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XenAppVSync

Version 6.5.0

For

CITRIX®

XenApp 6.5

August 2015

XenAppVSync

Integrates Citrix XenApp 6.5 with Microsoft App-V 5.0

Create Citrix Published App-V Applications from Microsoft App-V Packages

Synchronises Active Directory Group Membership

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

Supports http(s) and UNC streaming sources

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

Report on App-V Packages and synchronised applications

App-V Inventory reports and virtual application synchronisation status

The screenshot displays the XenAppVSync management interface, which is divided into several sections:

- Citrix XenApp Farm:** A tree view on the left showing the hierarchy of the XenApp farm, including XA65Farm, Applications, Desktops, Published, App-V, WinSCP, Internet Explorer JRE 16, Servers, and Worker Groups.
- WinSCP Configuration:** A detailed view for the WinSCP application. It shows:
 - Enabled:** True (with a Disable button)
 - Browser Name:** XAppV_1379568
 - Application ID:** 5198-0006-00000318
 - StartMenu Folder:** (empty)
 - Client Folder:** (empty)
 - Application Type:** ServerInstalled
 - Command Line:** XDAppVLauncher.exe V2luU0NQ
 - Working Directory:** WinSCP:8bb79c30-4ac3-422a-acfa-c1c64637d1c5_59
 - Description:** WinSCP:8bb79c30-4ac3-422a-acfa-c1c64637d1c5_59
 - Assigned Groups:** CHAWN\App-V Users
 - Servers:** (empty)
 - Worker Groups:** Site1 Workers
 - Add To StartMenu:** False
 - Add To Desktop:** False
- Microsoft App-V Packages:** A tree view on the left showing the hierarchy of App-V packages, including App-V Packages, WinMerge, IExplore-JRE16, Internet Explorer JRE 1.6, Launch Internet Explorer Browser, Adobe_STD_XI, IExplore-JRE16, Internet Explorer JRE 1.6, Launch Internet Explorer Browser, WinSCP_5.1.3, and WinSCP.
- WinSCP_5.1.3 Configuration:** A detailed view for the WinSCP_5.1.3 package. It shows:
 - Enabled:** True
 - Package GUID:** 8bb79c30-4ac3-422a-acfa-c1c64637d1c5
 - Version GUID:** c7c26fa9-4a86-47d5-8de7-d1061bf61837
 - Package URL:** http://appv.chawn.local/appvapps/WINSCP.001/WinSCP_5.1.3_2_3.appv
 - Package ID:** 59
 - Version:** 0.0.0.3
 - Assigned Groups:** CHAWN\App-V Users
 - Citrix Applications:** WinSCP
 - WinSCP Configuration:** A sub-section at the bottom showing:
 - Enabled:** True
 - Arguments:** (empty)
 - Working Directory:** [{ProgramFilesX86}]\WinSCP
 - Target:** [{ProgramFilesX86}]\WinSCP\WinSCP.exe
 - Description:** SFTP, FTP and SCP client
 - Publish:** A button with a lock icon and a green checkmark.

XenAppVSync

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 XenApp 6.5 – Windows Server 2008R2

Microsoft App-V 5.0 Infrastructure (SP3 recommended)

Microsoft App-V 5.0 Client and [XDApVLauncher](#) Agent installed on all XenApp Workers

Citrix NetScaler (Optional load balancing / content caching)

System Permissions

Group Membership

Membership of Citrix XenApp administrators (Domain Group)

Membership of Microsoft App-V administrators (Domain Group)

Membership of 'Remote Management Users' or 'Administrators' on Citrix XenApp Brokers (Local Group)

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

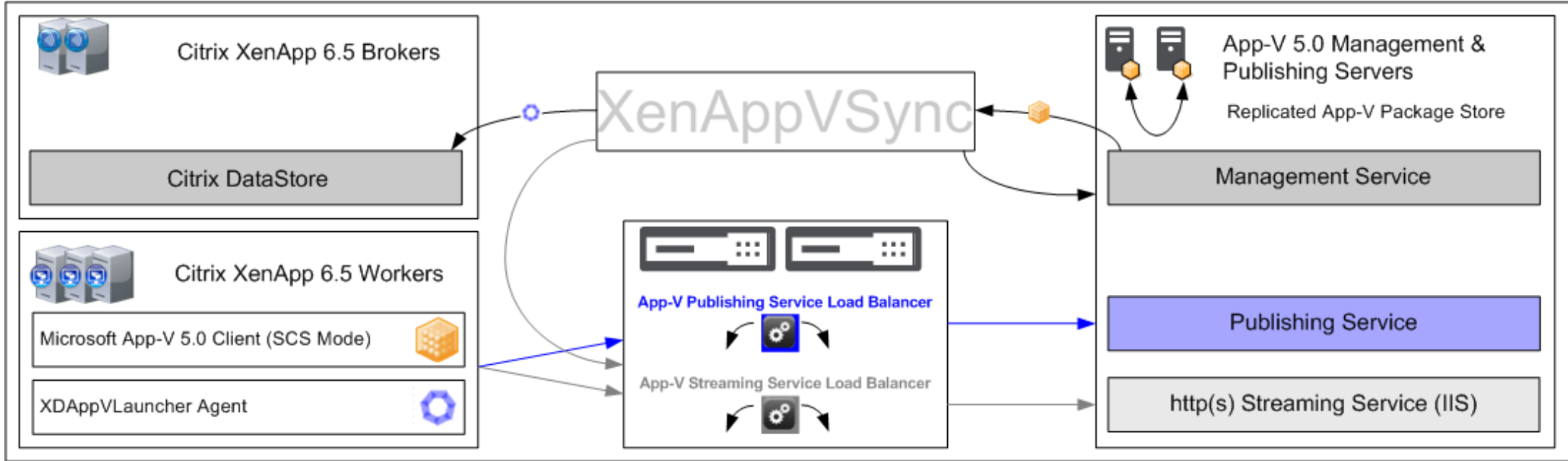
Ports / Communications

Source	Destination	Port	Description
XenAppVSync	App-V Management Servers	5985	WSMan
XenAppVSync	App-V Streaming Service	80 / 443	http / https
XenAppVSync	App-V File Share	445	SMB
XenAppVSync	XenApp Brokers	5985	WSMan

XenAppVSync

Solution Overview

XenAppVSync synchronises Microsoft App-V Applications to Citrix Published App-V Applications



XenAppVSync

Configuration

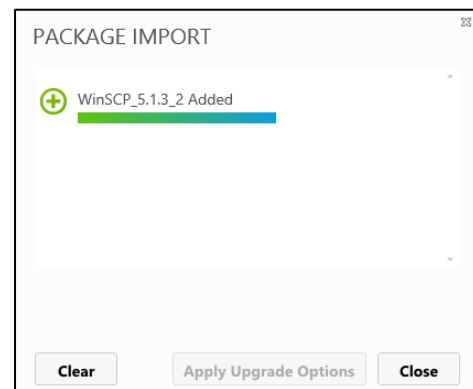
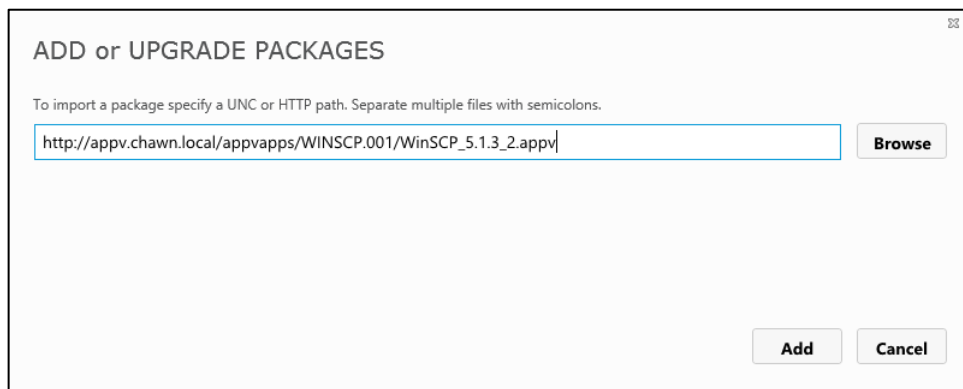
Load Balancing

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.

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.



XenApp Workers / App-V Publishing Server URL

The Microsoft App-V Client 5.0 for RDS must be installed on all Citrix XenApp servers that will host App-V applications.

Additionally the XDAppVLauncher agent is required to synchronise App-V packages at logon and to launch App-V applications. Download XDAppVLauncher from <http://www.chawn.com/XDAppVLauncher.htm> and install on all Citrix XenApp servers that will host App-V applications.

Citrix XenApp servers 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.

An App-V publishing URL must be configured for all Citrix XenApp servers. This may be configured manually using PowerShell cmdlets, or by using Microsoft Group Policy.

App-V Management Servers / Citrix Brokers

XenAppVSync communicates with the App-V Management Service and Citrix XenApp Brokers using PowerShell Remote commands. Therefore the App-V Management Servers and Citrix Brokers must be accessible on port 5985. Please refer to the following article to [Enable and Use Remote Commands in Windows PowerShell](#).

XenAppVSync

Installation

Manual Installation

Download the XenAppVSync installer from http://chawn.com/downloads/XenAppVSync_65.zip and extract the contents.

Run XenAppVSync_650.msi and follow the prompts.



Installation

Silent Installation

The following installation parameters are available:

Parameter	Value
XABROKER	Name of a Citrix XenApp Broker
APPVMGMTSVR	Name of a Microsoft App-V Management Server
LICENSE	License Serial number

Example silent installation.

```
msiexec /i XenAppVSync_650.msi XABROKER=2008R2-XA65DC01 APPVMGMTSVR=2012R2-APPV01  
LICENSE=12345678-87654321 /qb
```

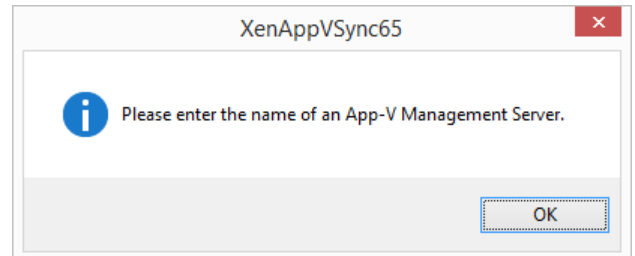
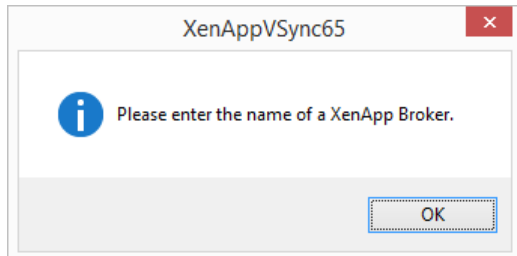
Administrative permissions are required for installation.

XenAppVSync

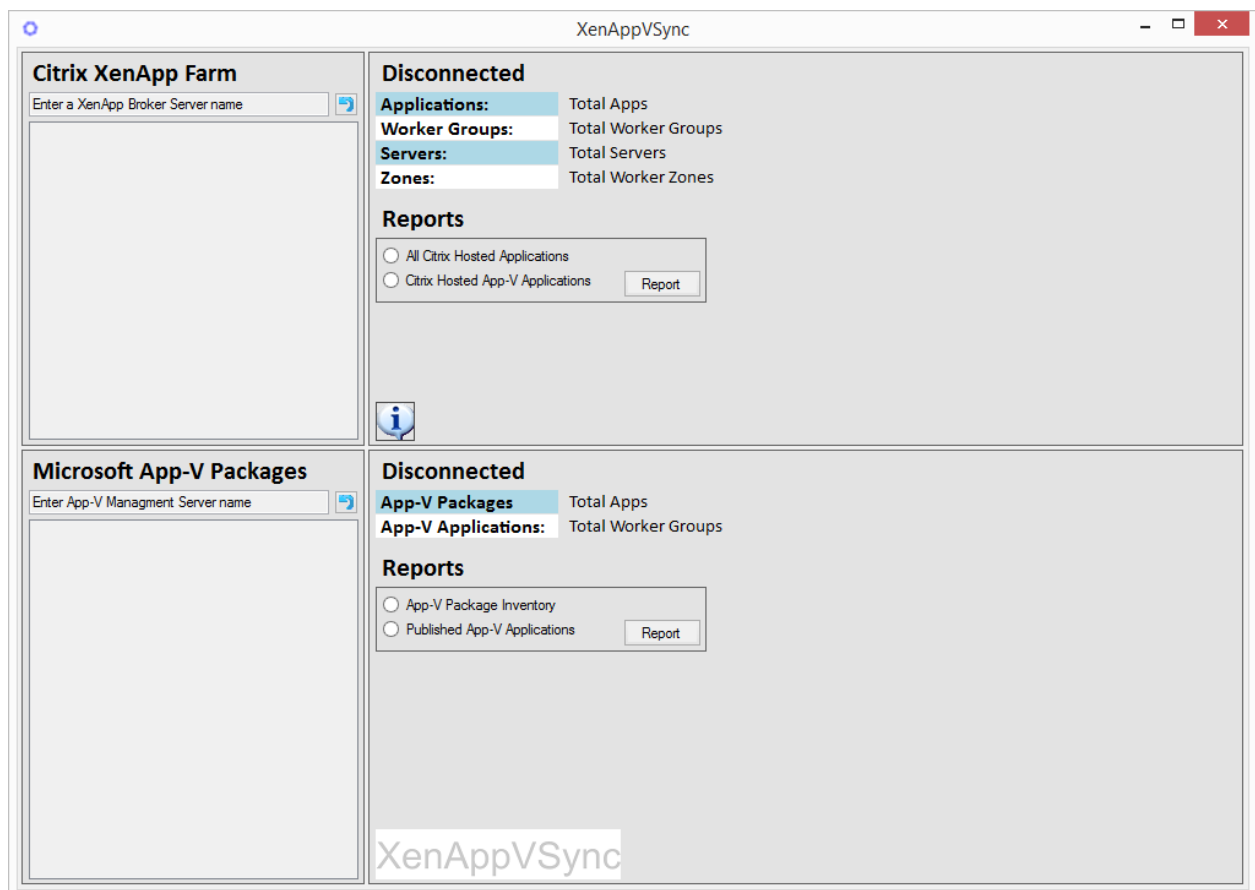
Configure XenAppVSync

First Launch

When launching XenAppVSync for the first time, you will be prompted for Citrix Broker and App-V Management server names.



Enter the required server names and click on the Connect / Refresh button.



If you experience problems connecting to either server;

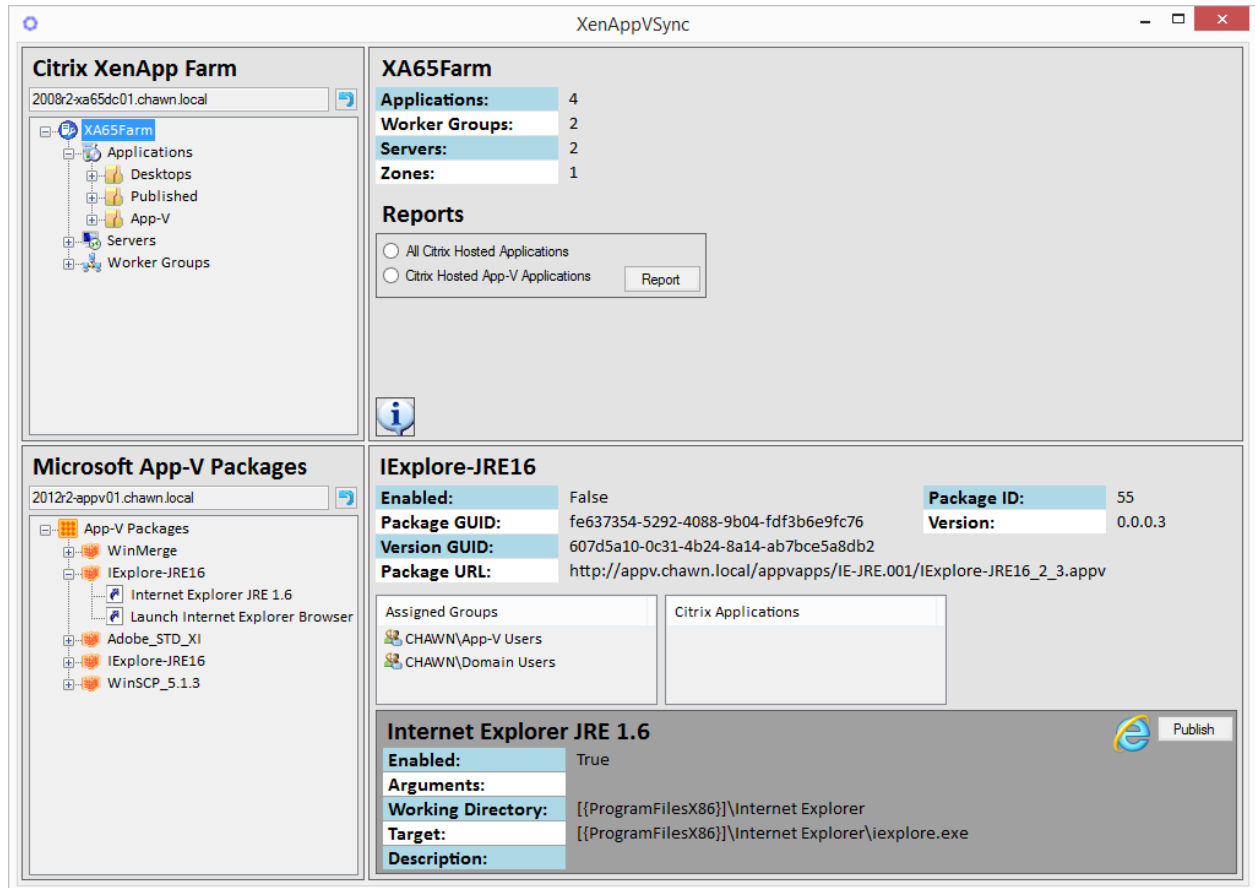
- Verify DNS Names and IP addresses
- Verify that the server is listening on port 5985
- Validate that no firewalls are blocking connectivity
- Verify that the user is a member of all required Security Groups

XenAppVSync

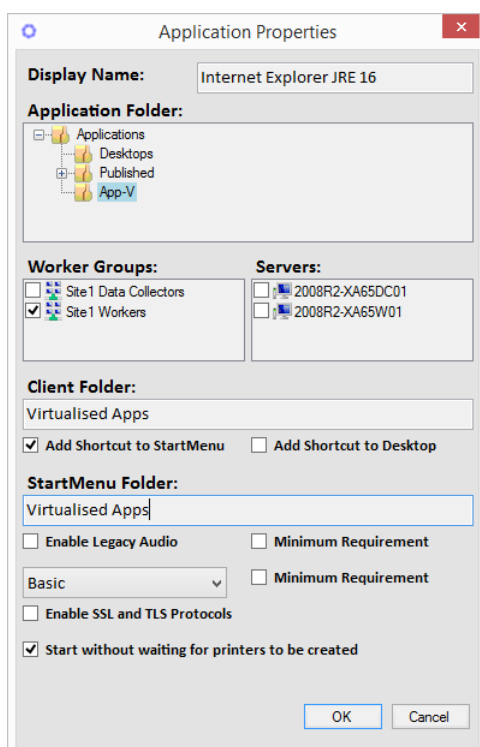
Create Citrix Published App-V Applications

Launch XenAppVSync

Select an App-V package and then select the App-V Application that you wish to publish.



Click 'Publish Application'.

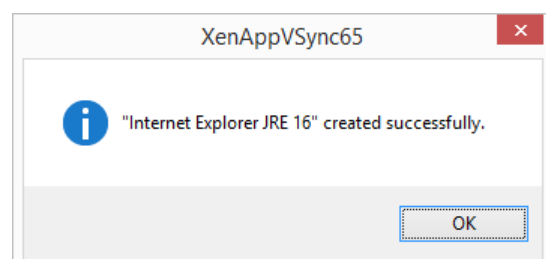


Select an 'Application Folder'.

Select 'Worker Groups' or 'Servers' that will host the App-V application.

Complete any other required properties.

Click OK.

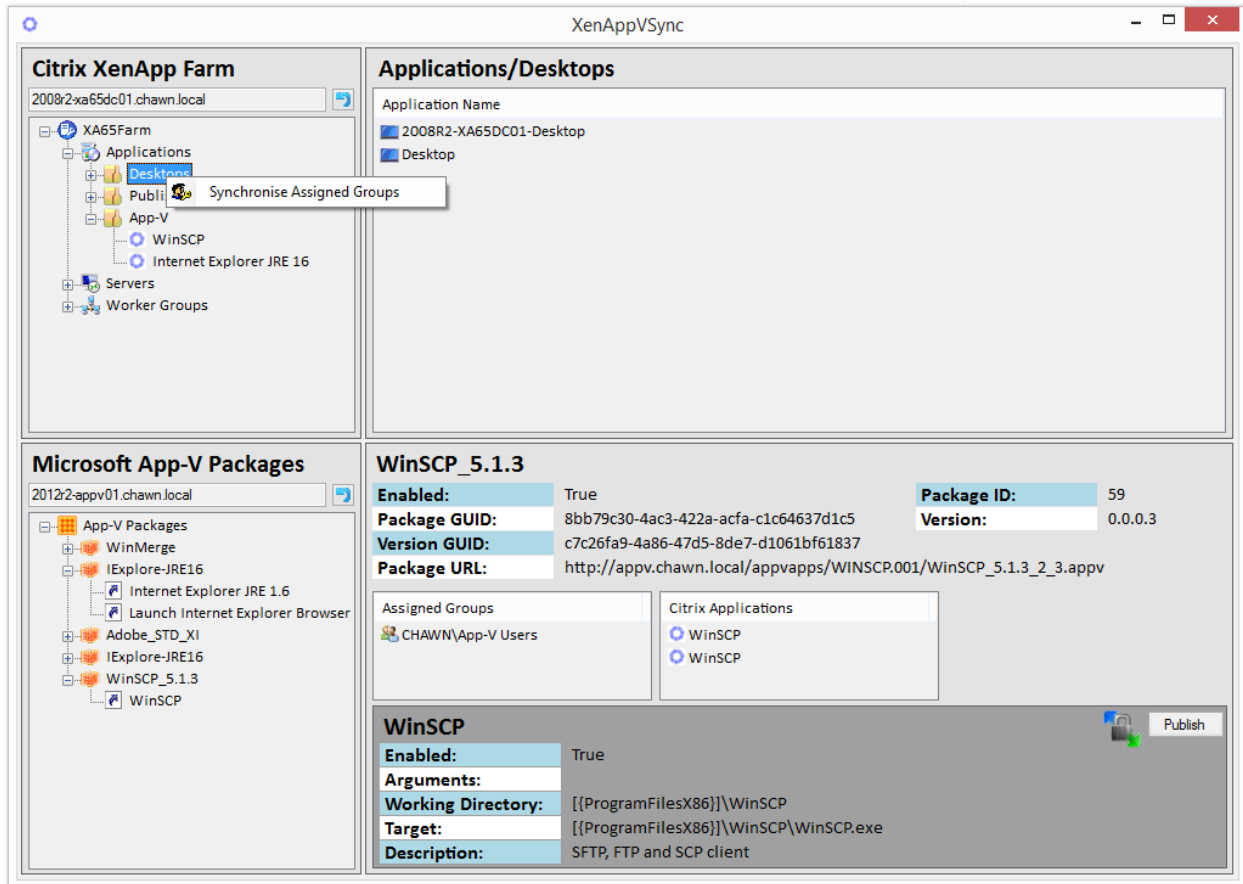


XenAppVSync

Synchronise Application Security Groups

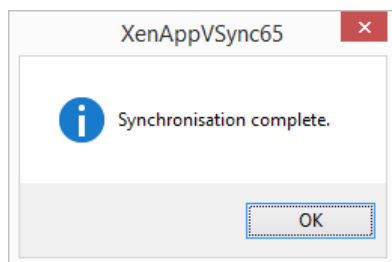
Manually

Right Click any 'Application Folder' in the Citrix XenApp Farm browser window and click 'Synchronise Assigned Groups'



Security Groups that are assigned to App-V packages are synchronised to the corresponding Citrix Published applications.

When complete, the following message is displayed.



A log file located in %TEMP%\Chawn\XenAppVSync records all synchronisation activity.

XenAppVSync

Synchronise Application Security Groups

Silently

Configure the following registry values on the machine running XenAppVSync to reflect the names of your Citrix XenApp Broker, and Microsoft App-V management Server.

```
[HKEY_LOCAL_MACHINE\Software\Wow6432Node\Chawn\XenAppVSync\Settings]
"AppVMgmtSvr"="2012r2-appv01.chawn.local"
"XABroker"="2008R2-XA65DC01.chawn.local"
```

(These values may be specified during a silent installation of XenAppVSync using MSI properties)

Run XenAppVSync using the following command line argument to silently synchronise Security Groups:

```
XenAppVSync65.exe /sync
```

The following command creates a scheduled task that synchronises assigned security groups at 2am every day.

```
schtasks.exe /create /RU domain\username /RP Password /SC DAILY /TN "Sync AppV Security" /TR "'C:\Program Files (x86)\Chawn\XenAppVSync\XenAppVSync65.exe' /sync" /ST 02:00
```

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

XenAppVSync

App-V Packages Updates

Sync Application

XenAppVSync maintains the link between an App-V package and a synchronised Citrix Published application using the App-V **Package GUID** and the **Package ID** stored in the Description field, as shown below.

The screenshot shows the XenAppVSync application interface. On the left, there are two tree views: 'Citrix XenApp Farm' and 'Microsoft App-V Packages'. The 'Citrix XenApp Farm' view shows a hierarchy with 'Internet Explorer JRE 16' selected. The 'Microsoft App-V Packages' view shows a hierarchy with 'IExplore-JRE16' selected. The main area displays configuration for 'Internet Explorer JRE 16' (top) and 'IExplore-JRE16' (bottom). A blue arrow points from the 'Description' field of the top application to the 'Package GUID' field of the bottom application. A red arrow points from the 'Package ID' field of the bottom application to the 'Description' field of the top application.

Field	Value
Enabled	False
Browser Name	XAppV_2662864
Application ID	5198-0006-00000333
StartMenu Folder	Virtualised Apps
Client Folder	Virtualised Apps
Application Type	ServerInstalled
Command Line	XDAppVLauncher.exe SW50ZXJuZXQgRXhwbG9yZXIlgSUjFIDEuNg==
Working Directory	Internet Explorer JRE 1.6;fe637354-5292-4088-9b04-fdf3b6e9fc76_55
Description	Internet Explorer JRE 1.6;fe637354-5292-4088-9b04-fdf3b6e9fc76_55

Field	Value
Enabled	False
Package GUID	fe637354-5292-4088-9b04-fdf3b6e9fc76
Version GUID	607d5a10-0c31-4b24-8a14-ab7bce5a8db2
Package URL	http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3.appv
Package ID	55
Version	0.0.0.3

This ensures that Assigned Groups are retrieved from the correct App-V package during synchronisation.

App-V package updates will have a higher **Package ID**.

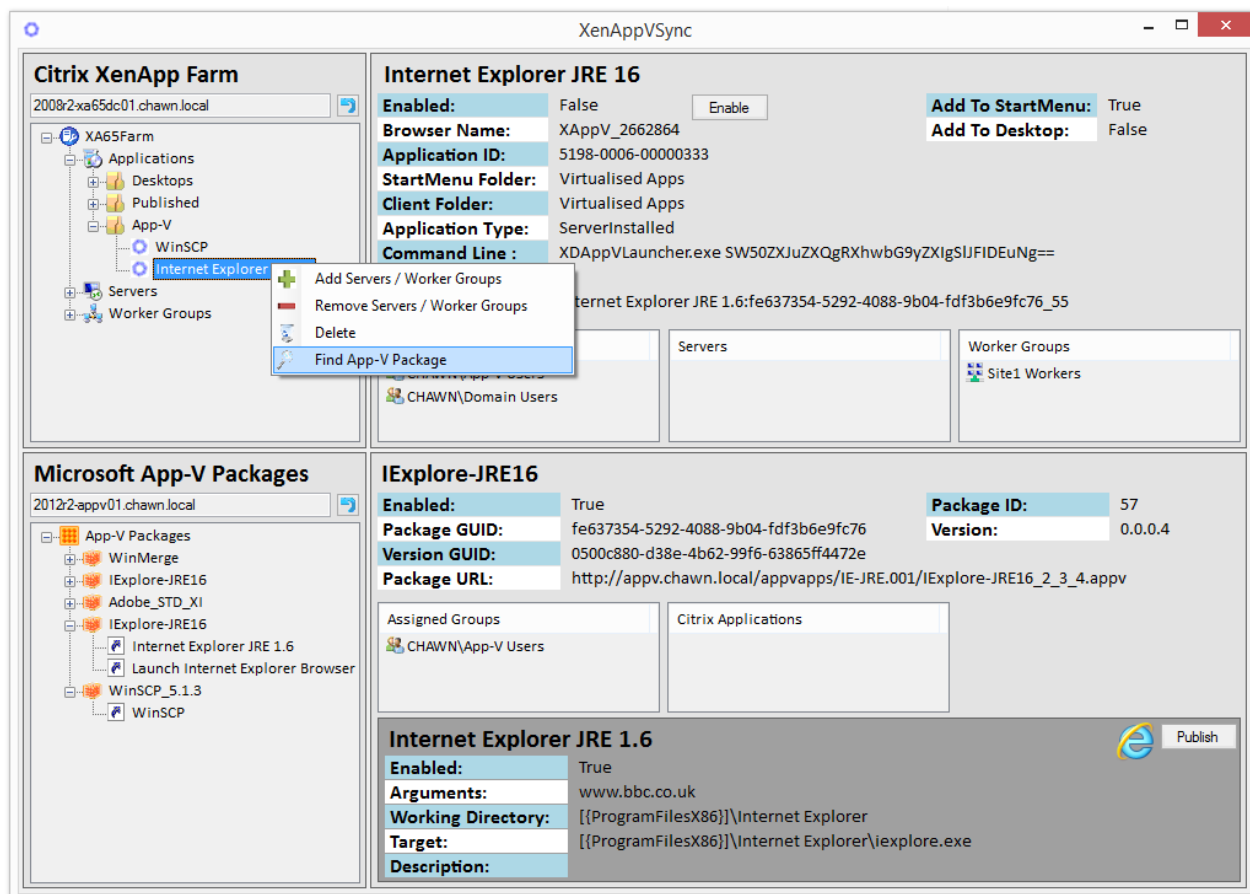
The screenshot shows the XenAppVSync application interface. On the left, the 'Microsoft App-V Packages' view shows a hierarchy with 'Internet Explorer JRE 1.6' selected. The main area displays configuration for 'IExplore-JRE16' (top) and 'Internet Explorer JRE 1.6' (bottom). A 'Publish' button is visible next to the 'Internet Explorer JRE 1.6' configuration.

Field	Value
Enabled	True
Package GUID	fe637354-5292-4088-9b04-fdf3b6e9fc76
Version GUID	0500c880-d38e-4b62-99f6-63865ff4472e
Package URL	http://appv.chawn.local/appvapps/IE-JRE.001/IExplore-JRE16_2_3_4.appv
Package ID	57
Version	0.0.0.4

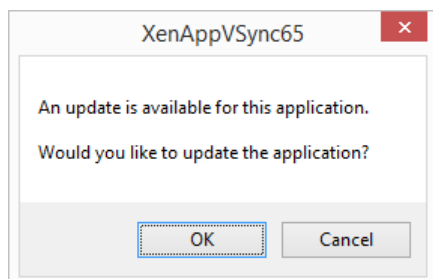
Field	Value
Enabled	True
Arguments	www.bbc.co.uk
Working Directory	[[ProgramFilesX86]]\Internet Explorer
Target	[[ProgramFilesX86]]\Internet Explorer\iexplore.exe
Description	

Following successful testing and approval of the updated App-V package, the Citrix Published Applications must be updated to maintain Assigned Group synchronisation in the future.

Right click the Citrix Published application and select 'Find App-V Package'.

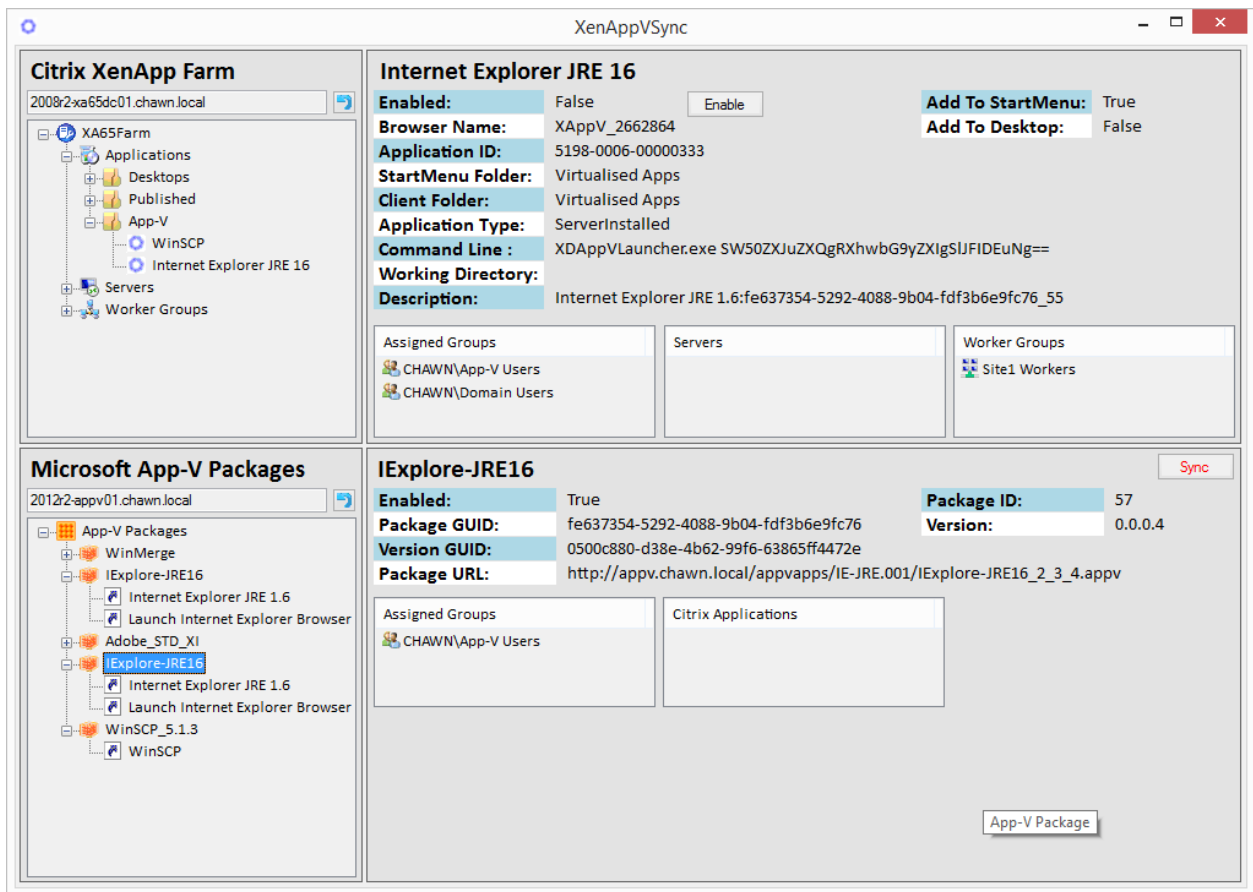


If an update is detected, the following message is displayed.



Click OK.

XenAppVSync will select the updated App-V package, and display the 'Sync' button.

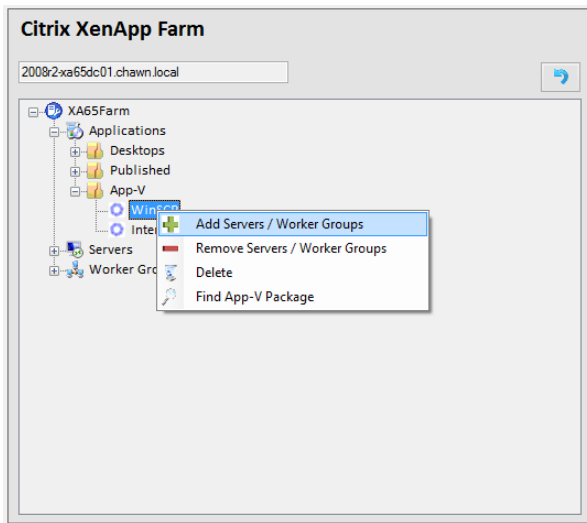


Click the Sync button to update the Citrix Published application link and to synchronise the Assigned Groups from the App-V package to the Citrix Published application.

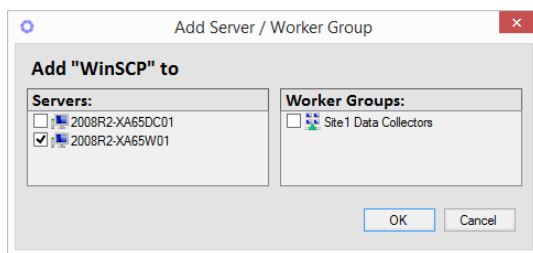
XenAppVSync

Other Functions

Add Citrix Published applications to Servers / Worker Groups



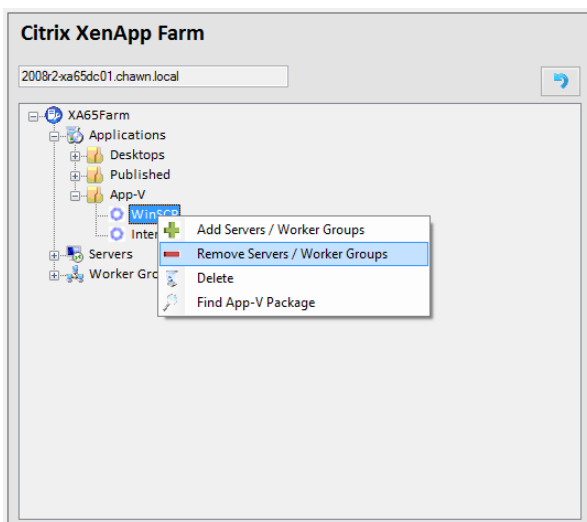
Right click a Citrix Published application and click 'Add Servers / Worker Groups'.



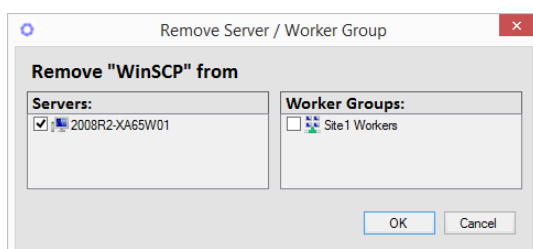
Select required Servers and Worker Groups.

Click OK.

Remove Citrix Published applications from Servers / Worker Groups



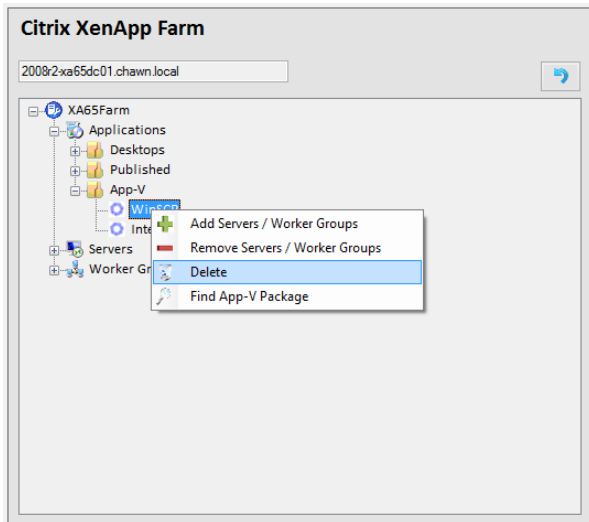
Right click a Citrix Published application and click 'Remove Servers / Worker Groups'.



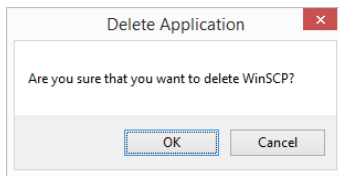
Select required Servers and Worker Groups.

Click OK.

Delete Citrix Published applications

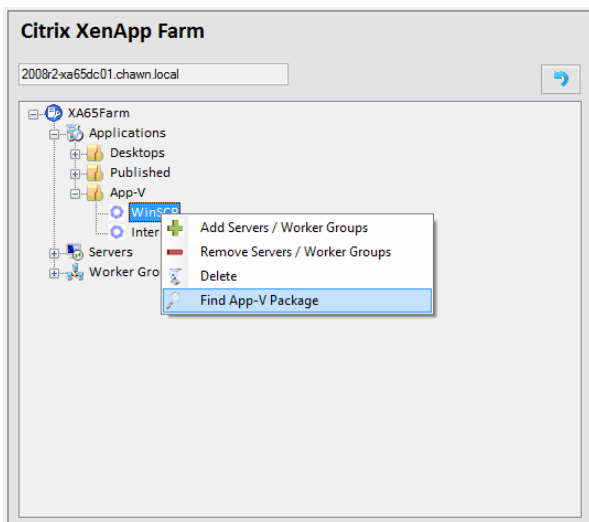


Right click a Citrix Published application and click 'Delete'.

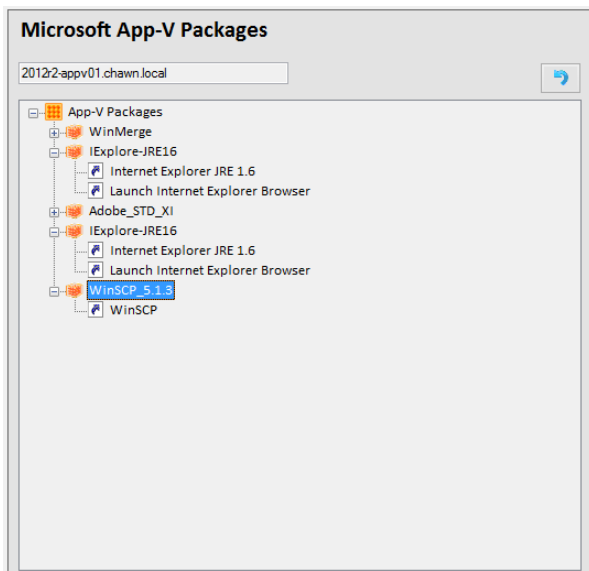



Click OK.

Find App-V Package

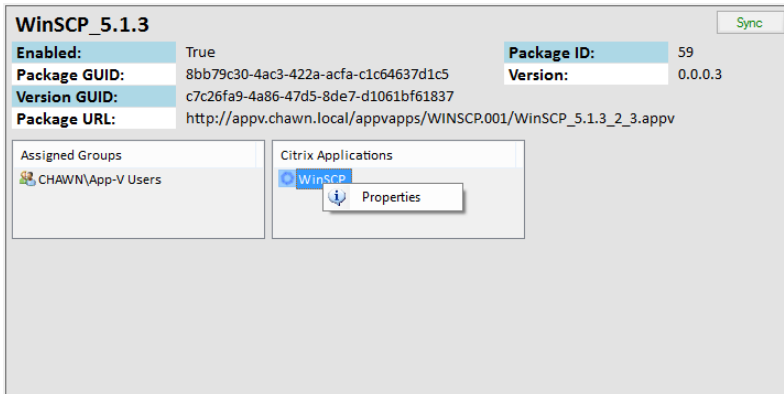


Right click a Citrix Published application and click 'Find App-V Package'.



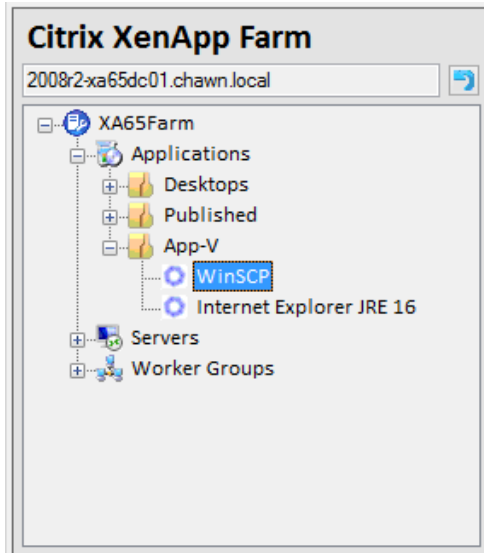
The related App-V Package is selected and enables the  button.

Find Citrix Published Application



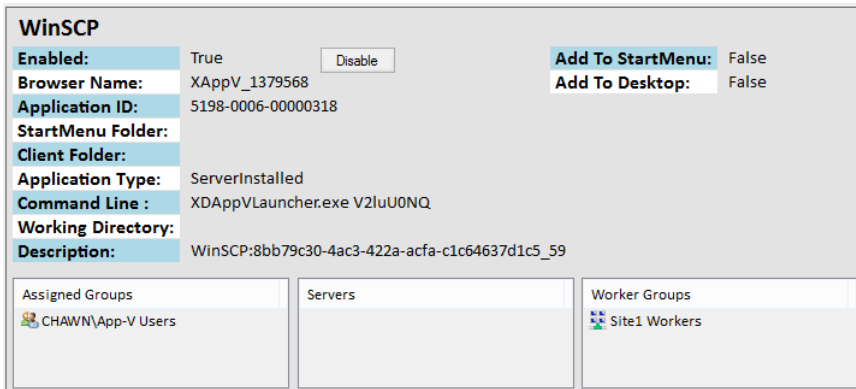
Then App-V Package properties window displays related Citrix Published applications.

Right click a Citrix Published application and click 'Properties'.



The related Citrix Published application is selected.

Enable / Disable Citrix Published Application



Click Enable or Disable.

XenAppVSync

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\XenAppVSync\License.

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

HKEY_LOCAL_MACHINE\Software\Wow6432Node\Chawn\XenAppVSync\License.

For licensing enquiries please contact Chawn Limited.

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