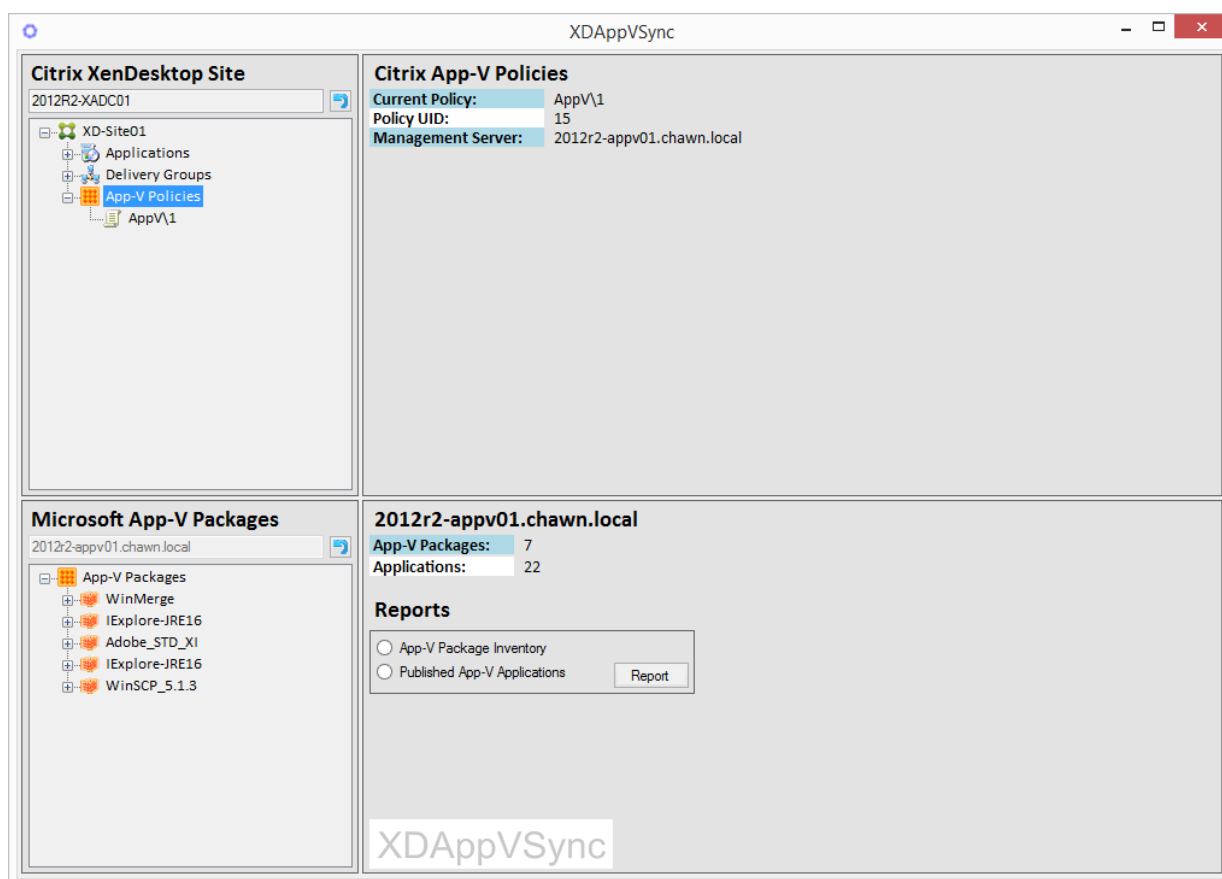
First Launch

When launching XDAppVSync for the first time you will be prompted for the name of a XenDesktop Delivery Controller if one was not specified during a silent installation.



Enter the name of a XenDesktop Delivery Controller and click **Connect**. 

Expand the App-V Policies node  and select a Citrix App-V Policy . Click **Connect**.



XDAppVSync will connect to the App-V Management Server defined in the Citrix App-V Policy and enumerate all App-V packages. (If running in evaluation mode, only five App-V packages may be enumerated)



The next time that XDAppVSync is launched, it will connect to the XenDesktop Delivery Controller and App-V Management servers automatically.

XDAppVSync



Applications

Create Citrix Hosted App-V Applications

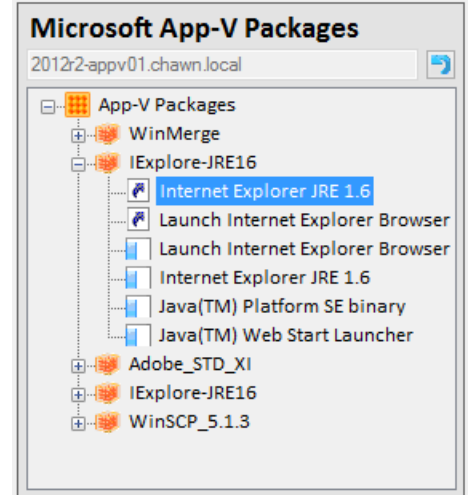
Expand an App-V package. 

The App-V Package contains Shortcuts  and Applications. 

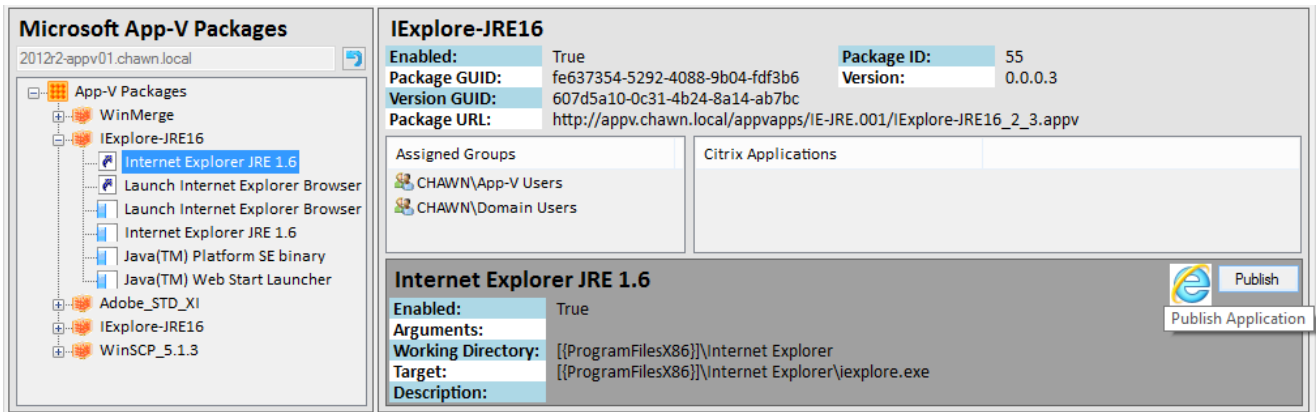
XDAppVSync can publish Shortcuts and Applications to Citrix XenDesktop.

-  Shortcuts provide a simple pointer to the App-V target application.
-  Applications may be modified to include command line arguments such as a URL or database connection parameters.

Additionally applications are only visible as hosted applications in Storefront or Receiver. They are not visible on published desktops.



Select an App-V Shortcut or Application and click **Publish Application**.



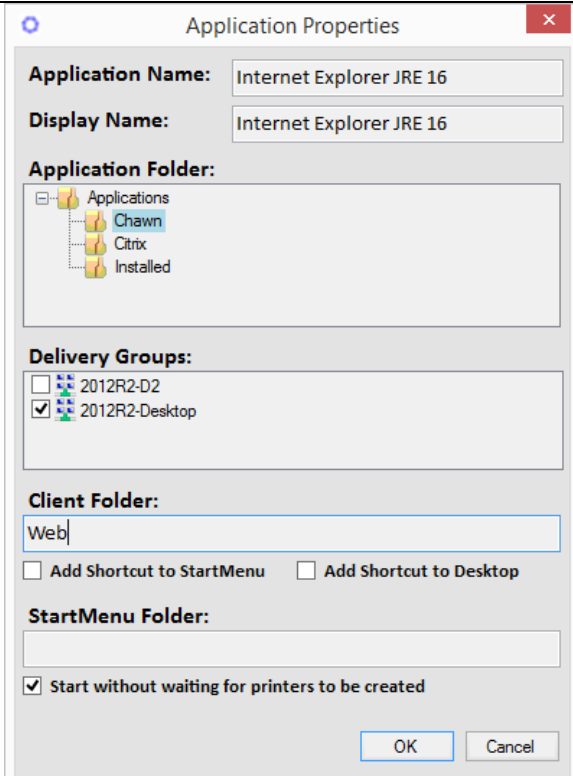
The Application and Display Names are completed automatically. Application and Display Names must be unique within each Application folder.


Select the Application Folder where the new application will be published.

Select a Delivery Group.
The Citrix hosted application may be assigned to more Delivery Groups after it has been created.

Configure client presentation settings.

Select whether to start the application without waiting for printers to be created.

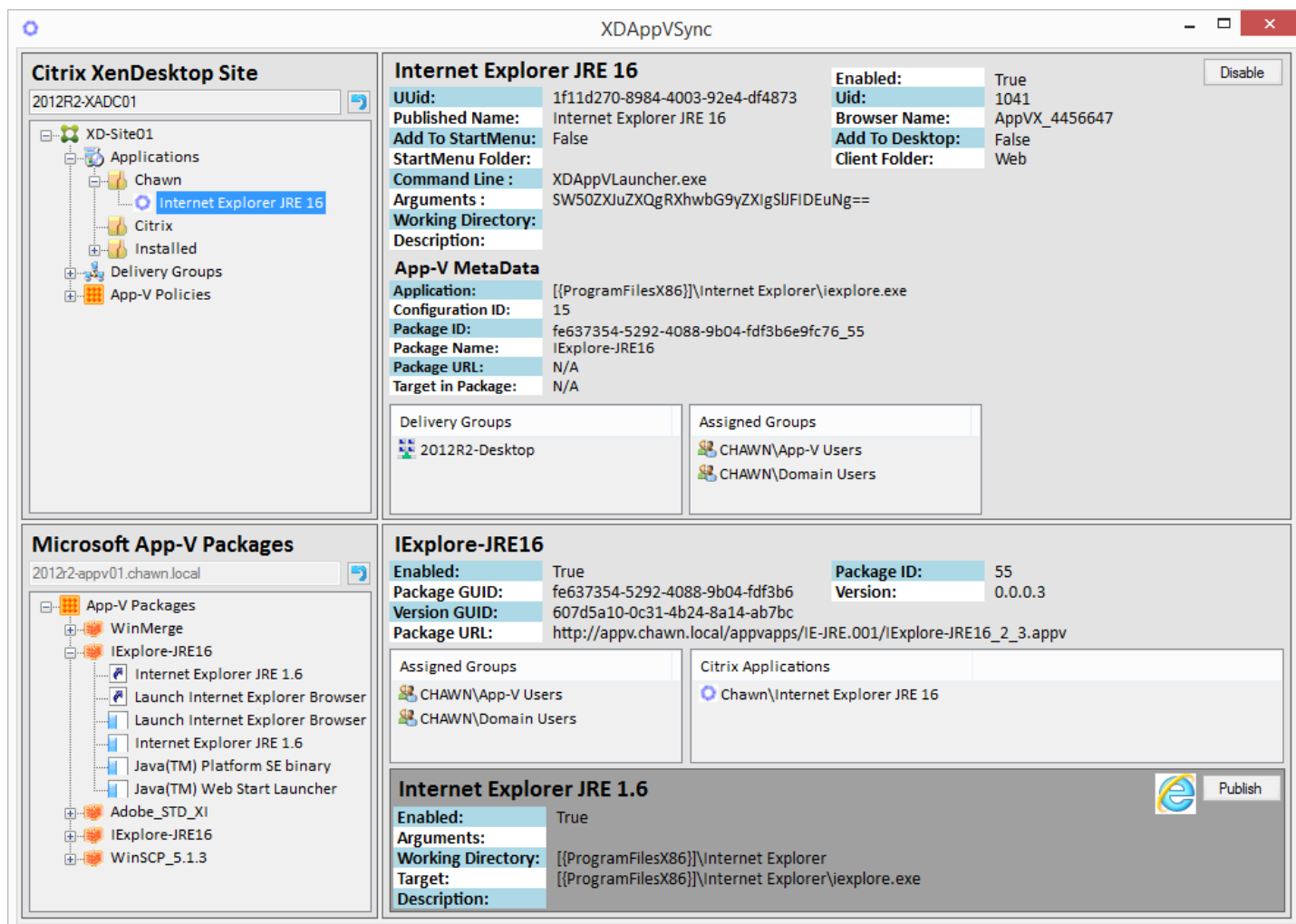


If publishing from an App-V Application , you can specify arguments to be passed to the virtual application.

Application Name:	Internet Explorer JRE 16
Display Name:	Internet Explorer JRE 16
Custom Application:	[[ProgramFilesX86]]\Internet Explorer\iexplore.exe
Application arguments: (Optional)	www.chawn.com

Click **OK**

The new Citrix Hosted Application is displayed in the XenDesktop Site tree and is available for launching by users.




The screenshot shows the XDApVSync application configuration interface. It is divided into several sections:

- Citrix XenDesktop Site:** A tree view showing the site structure. The path is 2012R2-XADC01 > XD-Site01 > Applications > Chawn > Internet Explorer JRE 16. The application is highlighted in blue.
- Internet Explorer JRE 16:** Configuration details for the application.
 - Enabled:** True (with a Disable button)
 - UUID:** 1f11d270-8984-4003-92e4-df4873
 - Published Name:** Internet Explorer JRE 16
 - Add To StartMenu:** False
 - StartMenu Folder:** (empty)
 - Command Line:** XDAppVLauncher.exe
 - Arguments:** SW50ZXUZXQgRXhwbG9yZXIlgSUFIDEuNg==
 - Working Directory:** (empty)
 - Description:** (empty)
 - App-V MetaData:**
 - Application:** [[ProgramFilesX86]]\Internet Explorer\iexplore.exe
 - Configuration ID:** 15
 - Package ID:** fe637354-5292-4088-9b04-fdf3b6e9fc76_55
 - Package Name:** IExplore-JRE16
 - Package URL:** N/A
 - Target in Package:** N/A
 - Delivery Groups:** 2012R2-Desktop
 - Assigned Groups:** CHAWN\App-V Users, CHAWN\Domain Users
- Microsoft App-V Packages:** A tree view showing the package structure. The path is 2012r2-appv01.chawn.local > App-V Packages > IExplore-JRE16 > Internet Explorer JRE 1.6. The application is highlighted in orange.
- IExplore-JRE16:** Configuration details for the package.
 - Enabled:** True
 - Package GUID:** fe637354-5292-4088-9b04-fdf3b6
 - Version GUID:** 607d5a10-0c31-4b24-8a14-ab7bc
 - Package URL:** http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3.appv
 - Package ID:** 55
 - Version:** 0.0.0.3
 - Assigned Groups:** CHAWN\App-V Users, CHAWN\Domain Users
 - Citrix Applications:** Chawn\Internet Explorer JRE 16
- Internet Explorer JRE 1.6:** Configuration details for the application.
 - Enabled:** True
 - Arguments:** (empty)
 - Working Directory:** [[ProgramFilesX86]]\Internet Explorer
 - Target:** [[ProgramFilesX86]]\Internet Explorer\iexplore.exe
 - Description:** (empty)

XDAppVSync

Synchronise Application Security Groups

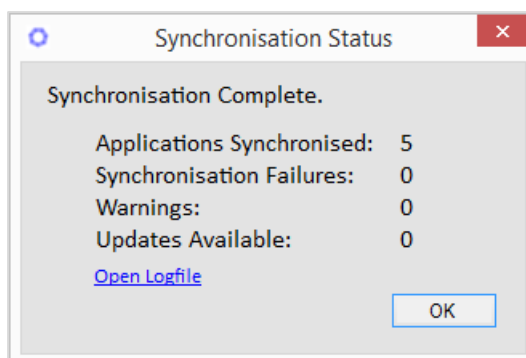
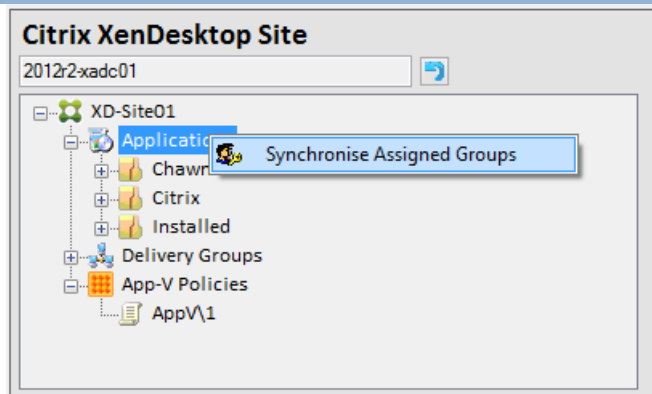
Manually

To synchronise application security groups from App-V Packages to Citrix Hosted Applications, right click on either the Applications node  or any subfolder and click **Synchronise Assigned Groups**.

All applications in the selected folder and subfolders will be synchronised with the associated App-V package.

The following dialog is displayed when synchronisation has completed. Click [Open Logfile](#) to view further details

Logfile location: %temp%\Chawn\XDAppVSync\XDAppVSync.txt



Note: 'Refresh App-V Applications' in Citrix Studio does not affect or synchronise XDAppVLauncher Applications.

Synchronise Application Security Groups

Silently

Before running a silent synchronisation, the following registry values must be configured to provide connection information to XDAppVSync.

```
[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Chawn\XDAppVSync\Settings]
"XDBroker"="Name of XenDesktop Delivery Controller"
"AppVMgmtSvr"="Name of App-V Management Server"
```

The user running a silent synchronisation must be a Citrix XenDesktop and Microsoft App-V administrator.

Run the following command

```
"C:\Program Files (x86)\Chawn\XDAppVSync\xd_appv_sync.exe" /sync
```

The following command creates a scheduled task that synchronises applications at 2am every day.

```
schtasks.exe /create /RU domain\username /RP Password /SC DAILY /TN "Sync AppV Security" /TR "C:\Program Files (x86)\Chawn\XDAppVSync\xd_appv_sync.exe /sync" /ST 02:00
```

The scheduled task user must be a Citrix XenDesktop and Microsoft App-V administrator.

XDAppVSync

App-V Packages Updates

Sync Application

When an App-V package is updated, the **VersionGUID** and **Id** properties will change.

Original App-V Package	Updated App-V Package
Id : 55	Id : 57
Name : IExplore-JRE16	Name : IExplore-JRE16
PackageGuid : fe637354-5292-4088-9b04-fdf3b6e9fc76	PackageGuid : fe637354-5292-4088-9b04-fdf3b6e9fc76
VersionGUID : 607d5a10-0c31-4b24-8a14-ab7bce5a8db2	VersionGUID : 0500c880-d38e-4b62-99f6-63865ff4472e
Version : 0.0.0.3	Version : 0.0.0.4
Enabled : True	Enabled : False
PackageUrl : http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3.appv	PackageUrl : http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3_4.appv

XDAppVSync maintains the link between an App-V package and a hosted application using the **VersionID** and **Id** storing the values as application Metadata.

App-V MetaData	
Application:	[[ProgramFilesX86]]\Internet Explorer\iexplore.exe
Configuration ID:	15
Package ID:	fe637354-5292-4088-9b04-fdf3b6e9fc76 55
Package Name:	IExplore-JRE16
Package URL:	N/A
Target in Package:	N/A

If the updated App-V package is published and enabled using the App-V management console, the updated App-V package will be immediately available to XenDesktop users. (Subject to identical security group assignments)

To maintain the link between an App-V package and a hosted application, the **Package ID** metadata attribute must be updated to reflect the new App-V Package **VersionID** and **ID**. This ensures that the correct security groups are synchronised.

Following an App-V package update, click on the original App-V package. Right click the associated Citrix application and click **Properties**.

The screenshot shows the Microsoft App-V Packages console. On the left, a tree view shows the package hierarchy under '2012r2-appv01.chawn.local', with 'IExplore-JRE16' selected. The main pane displays the properties for 'IExplore-JRE16':

- Enabled:** True
- Package GUID:** fe637354-5292-4088-9b04-fdf3b6
- Version GUID:** 607d5a10-0c31-4b24-8a14-ab7bc
- Package URL:** http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3.appv
- Package ID:** 55
- Version:** 0.0.0.3

Below the properties, there are two sections: 'Assigned Groups' (listing CHAWN\App-V Users and CHAWN\Domain Users) and 'Citrix Applications' (listing Chawn\Internet Explorer JRE16). A context menu is open over the Citrix application, with 'Properties' selected.

XDAppVSync will select the associated Citrix application. Right click the Citrix application and click **Find App-V Package**.

Citrix XenDesktop Site
2012r2-xadc01

Internet Explorer JRE 16

Enabled: True
 Uid: 1041
 Browser Name: AppVX_4456647
 Add To Desktop: False
 Client Folder: Web

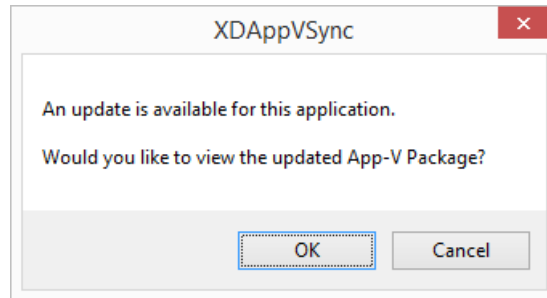
UUid: 1f11d270-8984-4003-92e4-df4873
 Published Name: Internet Explorer JRE 16
 Add To StartMenu: False
 StartMenu Folder:
 Command Line : XDAppVLauncher.exe
 Arguments : SW50ZXJuZXQgRXhwbG9yZXIglJFIDEuNg==
 Working Directory:
 Description: [{{ProgramFilesX86}}]\Internet Explorer\iexplore.exe
 15
 fe637354-5292-4088-9b04-fdf3b6e9fc76_55
 IExplore-JRE16
 Package URL: N/A
 Target in Package: N/A

Delivery Groups
 2012R2-Desktop

Assigned Groups
 CHAWN\App-V Users
 CHAWN\Domain Users

The following message is displayed.

Click OK.



XDAppVSync selects the updated App-V package and displays the **Sync** button. Click **Sync** to update the Citrix application.

Microsoft App-V Packages
2012r2-appv01.chawn.local

IExplore-JRE16

Enabled: False
 Package GUID: fe637354-5292-4088-9b04-fdf3b6
 Version GUID: 0500c880-d38e-4b62-99f6-63865f
 Package URL: http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3_4.appv

Package ID: 57
 Version: 0.0.0.4

Assigned Groups
 CHAWN\App-V Users

Citrix Applications

Sync

The **Sync** button also updates assigned security groups and may be clicked at any time after finding a package.

The Citrix application metadata is updated to reflect the new App-V package ID.

App-V MetaData

Application:	[{{ProgramFilesX86}}]\Internet Explorer\iexplore.exe
Configuration ID:	15
Package ID:	fe637354-5292-4088-9b04-fdf3b6e9fc76 57
Package Name:	IExplore-JRE16
Package URL:	N/A
Target in Package:	N/A

You can identify Citrix applications that require updating by reviewing the synchronisation logfile and looking for the following events.

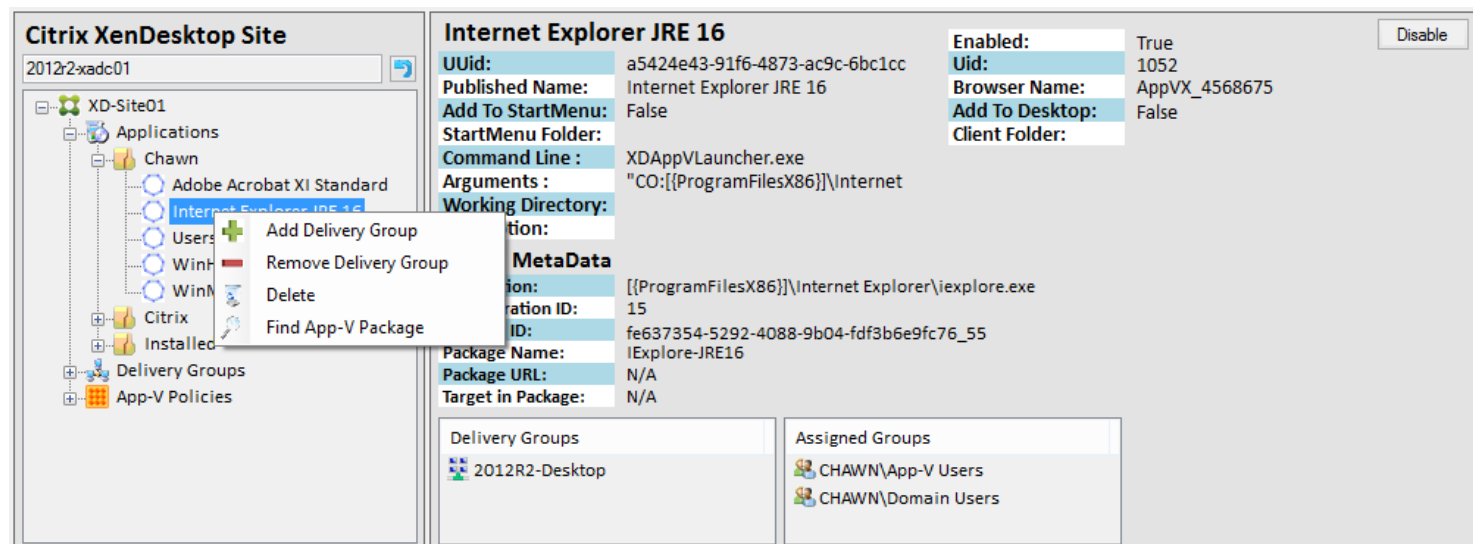
```
Date/Time: 07/10/2015 03:55:42 --- Citrix Application Uid: 1047 Application Name: Chawn\Internet Explorer JRE 16 Linked GUID: fe637354-5292-4088-9b04-fdf3b6e9fc76 Linked Id: 55
***** Update Available: App-V Package Name: IExplore-JRE16 App-V Package GUID: fe637354-5292-4088-9b04-fdf3b6e9fc76 App-V Version GUID: 0500c880-d38e-4b62-99f6-63865ff4472e App-V Package ID: 57 Enabled: 0
```

XDAppVSync

Single Instance Applications

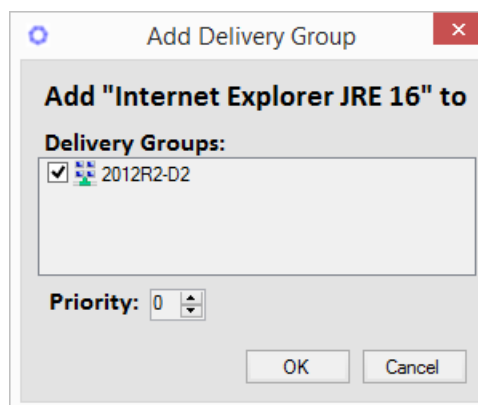
Add Published Applications to a Delivery Group

Right click a Citrix application and click **Add Delivery Group**.



Select a Delivery Group and click **OK**.

Optionally set a Priority.



Specifies the priority of the mapping between the application and desktop group where lower numbers imply higher priority with zero being highest.

If one association has a higher priority than the other, machines from that group will be selected for launching sessions until all machines are at maximum load, in maintenance mode, unregistered, or unavailable for any other reason. Only when all machines from the higher-priority group are unavailable will new connections be routed to the next lowest priority group.

If multiple associations have equal priority, load balancing does not occur among the desktop groups in these associations. Instead, the broker chooses one of these groups as the preferred group and machines from this group will be selected for launching sessions until all machines are at maximum load, in maintenance mode, unregistered, or unavailable for any other reason. Only when all machines from the preferred group are unavailable will new connections be routed to another one of these groups, which the broker chooses as next-most preferred.

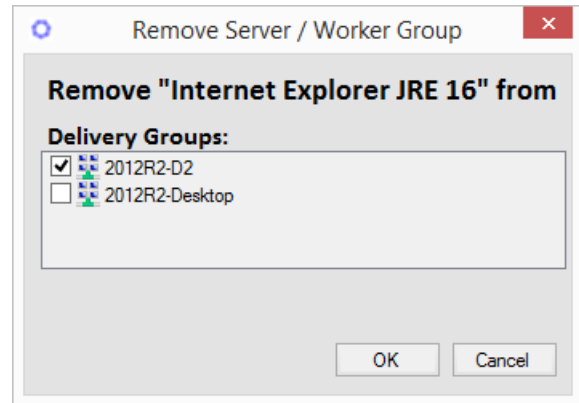
<http://docs.citrix.com/en-us/xenapp-and-xendesktop/7-6/cds-sdk-wrapper-rho/xad-commands/citrix-broker-admin-v2-wrapper-xd76/add-brokerapplication-xd76.html>

Single Instance Applications

Remove Published Applications from a Delivery Group

Right click a Citrix application and click **Remove Delivery Group**.

Select a Delivery Group and click **OK**.



When adding Citrix Hosted App-V Applications to a Delivery Group, the relevant App-V policy will be associated with the Delivery Group.

When removing Citrix Hosted App-V Applications from a Delivery Group, the relevant App-V policy will be disassociated from the Delivery Group if no other Citrix Hosted App-V Applications are associated with the Delivery Group.

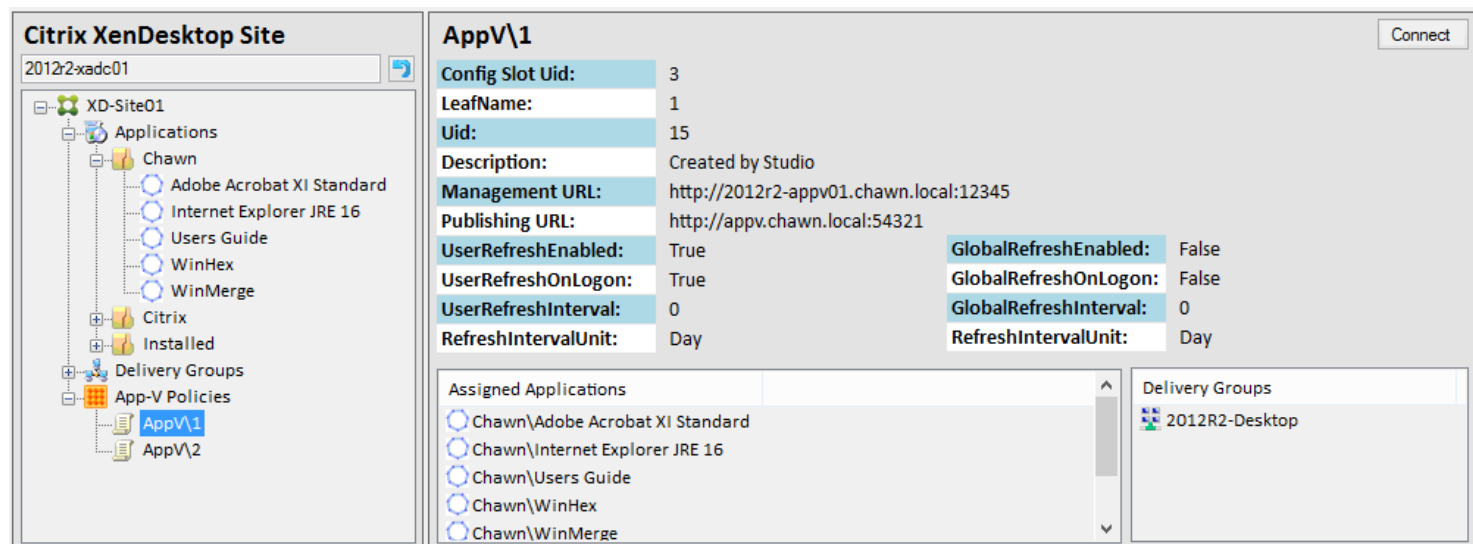
A Citrix Published Application must always be associated with at least one Delivery Group.

XDAppVSync

Multiple App-V Servers / Infrastructures

Citrix App-V Policies

Each Citrix App-V policy represents a separate Microsoft App-V infrastructure.



The screenshot displays the Citrix XenDesktop Studio interface. On the left, a tree view shows the site structure under '2012r2-xadc01', including 'XD-Site01', 'Applications', 'Chawn', and 'App-V Policies'. The 'AppV\1' policy is selected. The main pane shows the configuration for 'AppV\1' with the following properties:

Config Slot Uid:	3
LeafName:	1
Uid:	15
Description:	Created by Studio
Management URL:	http://2012r2-appv01.chawn.local:12345
Publishing URL:	http://appv.chawn.local:54321
UserRefreshEnabled:	True
UserRefreshOnLogon:	True
UserRefreshInterval:	0
RefreshIntervalUnit:	Day
GlobalRefreshEnabled:	False
GlobalRefreshOnLogon:	False
GlobalRefreshInterval:	0
RefreshIntervalUnit:	Day

Below the properties, there are two lists:

- Assigned Applications:** A list of applications with radio buttons, including 'Chawn\Adobe Acrobat XI Standard', 'Chawn\Internet Explorer JRE 16', 'Chawn\Users Guide', 'Chawn\WinHex', and 'Chawn\WinMerge'.
- Delivery Groups:** A list containing '2012R2-Desktop'.

A 'Connect' button is located in the top right corner of the configuration pane.

The **Management Url** property is used by administrative tools to connect to the App-V Management Service.

The **Publishing Url** property is used by the App-V Client, installed on Virtual Desktop Agents, to query the App-V Publishing Service.

When an application is created with XDAppVSync, the associated application's Citrix App-V policy is assigned to the Delivery Group that will host the application. This ensures that the App-V Client, installed on the Virtual Desktop Agent, can enumerate the application using the correct publishing URL.

When an application is deleted with XDAppVSync, the associated application's Citrix App-V policy is removed from the Delivery Group that was hosting the application, if the application is the only / last one associated with the Citrix App-V policy.

If you have multiple App-V infrastructures, a separate Citrix App-V Policy will be required for each one.

To connect to an alternative App-V infrastructure, select the relevant App-V policy and click **Connect**.

Refer to <http://www.chawn.com/XDAppVpolRef.htm> for instructions on how to create, or remove, additional Citrix App-V policies

XDAppVSync

Licensing

Evaluation Mode

Permits full functionality however the number of App-V application packages that may be enumerated is restricted to five.

Activated Mode

Permits full functionality with a named customer site license.

After activation the serial number is stored in the registry.

HKEY_CURRENT_USER\Software\Chawn\XDAppVSync\License.

To license XDAppVSync system wide, configure the serial number in the registry.

HKEY_LOCAL_MACHINE\Software\Wow6432Node\Chawn\XDAppVSync\License.

For licensing enquiries please contact Chawn Limited.

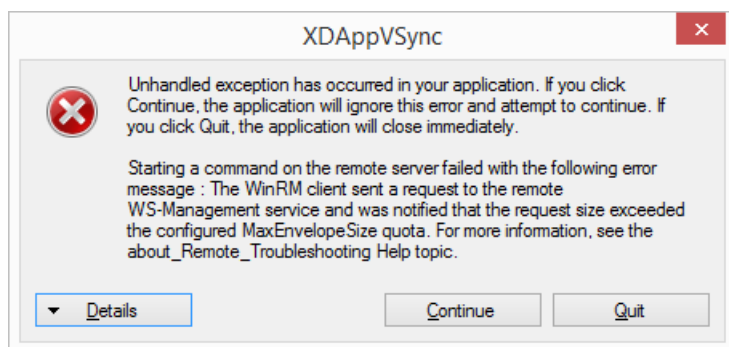


XDAppVSync

Troubleshooting / Errors

Error when creating Citrix Hosted Applications

System.Management.Automation.Remoting.PSRemotingTransportException: Starting a command on the remote server failed with the following error message : The WinRM client sent a request to the remote WS-Management service and was notified that the request size exceeded the configured MaxEnvelopeSize quota. For more information, see the about Remote Troubleshooting Help topic.



Cause:

MaxEnvelopeSizekb WinRM parameter on the Delivery Controller needs increasing from default value.

Solution:

Open a command prompt on the affected Delivery Controller

Type:

```
winrm get winrm/config
```

```
CA. Select Administrator: C:\wind...
C:\Users\xd-admin>winrm get winrm/config
Config
  MaxEnvelopeSizekb = 500
  maximeoutms = 60000
  MaxBatchItems = 32000
  MaxProviderRequests = 4294967295
Client
  NetworkDelays = 6000
  URLPrefix = wsman
  AllowUnencrypted = false
Auth
  Basic = true
  Digest = true
  Kerberos = true
  Negotiate = true
  Certificate = true
  CredSSP = false
DefaultPorts
  HTTP = 5985
  HTTPS = 5986
TrustedHosts = appv.chawn.local
```

Note the current size of the MaxEnvelopeSizekb.

To increase the MaxEnvelopeSizekb parameter.

Type:

```
winrm set winrm/config @{MaxEnvelopeSizekb="1000"}
```