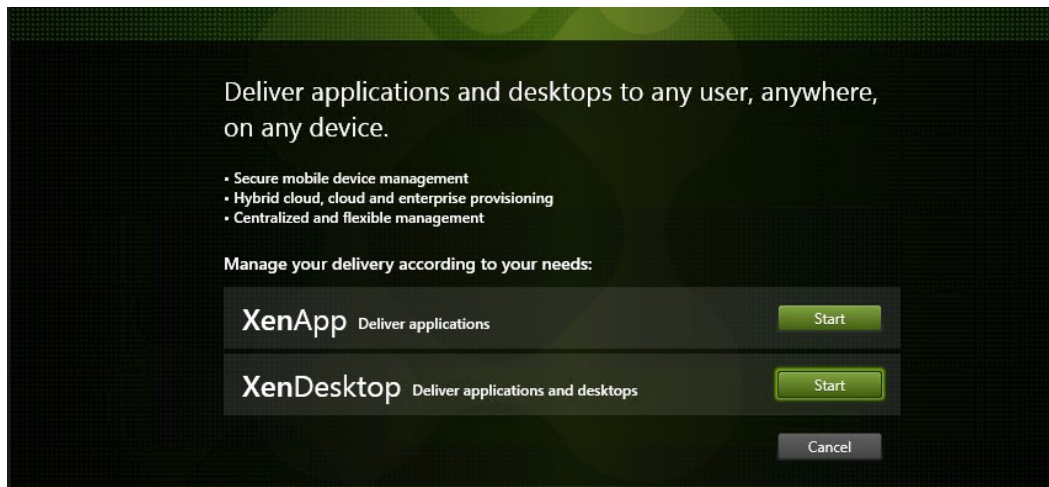


Chapter 1: XenDesktop 7.6 – Upgrading, Installation, and Configuration

Upgrading from XenDesktop 5.6/7.x to XenDesktop 7.6



XenDesktop 7.6

Upgrade

Studio and Server Components

Before any new components are installed, all existing components on this server will be upgraded.

Ensure a Successful Upgrade...

Follow these steps and ensure your deployment remains available to your users after each upgrade step.



- 1 Make sure that your Subscription Advantage date for licenses is no earlier than Unknown.
- 2 Back up the Delivery Controller databases.
- 3 Upgrade Director if it is installed on a separate machine from your Delivery Controllers.
- 4 Backup templates and upgrade hypervisors (optional).
- 5 Upgrade Provisioning Services if in use.
- 6 Upgrade the Virtual Delivery Agent and perform an image update on all master images.
- 7 Upgrade half of your Delivery Controllers (all components).
- 8 Use the upgraded version of Studio to perform Site upgrade.
- 9 Upgrade your remaining Delivery Controllers (all components).

Important: Please read the upgrade documentation. [Learn more](#)

[Copy these instructions to clipboard](#)

I'm ready to continue.

Back

Next

Cancel

Finish Installation

The installation completed successfully. ✔ Success

Core Components	
✔ Delivery Controller	Upgraded
✔ Studio	Upgraded
✔ Director	Upgraded
✔ License Server	Upgraded
✔ StoreFront	Upgraded

Post Install	
✔ Component Initialization	Initialized

Launch Studio

Environment

Configuration

I want to:

- Create a Master Image**
Select this option if you use Machine Creation Services or Provisioning Services to create virtual desktops from this master image.
- Enable Remote PC Access**
Select this option to install the Virtual Delivery Agent onto either a physical machine or a virtual machine that has been provisioned without the VDA.

Provisioning Services Database Script Generator

New database for 2008 New database for 2012 or higher Upgrade database

Script file name:
PVS7-Database-Upgrade ...

Database name:
ProvisioningServices

Farm name:
Farm

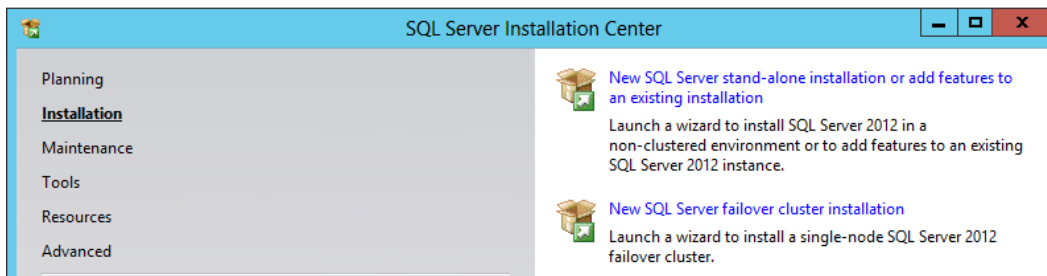
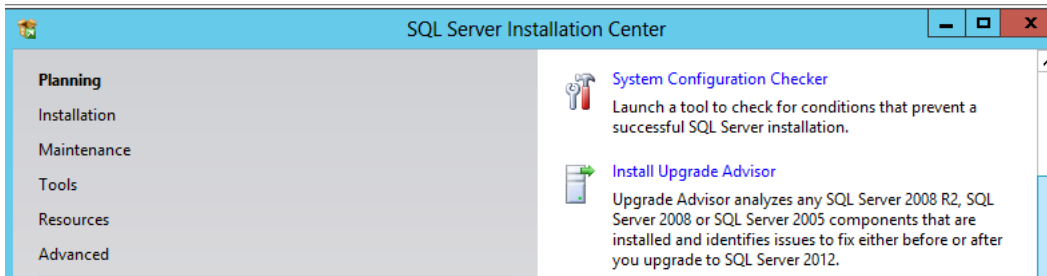
Site name:
Site

Collection name:
Collection

Farm Administrator group:
XDSEVEN.local/Users/Domain Users

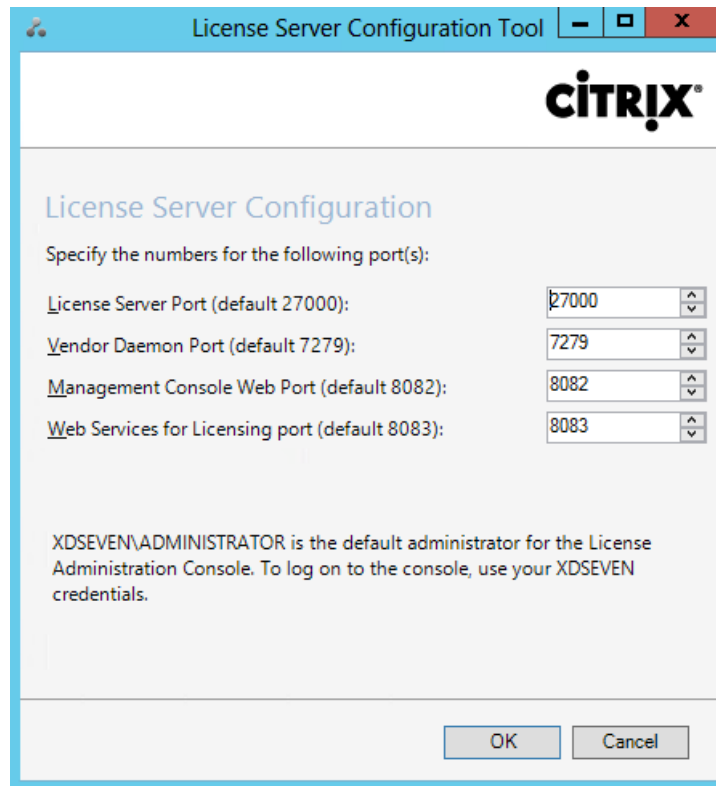
OK Cancel

Preparing the SQL Server 2012 Database



Installing and configuring the Citrix Licensing Services (11.12.1)

:



The screenshot shows a window titled "License Server Configuration Tool" with the Citrix logo in the top right corner. The main heading is "License Server Configuration". Below this, it says "Specify the numbers for the following port(s):". There are four rows, each with a label and a spin box:

- License Server Port (default 27000): 27000
- Vendor Daemon Port (default 7279): 7279
- Management Console Web Port (default 8082): 8082
- Web Services for Licensing port (default 8083): 8083

Below the spin boxes, there is a text block: "XDSEVEN\ADMINISTRATOR is the default administrator for the License Administration Console. To log on to the console, use your XDSEVEN credentials." At the bottom right, there are "OK" and "Cancel" buttons.



Log On

User Name:
XDSEVEN\administrator

Password:
.....

Display Language:
English

Remember me

Submit **Cancel**

User Configuration > New User

System Information

User Configuration

Alert Configuration

Server Configuration

Vendor Daemon Configuration

***Role:**

First Name:

Last Name:

*** Password:**

*** Confirm Password:**

User must change password on next logon

Server Configuration

Web Server Configuration

Secure Web Server Configuration

Enable HTTPS (Default 443)

***HTTPS Port:**

***Certificate File:**

***Certificate Key File:**

Certificate Chain File:

Redirect non-secure web access to secure web access

License Server Configuration

Logging

User Interface

Installing XenDesktop 7.6 components

Deliver applications and desktops to any user, anywhere, on any device.

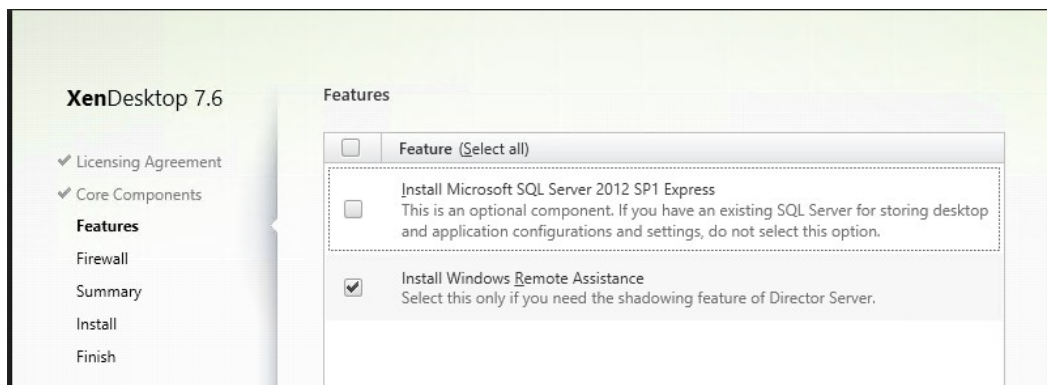
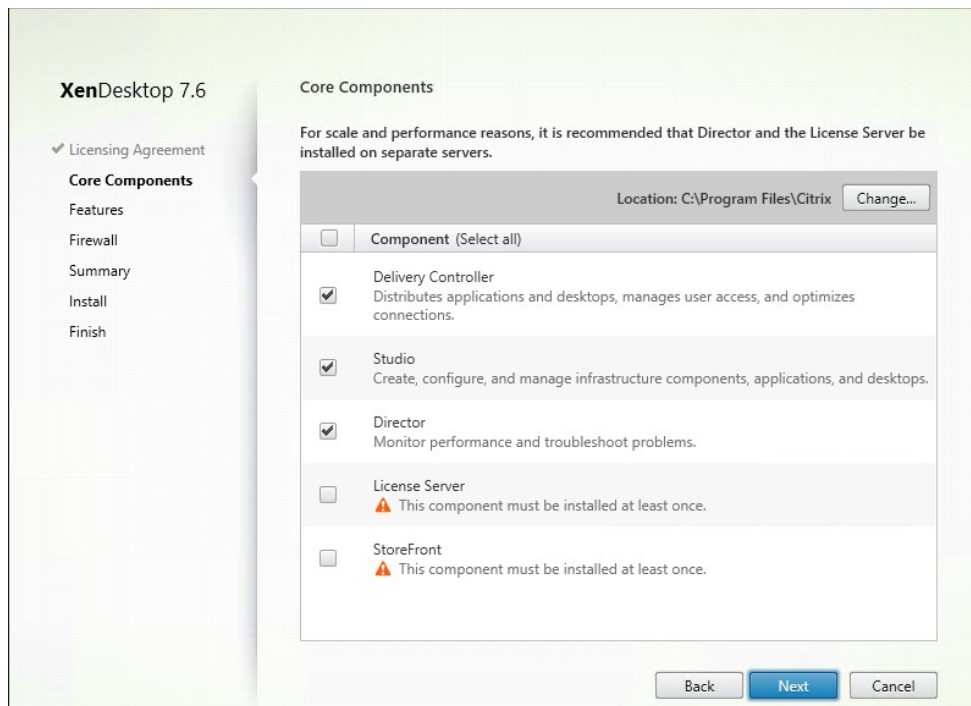
- Secure mobile device management
- Hybrid cloud, cloud and enterprise provisioning
- Centralized and flexible management

Manage your delivery according to your needs:

XenApp Deliver applications	<input type="button" value="Start"/>
XenDesktop Deliver applications and desktops	<input type="button" value="Start"/>
<input type="button" value="Cancel"/>	

XenDesktop 7.6

Get Started	Prepare Machines and Images	Extend Deployment
Delivery Controller Start here. Select and install the Delivery Controller and other essential services like License Server and StoreFront.	Virtual Delivery Agent for Windows Server OS Install this agent to deliver applications and desktops from server-based VMs or physical machines.	Citrix Director More Info
	Virtual Delivery Agent for Windows Desktop OS Cannot be installed on this operating system.	Citrix License Server More Info
		Citrix StoreFront More Info
		Citrix Studio More Info
		Universal Print Server More Info



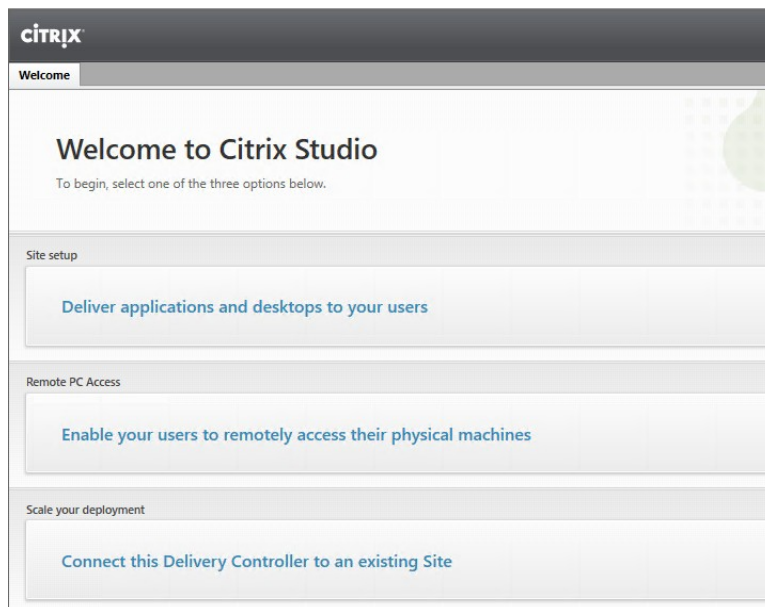
Firewall

The default ports are listed below. [Printable version](#)

Delivery Controller	Director
80 TCP 443 TCP	80, 443 TCP

Configure firewall rules:

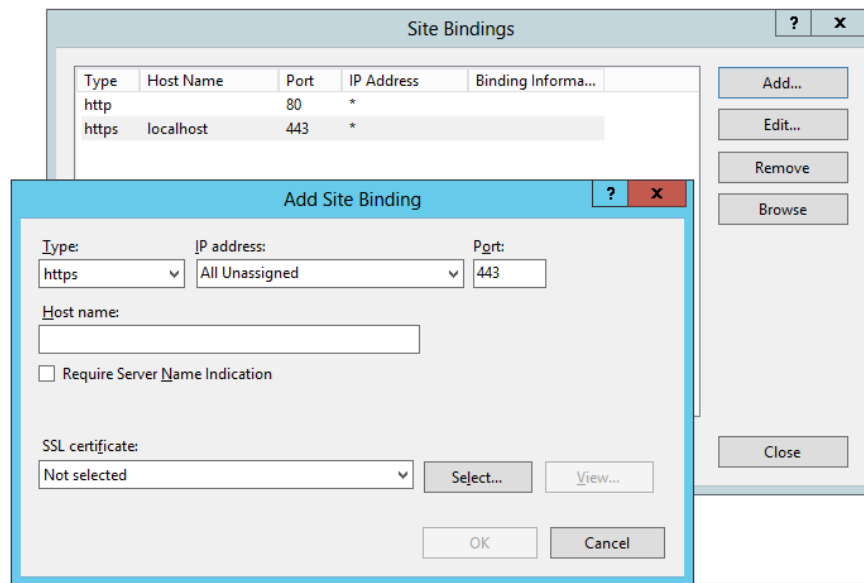
- Automatically**
Select this option to automatically create the rules in the Windows Firewall. The rules will be created even if the Windows Firewall is turned off.
- Manually**
Select this option if you are not using Windows Firewall or if you want to create the rules yourself.



The image shows the Citrix Studio Welcome screen. At the top left is the Citrix logo. Below it is a 'Welcome' tab. The main heading is 'Welcome to Citrix Studio' with a sub-heading 'To begin, select one of the three options below.' There are three main sections, each with a button:

- Site setup**: Deliver applications and desktops to your users
- Remote PC Access**: Enable your users to remotely access their physical machines
- Scale your deployment**: Connect this Delivery Controller to an existing Site

Installing and configuring StoreFront 2.6



Welcome to StoreFront

Select an option below to create a new store or extend your existing deployment

Create a new deployment

Set up a deployment to deliver self-service apps, data, and desktops to your users.

Join existing server group

Add a server to an existing load-balanced group.

StoreFront

Base URL
Store Name
Delivery Controllers
Remote Access

Create New Deployment

Confirm the base URL for services hosted on this deployment. For multiple server deployments, specify load-balanced URL for the server group.

Base URL:

Add Delivery Controller

Display name:

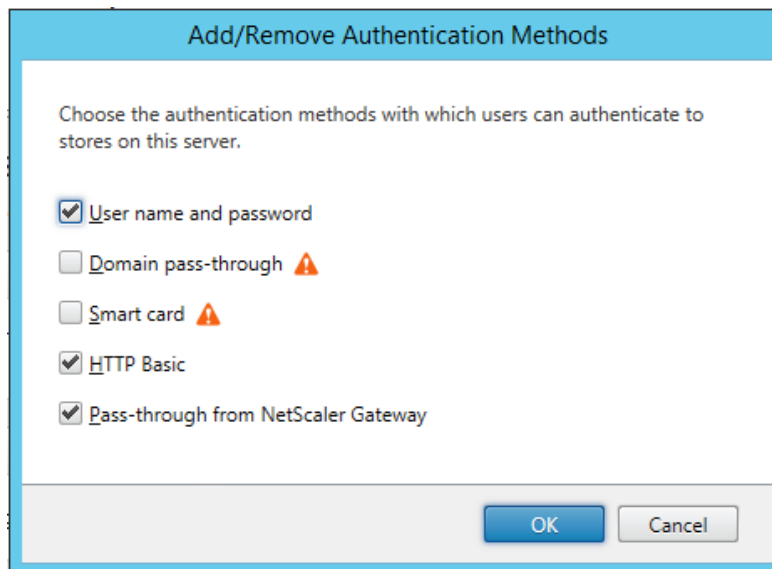
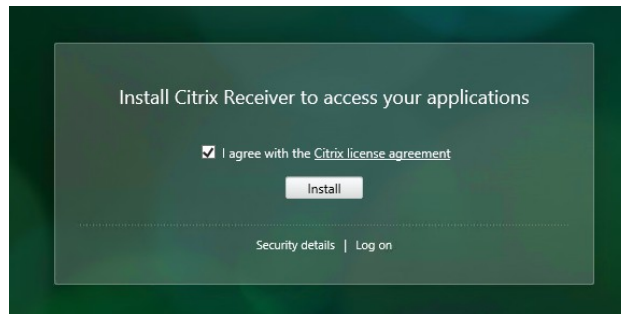
Type:

- XenApp 7.5 (or later), or XenDesktop
- XenApp 6.5 (or earlier)
- AppController
- VDI-in-a-Box

Servers (load balanced):

Transport type:

Port:



Configure Trusted Domains

Allow users to log on from: Any domain
 Trusted domains only

Trusted domains: XDSEVEN.local

Default domain: XDSEVEN.local

Show domains list in logon page

Manage Password Options

Manage Password Options

Allow users to change passwords: At any time
 When expired
 Never

Export Multi-Store Provisioning File

Select the stores to include in this file. If you have remote users, enable remote access before exporting this file.

Store	Access
<input type="checkbox"/> WBIStore	Internal and external networks
<input type="checkbox"/> WBIStoreST	Internal and external networks

Select all

Integrate with Citrix Online

Include the following Citrix Online products in the store:

-  **GoToMeeting**
-  **GoToWebinar**
-  **GoToTraining**

When users add a Citrix Online application:

- Help users set up a trial account, if required
- Ask users to contact their help desk for an account
- Add the application immediately

Choose Authentication Methods

Choose the authentication methods with which users can authenticate to the website.

Authentication methods:

- User name and password
- Domain pass-through
- Smart card
- Pass-through from NetScaler Gateway

i Use the [Add/Remove Methods](#) task to add more authentication methods.

OK Cancel

Deploy Citrix Receiver

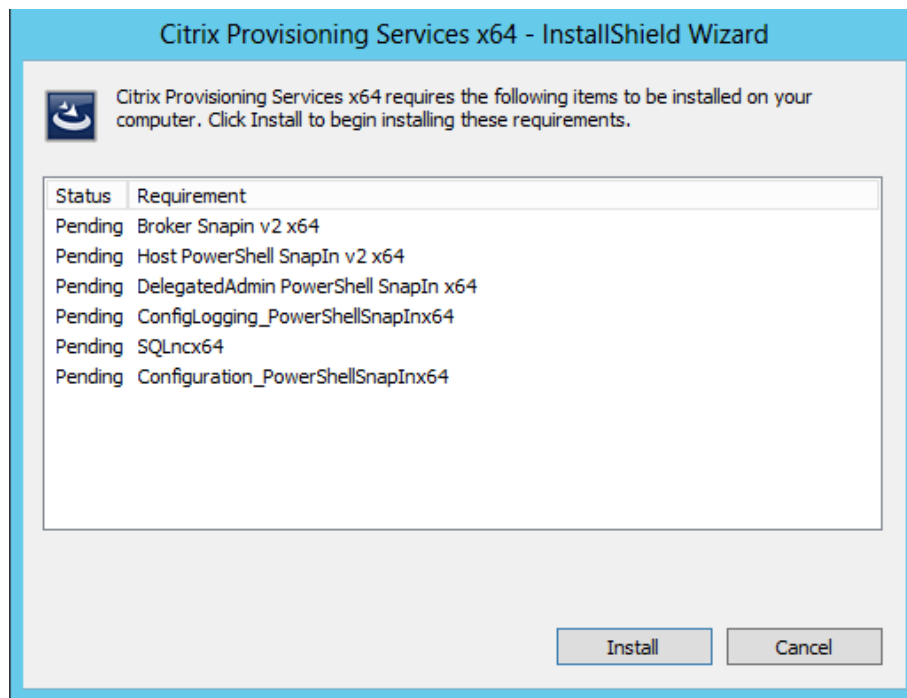
For the best user experience, Receiver for Web sites detect Windows and Mac OS X devices and offer users the opportunity to download and install Citrix Receiver. If users cannot install Citrix Receiver, enable Receiver for HTML5.

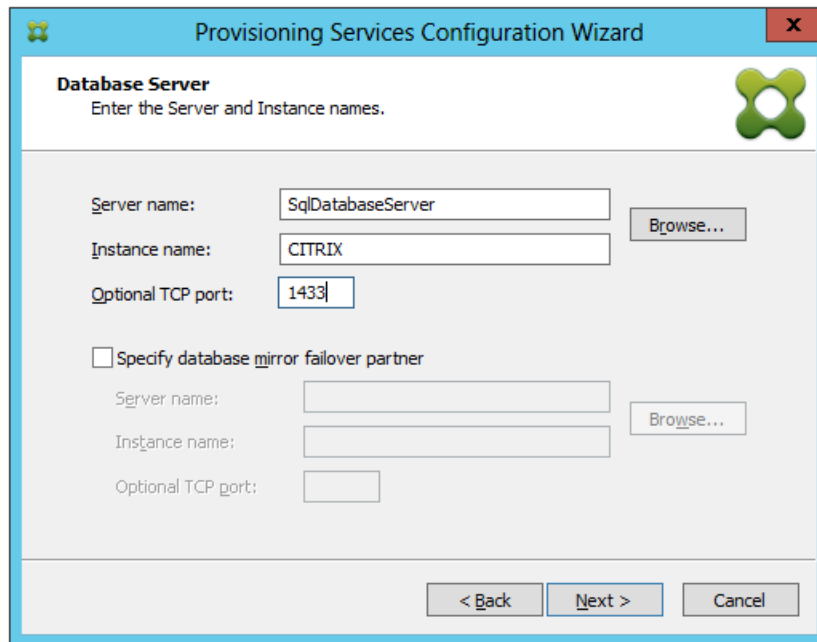
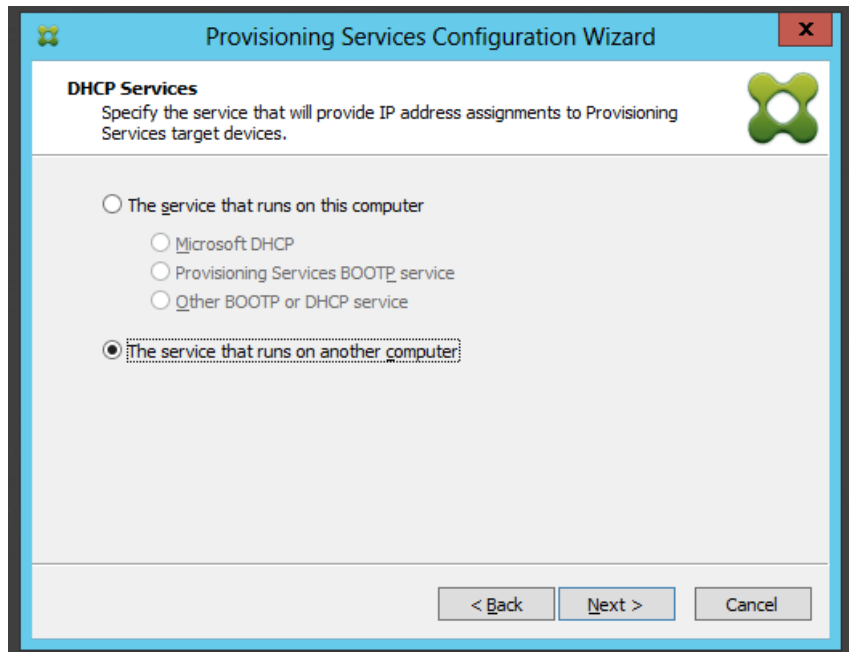
Choose how to deploy Citrix Receiver:



- Install locally
- Use Receiver for HTML5 if local install fails **i**
- Always use Receiver for HTML5


OK Cancel

Installing and configuring Provisioning Services 7.6





 **Provisioning Services Configuration Wizard** 

New Farm 

Enter the new Database and Farm names.

Database name:

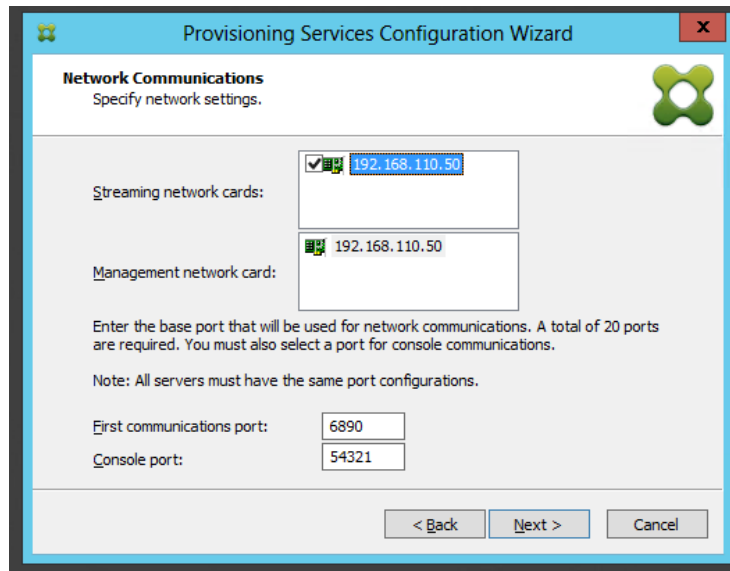
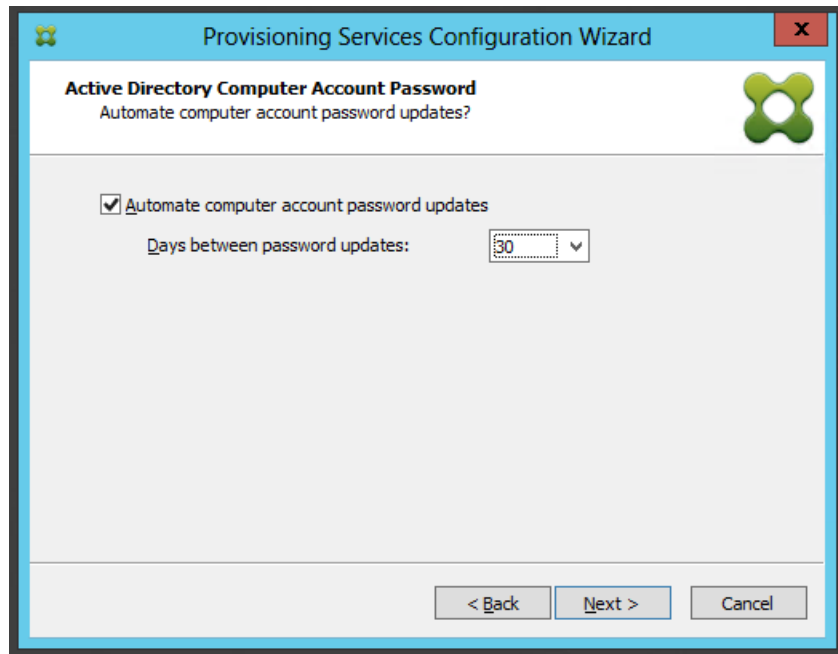
Farm name:

Site name:

Collection name:

Use Active Directory groups for security
 Use Windows groups for security

Farm Administrator group:



Provisioning Services Configuration Wizard

Stream Servers Boot List

Specify at least 1 and at most 4 boot servers.

The bootstrap file specifies what servers target devices may contact to complete the boot process.

Server IP Address	Server Port	Device Subnet Mask	Device Gateway
192.168.110.50	6910	255.255.255.0	192.168.110.1

Advanced Stream Servers Boot List

Verbose mode (Display diagnostic information)
 Interrupt safe mode (Select if target device hangs during boot)
 Advanced Memory Support

Network recovery method: after seconds

Login polling timeout: milliseconds (valid range 1000 to 60000)

Login general timeout: milliseconds (valid range 1000 to 60000)

Finish

Confirm configuration settings.



- Stopping Network Services
- Stopping Software Stream Service
- Configuring Services
- Starting Software Stream Services
- Starting Network Services**

Starting Citrix PVS Soap Service

< Back

Finish

Cancel

Citrix Provisioning Services Console x64 - InstallShield Wizard

Custom Setup

Select the program features you want installed.

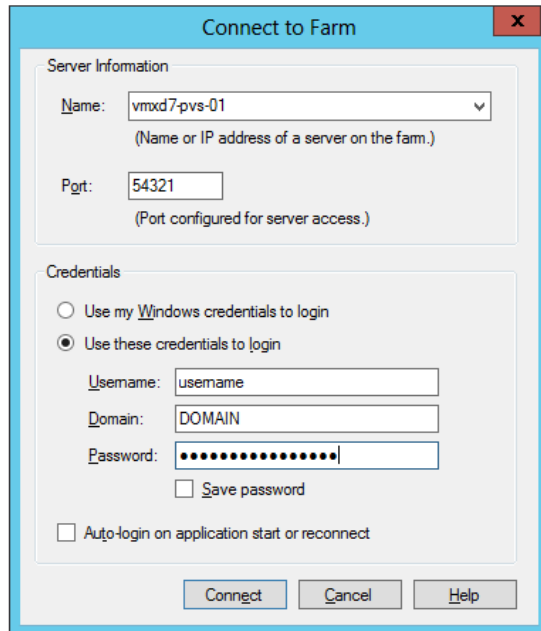
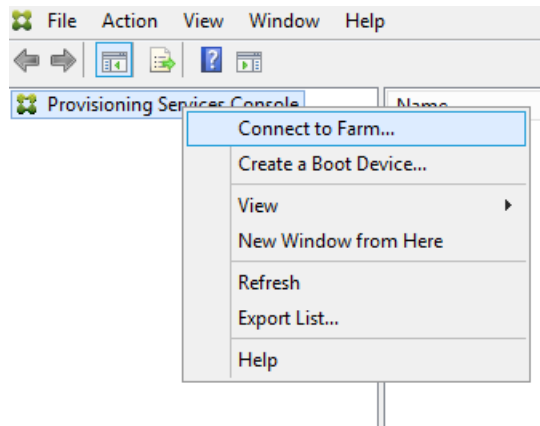
Click on an icon in the list below to change how a feature is installed.

Feature	Feature Description
<input checked="" type="checkbox"/> Provisioning Services Console	This feature requires 31MB on your hard drive.
<input type="checkbox"/> Boot Device Manager	

Install to:
C:\Program Files\Citrix\Provisioning Services Console\ Change...

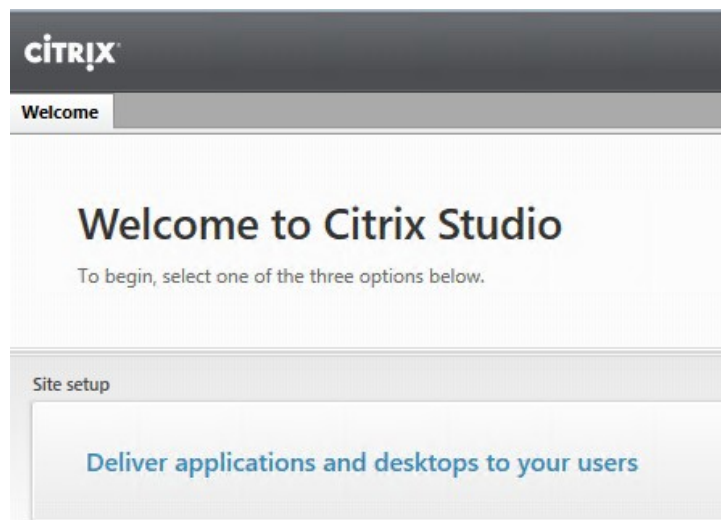
InstallShield

Help Space < Back Next > Cancel



Chapter 2: Configuring and Deploying Virtual Machines for XenDesktop 7.6

Configuring the XenDesktop Site



Introduction

You have two options when creating a new Site. The simplest option is to automatically create a fully configured, production-ready Site. The second, more advanced option is to create an empty Site, which you must configure yourself.

What kind of Site do you want to create?

- A fully configured, production-ready Site (recommended for new users)
- An empty, unconfigured Site

Site name:

Database

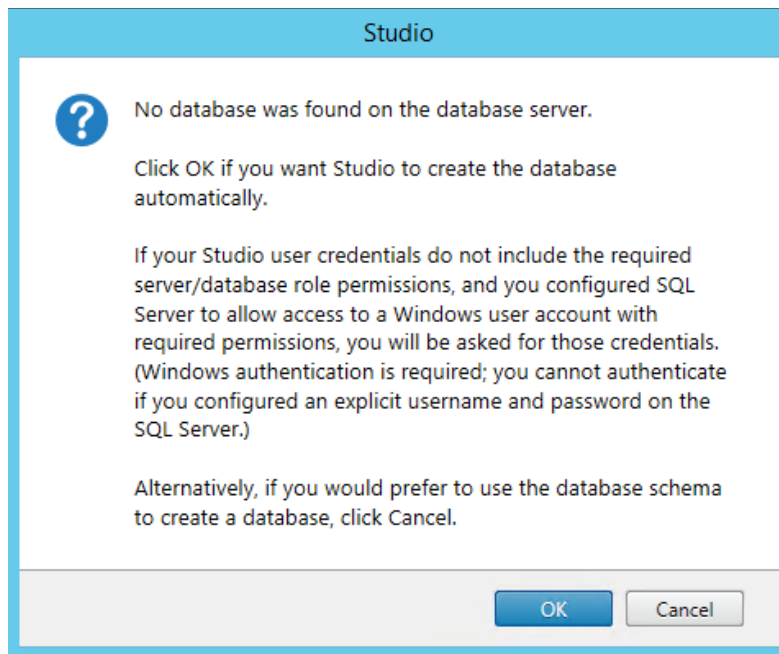
The database stores all Site configuration, logging, and monitoring data.

Database server location:

Database name:


If you do not have permission to edit this database, generate a script to give to your database administrator.

 (Optional)



```
Script_For_Database_SqlDatabaseServer.xdseven.local_CITRIX,1434 - Notepad
File Edit Format View Help
-- To create a database schema for a Site, use this script: execute on the principal SQL Server database instance
-- To learn more, visit http://support.citrix.com/article/CTX127359
-- You can use SQLCMD from the command line to run this script, or you can use SQL Server Management Studio in SQLCMD mode.
-- Note that you must use a collation which ends with "_CI_AS_KS". In general, it is best to use a collation which ends with "_100_CI_AS_KS".
-- To do so, use this command when creating the database:
-- create database [CitrixXD7-Site-First] collate Latin1_General_100_CI_AS_KS
-- go
--
-- protect against generating tables in the wrong place, if database hasn't been created
use [tempdb];
go
if db_id(N'[CitrixXD7-Site-First]') is null
begin
    RAISERROR('Database does not exist', 10, 127);
end
go
-- Ensure the database is using a read committed snapshot
declare @groupId uniqueidentifier = null;
if (serverproperty('IsHadrEnabled') = 1)
begin
```

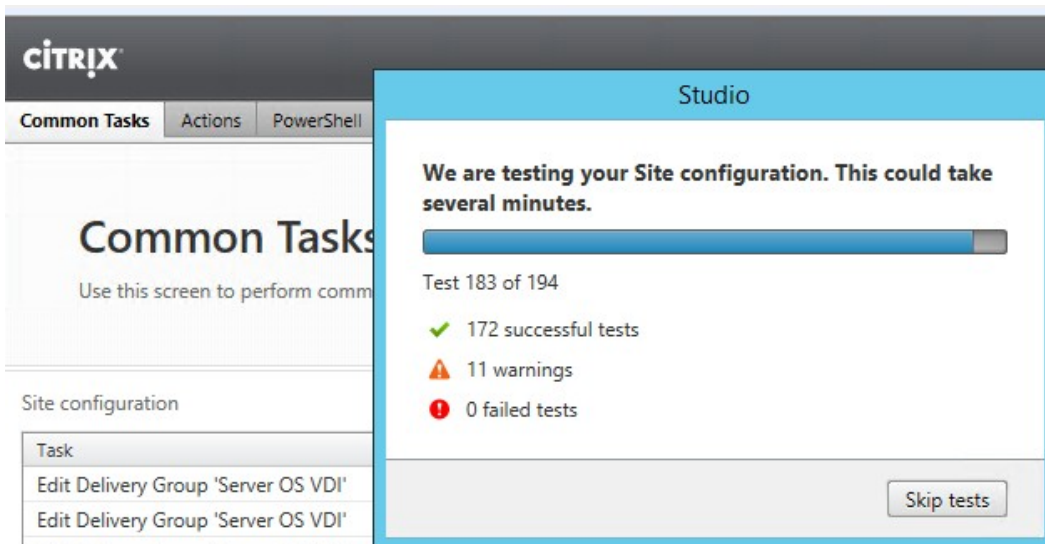
Licensing

License server address: 

Connected to trusted server
[View Certificate](#)

Select a license:

- Use the free 30-day trial
You can add a license later.
- Use an existing license
The product list below is generated by the license server.



CITRIX

Common Tasks | Actions | PowerShell

Common Tasks


Use this screen to perform common tasks.

Site configuration




Task
Edit Delivery Group 'Server OS VDI'
Edit Delivery Group 'Server OS VDI'

Studio

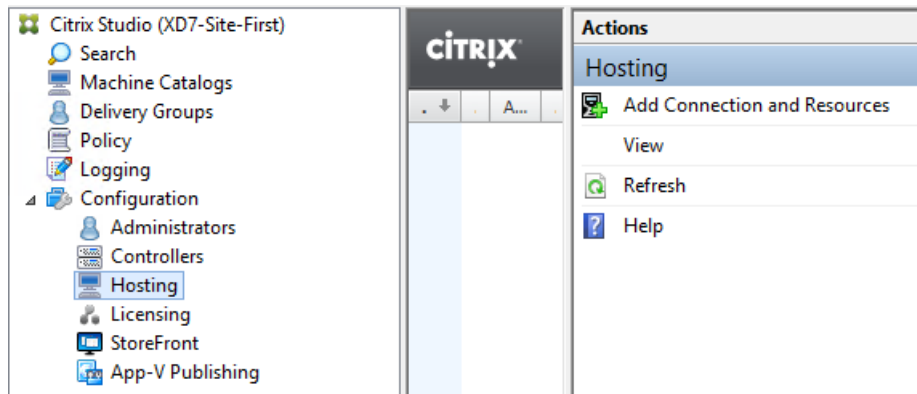
We are testing your Site configuration. This could take several minutes.



Test 183 of 194

-  172 successful tests
-  11 warnings
-  0 failed tests

Configuring XenDesktop 7.6 to interact with Citrix XenServer 6.2



Connection type:

Connection address:

User name:

Password:

Connection name:

The Connection name appears in Studio; it helps administrators identify the Connection.

Create virtual machines using:

Studio tools (Machine Creation Services)

Other tools

Storage

Select one or more storage devices for the new virtual machines:

Shared

Local

Shared

	IntelliCache
<input type="checkbox"/>	Supported
<input type="checkbox"/> DSNFS_02	Supported
<input type="checkbox"/> DSiSCSI_01	Not supported

Use IntelliCache to reduce load on the shared storage device.

[Learn more about IntelliCache](#)

Personal vDisk storage (Desktop OS only): [Learn more](#)

Use same storage for virtual machines and Personal vDisks

Use different storage for Personal vDisks

(None selected)

CITRIX			
Name	Type	Address	State
XenServer-Host	Citrix XenServer®	http://xenserver.xdseven.local	Enabled
XS-602-Host			

Studio

Connection Properties

Advanced

Host address:

Username:

Password:

High availability (HA) servers:

Studio

Connection Properties

Advanced

These settings enable you to specify a maximum number of simultaneous actions, or percentage of machines, per hosting connection. For settings with absolute and percentage values, specify both. The lower of the two values is used.

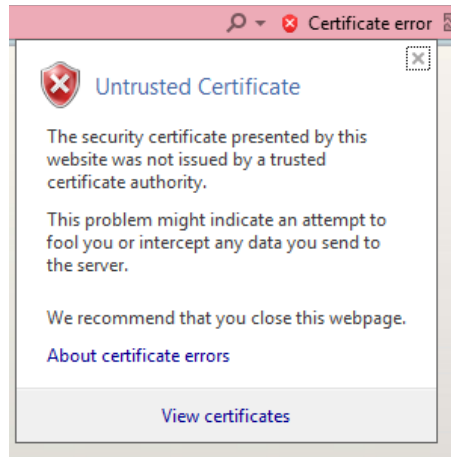
	Absolute	Percentage
Simultaneous actions (all types):	<input type="text" value="100"/>	<input type="text" value="20"/> %
Simultaneous Personal vDisk inventory updates:	<input type="text" value="50"/>	<input type="text" value="25"/> %
Maximum new actions per minute:	<input type="text" value="10"/>	

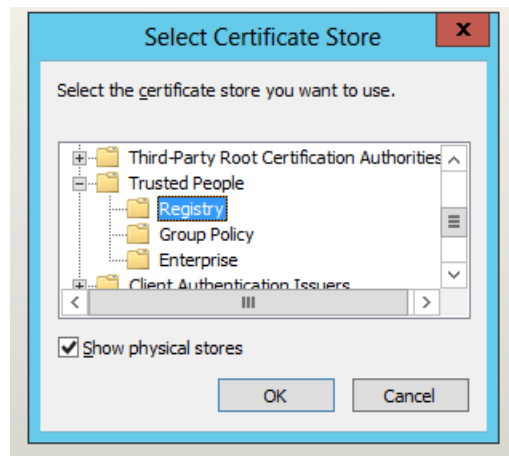
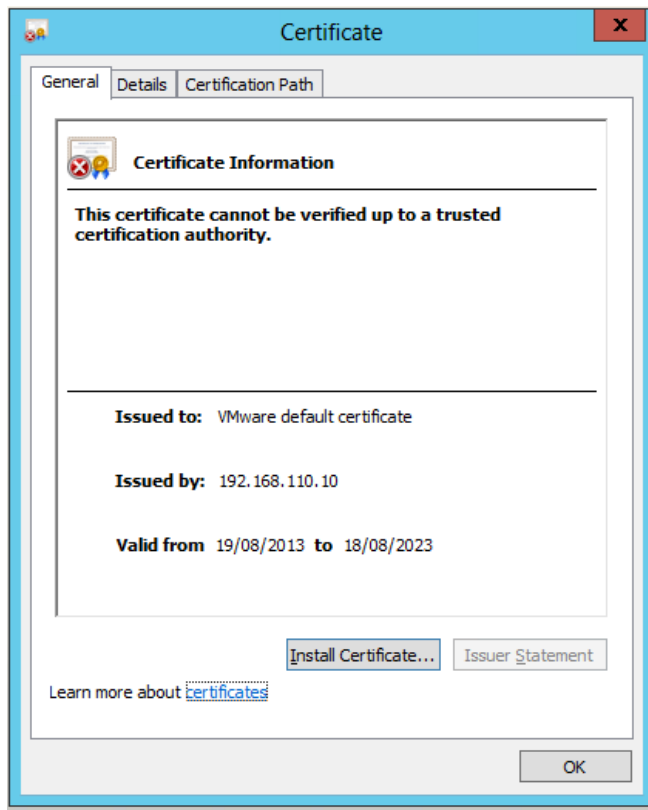
[Learn more](#)

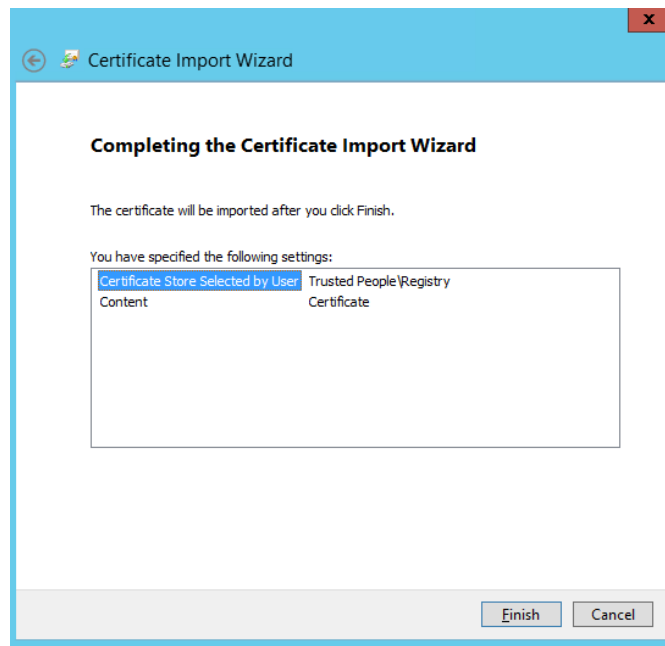
Connection options:

Use this setting only when recommended by Citrix Technical Support or the product documentation.

Configuring XenDesktop 7.6 to interact with VMware vSphere 5.x







Connection type: VMware vSphere®

Connection address: https://vcenter.xdseven.local/sdk

User name: XDSEVEN\administrator

Password: ●●●●●●●●●●●●●●●●

Connection name: VMware

The Connection name appears in Studio; it helps administrators identify the Connection.

Create virtual machines using:

- Studio tools (Machine Creation Services)
- Other tools

Summary

Connection name: XD7-VMware-01
 Connection type: VMware vSphere®
 Connection address: https://vmsd7-vc-01.xdseven.local/sdk
 Create Virtual Machines with: Studio tools (Machine Creation Services)
 Network: VM-LAN
 Virtual Machine storage: datastore1
 Personal vDisk storage: datastore1
 Scopes: All

Resources Name:
 VMware-XD-Connection

Back Finish Cancel

Resource Allocation

Shares: Normal 2000

Reservation: 1000 MHz

Limit: 8080 MHz

Resource Allocation

Reserve all guest memory (All locked)

Shares: Normal 20480

Reservation: 2048 MB

Limit: 13313 MB

Shares: Normal 20480

Reservation: Normal 2048 MB

Low
 Normal
 High
 Custom

Configuring XenDesktop 7.6 to interact with Microsoft Hyper-V

The screenshot shows a configuration wizard interface. On the left is a sidebar with three orange buttons: 'QUICK START' (top), 'WHAT'S NEW' (middle), and 'LEARN MORE' (bottom). To the right of the sidebar is a numbered list of four steps:

- 1 Configure this local server
- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group

Role-based or feature-based installation

Configure a single server by adding roles, role services, and features.

Remote Desktop Services installation

Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

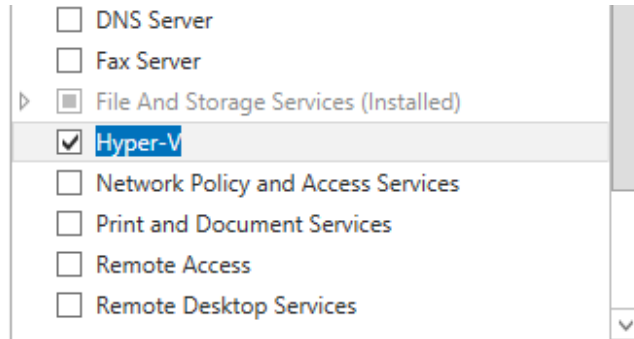
Select a server or a virtual hard disk on which to install roles and features.

Select a server from the server pool

Select a virtual hard disk

Server Pool

Name	IP Address	Operating System
WIN-37FKPD58HPV	192.168.198.128	Microsoft Windows Server 2012 Datacenter



Network adapters:

Name	Description
<input checked="" type="checkbox"/> Ethernet	Intel(R) PRO/1000 MT Network Connection

Hyper-V can be configured to send and receive live migrations of virtual machines on this server. Configuring Hyper-V now enables any available network on this server to be used for live migrations. If you want to dedicate specific networks for live migration, use Hyper-V settings after you install the role.

Allow this server to send and receive live migrations of virtual machines

Authentication protocol

Select the protocol you want to use to authenticate live migrations.

- Use Credential Security Support Provider (CredSSP)
This protocol is less secure than Kerberos, but does not require you to set up constrained delegation. To perform a live migration, you must be logged on to the source server.
- Use Kerberos
This protocol is more secure but requires you to set up constrained delegation in your environment to perform tasks such as live migration when managing this server remotely.

Hyper-V uses default locations to store virtual hard disk files and virtual machine configuration files, unless you specify different locations when you create the files. You can change these default locations now, or you can change them later by modifying Hyper-V settings.

Default location for virtual hard disk files:

C:\Users\Public\Documents\Hyper-V\Virtual Hard Disks

Browse...

Default location for virtual machine configuration files:

C:\ProgramData\Microsoft\Windows\Hyper-V

Browse...

To install the following roles, role services, or features on selected server, click Install.

Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

Hyper-V

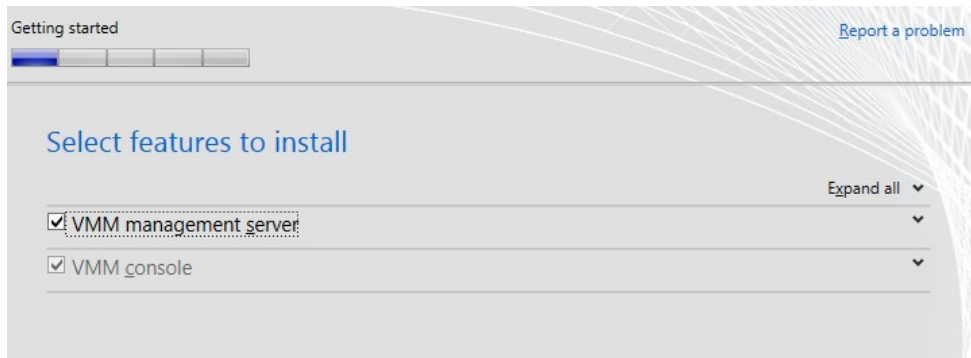
Remote Server Administration Tools

Role Administration Tools

Hyper-V Management Tools

Hyper-V Module for Windows PowerShell

Hyper-V GUI Management Tools



Microsoft System Center 2012 Virtual Machine Manager Setup Wizard

Configuration [Report a problem](#)

Database configuration

Provide information about the database that you would like to use for your VMM management server.

Server name:

Port:

Use the following credentials

User name and domain:
Format: Domain\UserName

Password:

Instance name:

Select an existing database or create a new database.

New database:

Existing database:

Configuration [Report a problem](#)

Configure service account and distributed key management

Virtual Machine Manager Service Account

Select the account to be used by the VMM service. Highly available VMM installations require the use of a domain account.
[Which type of account should I use?](#)

Local System account

Domain account

User name and domain: Password:

Distributed Key Management

Select whether to store encryption keys in Active Directory instead of on the local machine. Highly available VMM installations require the keys be stored in Active Directory.

Store my keys in Active Directory

Provide the location in Active Directory. For example, CN=DKM,DC=contoso,DC=com.

[How do I configure distributed key management?](#)

Port configuration

Management Server

Please select the ports for various VMM features.

8100	Communication with the VMM console
5985	Communication to agents on hosts and library servers
443	File transfers to agents on hosts and library servers
8102	Communication with Windows Deployment Services
8101	Communication with Windows Preinstallation Environment (Windows PE) agents
8103	Communication with Windows PE agent for time synchronization

Library configuration

Specify a share for the Virtual Machine Manager library

Create a new library share

Share name:

Share location:

Share description:

Use an existing library share

Share name:

Share location:

Share description:

Microsoft Update

Microsoft Update offers security and important updates for Windows and other Microsoft software, including System Center 2012 VMM. Updates are delivered using Automatic Updates, or you can visit the Microsoft Update website.

On (recommended)

Use Microsoft Update to check for updates.

Off

Do not automatically check for updates.

Installation location

The recommended location for program files is displayed.

Location: C:\Program Files\Microsoft System Center 2012\Virtual Machine Manager

Browse...

Free space 35,93 GB

Port configuration

Administrator Console

8100

Communication with the VMM management server

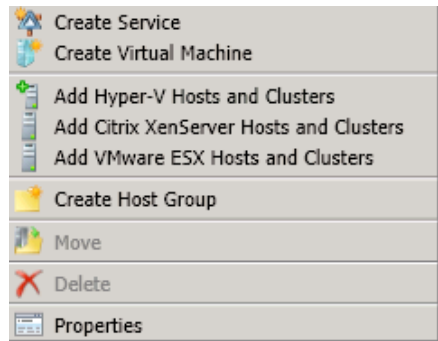
Virtual Machine Manager

Server name:
Example: vmmserver.contoso.com:8100

- Use current Microsoft Windows session identity
 Specify credentials

User name:
Example: contoso\domainuser

Password:



Specify the credentials to use for discovery

The Run As account or credentials will be used to discover computers and to install the Hyper-V role and the Virtual Machine Manager agent if necessary.

Use an existing Run As account

Run As account:

Manually enter the credentials

User name:

Example: contoso\domainuser

Password:

Specify a host group and virtual machine placement path settings for hosts

Assign the selected computers to the following host group:

Host group:

If any of the selected hosts are currently managed by another Virtual Machine Manager (VMM) environment, select this option to reassociate the hosts with this VMM management server.

Reassociate this host with this VMM environment

VMM uses virtual machine placement paths as default locations to store virtual machines placed on a host. To add a new virtual machine placement path, specify a path and click Add.

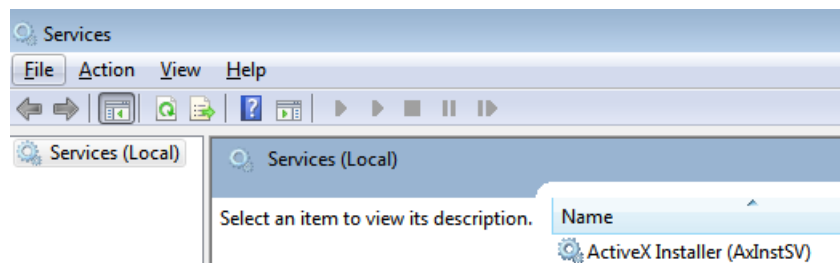
Add the following path:

Selected virtual machine placement paths:

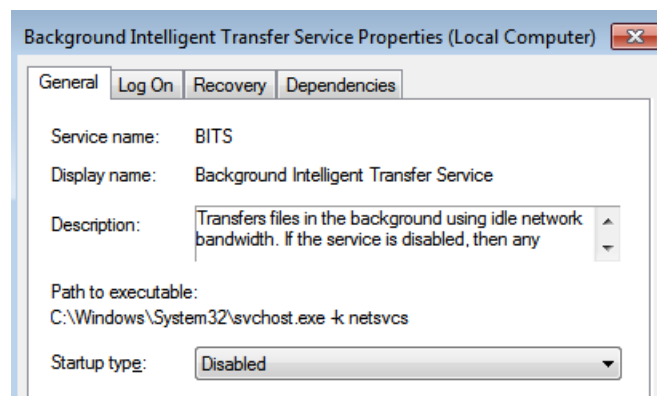
Chapter 3: Master Image Configuration and Tuning

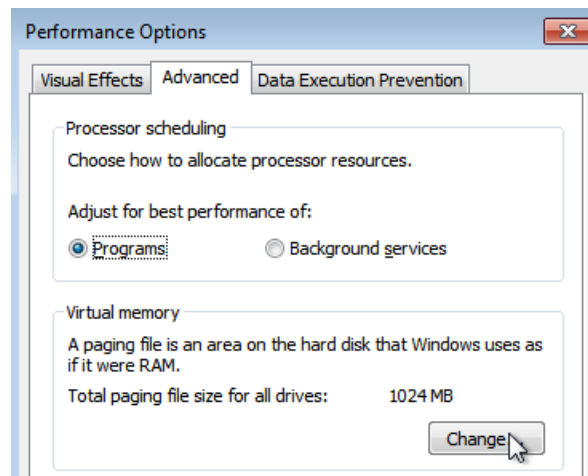
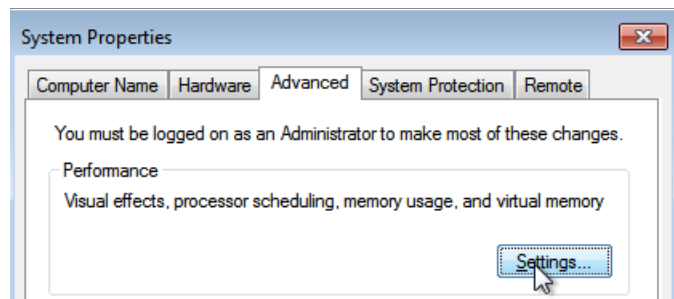
Configuring and optimizing a desktop OS master image

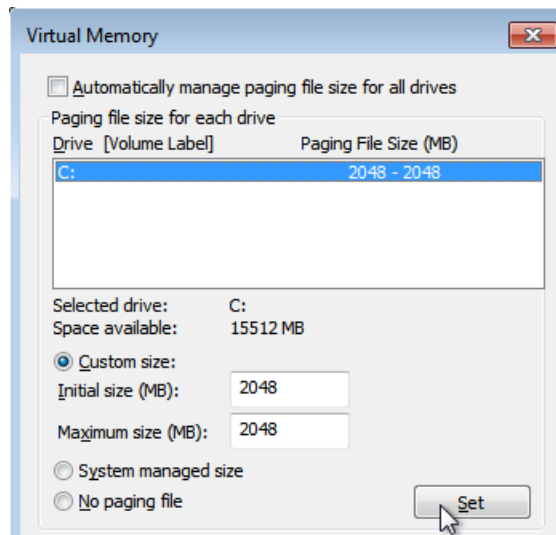
Windows 7 master image configuration:



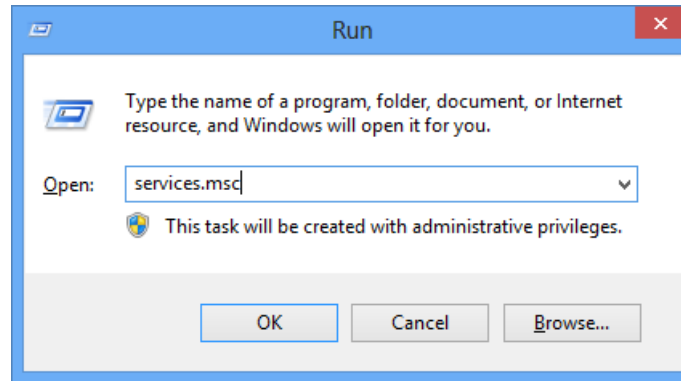
Name	Status	Startup Type
Application Layer Gateway Service		Manual
Application Management		Manual
Background Intelligent Transfer Service	Started	Manual
Base Filtering Engine	Started	Automatic



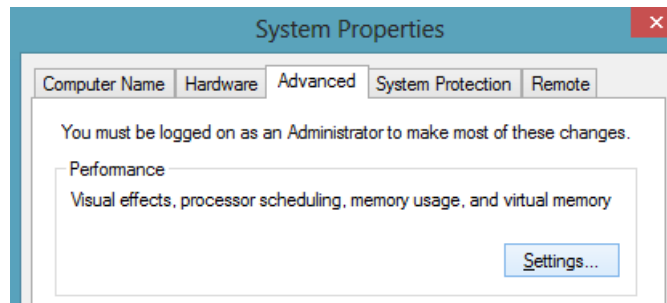
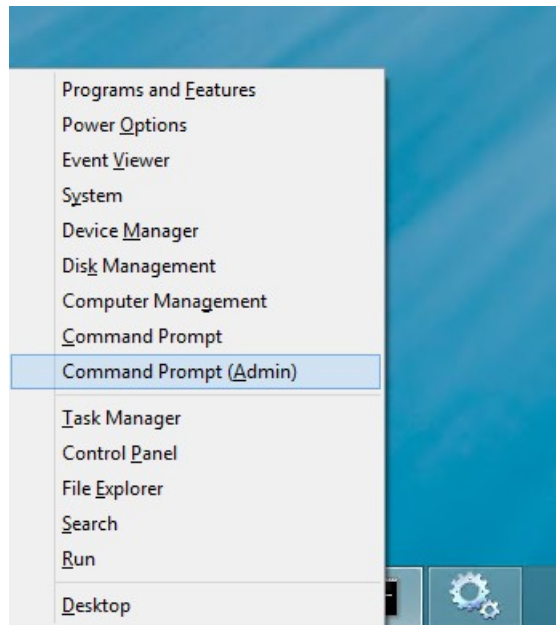


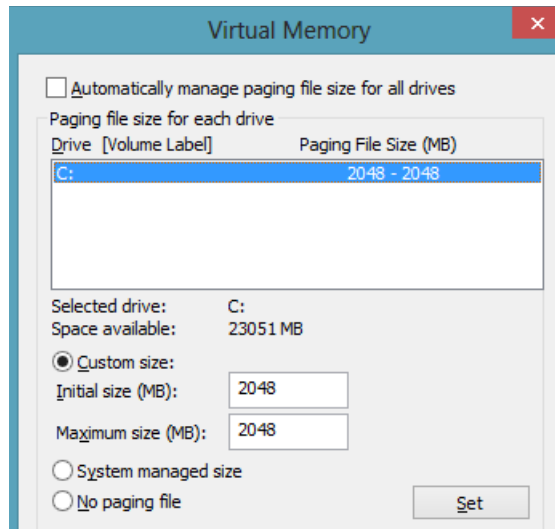


Windows 8 master image configuration



Name	Description	Status	Startup Type
ActiveX Installer (AxInstSV)	Provides User Acco...		Manual
Application Experience	Processes applicati...	Running	Manual (Trigger Start)
Application Identity	Determines and ver...		Manual (Trigger Start)
Application Information	Facilitates the runni...		Manual
Application Layer Gateway Service	Provides support fo...		Disabled
Application Management	Processes installati...		Manual
Background Intelligent Transfer Service	Transfers files in th...		Disabled
Background Tasks Infrastructure Service	Windows infrastruc...	Running	Automatic
Base Filtering Engine	The Base Filtering E...	Running	Automatic
BitLocker Drive Encryption Service	BDESVC hosts the B...		Disabled
Block Level Backup Engine Service	The WBENGINE ser...		Disabled
Bluetooth Support Service	The Bluetooth servi...		Disabled
BranchCache	This service caches ...		Disabled





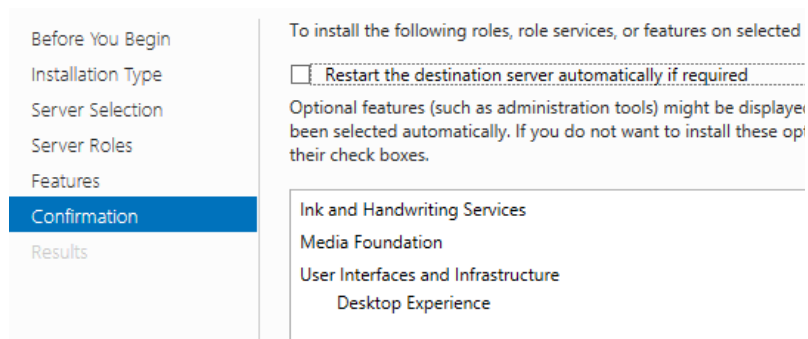
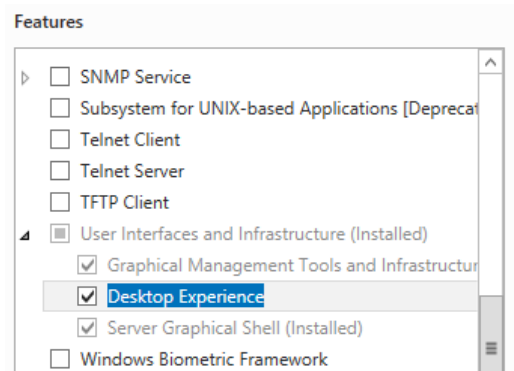
Configuring and optimizing a server OS master image

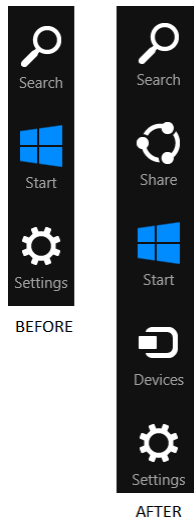
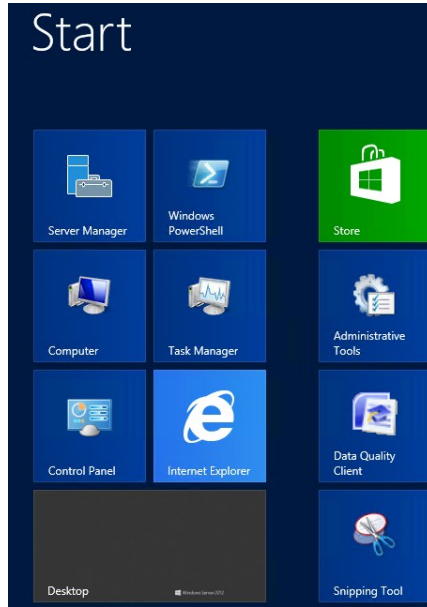
1 Configure this local server

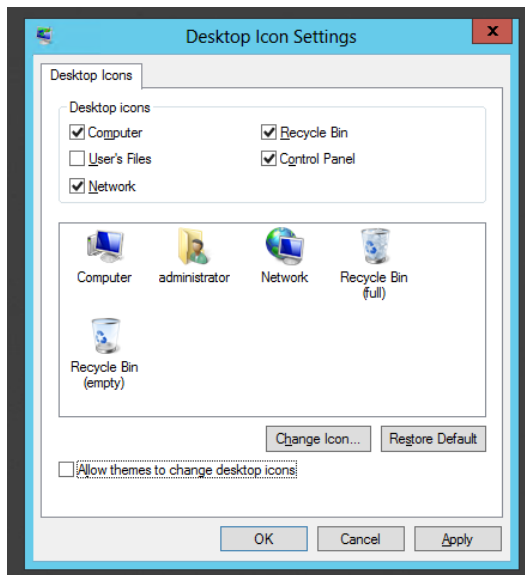
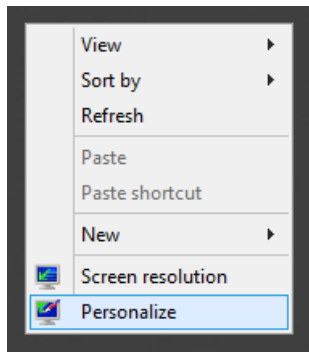
2 Add roles and features

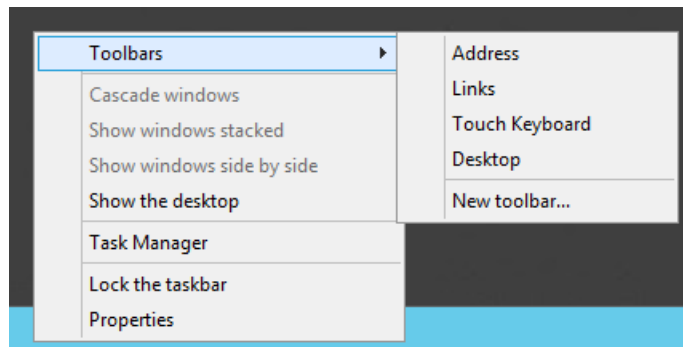
3 Add other servers to manage

4 Create a server group

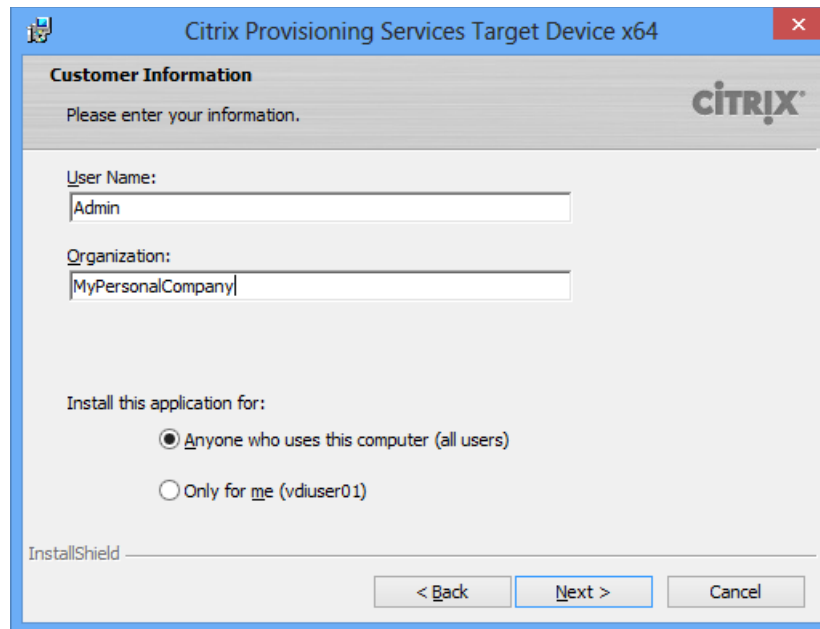








Configuring a target device – PVS architecture



The image shows a Windows-style dialog box titled "Citrix Provisioning Services Target Device x64". The dialog has a blue title bar with a close button (X) in the top right corner. The main content area is titled "Customer Information" and includes the instruction "Please enter your information." and the Citrix logo. There are two text input fields: "User Name:" containing "Admin" and "Organization:" containing "MyPersonalCompany". Below these fields, there is a section titled "Install this application for:" with two radio button options: "Anyone who uses this computer (all users)" (which is selected) and "Only for me (vdiuser01)". At the bottom left, there is a small "InstallShield" logo. At the bottom right, there are three buttons: "< Back", "Next >" (highlighted in blue), and "Cancel".

Citrix Provisioning Services Target Device x64

Customer Information
Please enter your information.

User Name:
Admin

Organization:
MyPersonalCompany

Install this application for:

- Anyone who uses this computer (all users)
- Only for me (vdiuser01)

InstallShield

< Back Next > Cancel

Connect to Farm

Enter the name or address of a server in the farm to connect to.

Server information

Server:

Port:

Credentials

Use my Windows credentials

Use these credentials

User name:

Password:

Domain:

vDisk name:

Store:

Accessible by server: VMXD7-PVS-01

vDisk type:

vDisk block size:

Configure Image Volumes

Define the size of each volume.

Source Volume	Used Space	Free Space	Capacity	File System
1 C: Boot	11571 MB 36 %	20845 MB 64 %	32416 MB	NTFS
2 None				
3 None				
4 None				

↓

Destination Volume	Used Space	Free Space	Capacity	File System
C: Boot	11571 MB 38 %	18639 MB 62 %	30210 MB	NTFS

vDisk Store	Allocated Space	Unallocated Space	Capacity
Summary	11579 MB 38 %	18638 MB 62 %	30217 MB <input type="button" value="Autofit"/>

Target device name:

Note: The target device name cannot be the same Active Directory name of this machine.

MAC:

Collection:

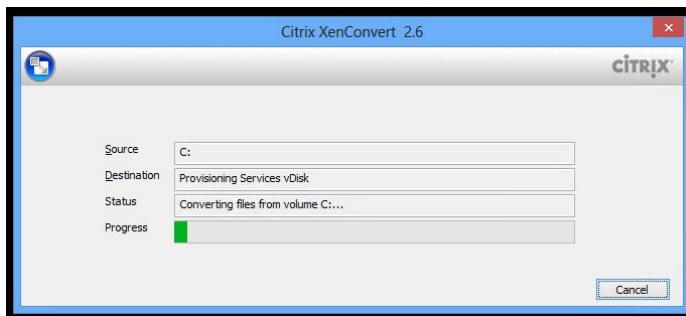
In the Site00 site of server: VMXD7-PVS-01

The Wizard has enough information to create a new vDisk and add it to the farm.

Please review the information below and click Finish to create the vDisk.

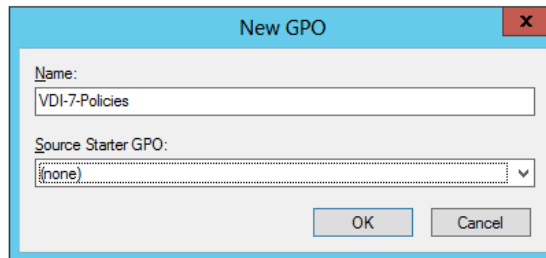
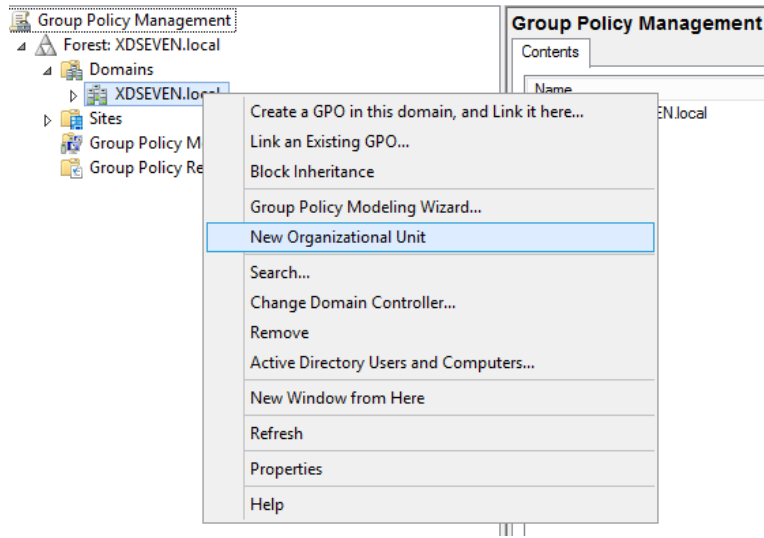
- [-] Create new vDisk
 - ... Name: TD-Vdisk-0
 - ... Store: Store0000
 - ... Type: Dynamic
 - ... Size: 30217
 - ... VHD Block Size: 16 MB
 - ... Microsoft Volume Licensing: Multiple Activation Key (MAK)
 - ... Volume: C:, 11571 MB used, 18638 MB free, 30209 MB capacity, NTFS system
- [-] Add this machine to the farm
 - ... Device name: XD7-W8-T01
 - ... MAC: 00-0C-29-E8-0C-01
 - ... Collection: Collection00

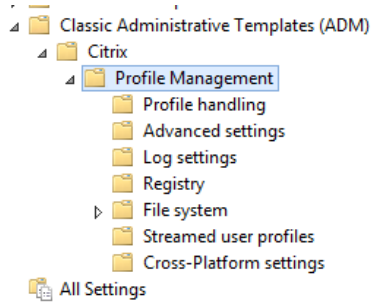
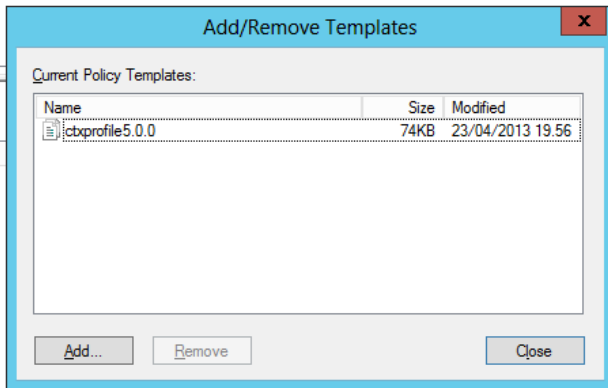
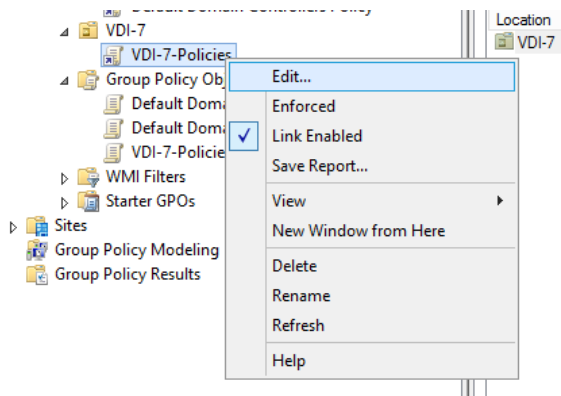
[Optimize for Provisioning Services](#)



Name	Store	Connections	Size	Mode
TD-Vdisk-0	Store0000	1	30.217 MB	Private

Installing and configuring the master image policies





```
Administrator: Command Prompt
Microsoft Windows [Version 6.2.9200]
(c) 2012 Microsoft Corporation. All rights reserved.

C:\Windows\system32>gpupdate /force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

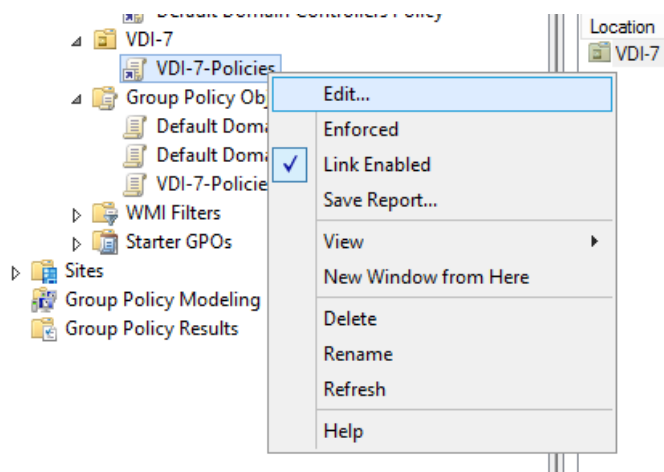
C:\Windows\system32>
```

Chapter 4: User Experience – Planning and Configuring

Implementing profile architecture

Using Citrix Profile Management 5.x

Certificate Propagation	Copies user ...	Running	Manual
Citrix Profile Management	Manages us...	Running	Automatic
CNG Key Isolation	The CNG ke...		Manual (Trig...

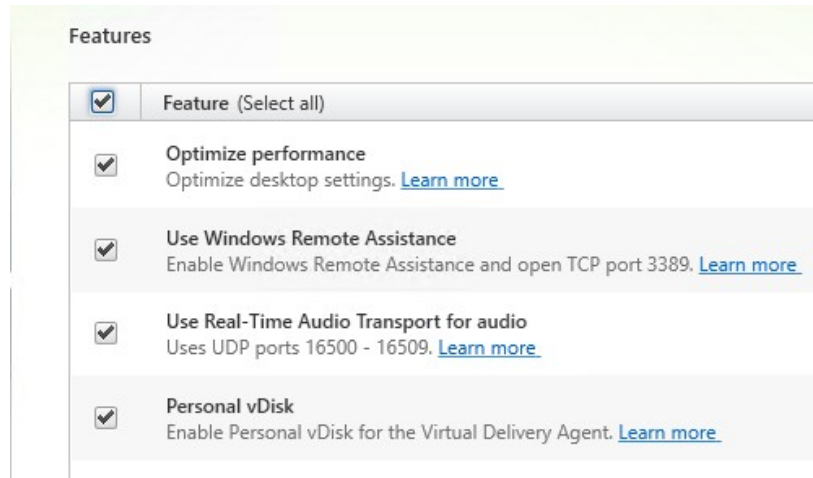


Using roaming profiles

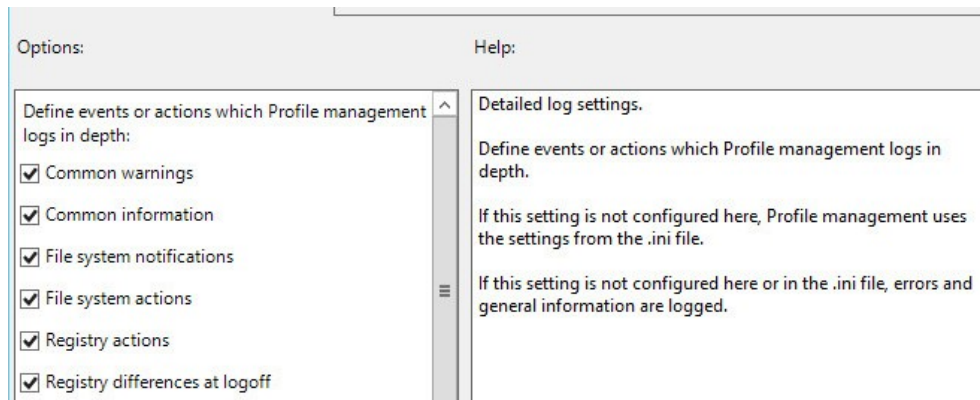
Remote control		Remote Desktop Services Profile		COM+	
Member Of		Dial-in	Environment		Sessions
General	Address	Account	Profile	Telephones	Organization

User profile	
Profile path:	<input type="text" value="\\networkshare\Folder\%username%"/>
Logon script:	<input type="text"/>
Home folder	
<input type="radio"/> Local path:	<input type="text"/>
<input checked="" type="radio"/> Connect:	Z: <input type="text" value="v"/> To: <input type="text" value="etworkshare\Home\%username%"/>

Using Personal vDisk



:



Installing Virtual Desktop Agent – server OS and desktop OS

Installing VDA for a server OS machine

Prepare Machines and Images

Virtual Delivery Agent for Windows Server OS

Install this agent to deliver applications and desktops from server-based VMs or physical machines.

Environment

Configuration

I want to:

- Create a Master Image
Select this option if you use Machine Creation Services or Provisioning Services to create servers from this master image.
- Enable connections to a server machine
Select this option to install the Virtual Delivery Agent onto either a physical server or a virtual machine that has been provisioned without the VDA.

Delivery Controller

Configuration

How do you want to enter the locations of your Delivery Controllers?

Do it manually

Controller address:

vmxd7-xddc-01

Test connection... Add

Features

<input checked="" type="checkbox"/>	Feature (Select all)
<input checked="" type="checkbox"/>	Optimize performance Optimize desktop settings. Learn more
<input checked="" type="checkbox"/>	Use Windows Remote Assistance Enable Windows Remote Assistance and open TCP port 3389. Learn more
<input checked="" type="checkbox"/>	Use Real-Time Audio Transport for audio Uses UDP ports 16500 - 16509. Learn more

Firewall

The default ports are listed below.

[Printable version](#)

Controller Communications	Remote Assistance	Real Time Audio
80 TCP 1494 TCP 2598 TCP 8008 TCP	3389 TCP	16500 - 16509 UDP

Configure firewall rules:

- Automatically**
Select this option to automatically create the rules in the Windows Firewall. The rules will be created even if the Windows Firewall is turned off.
- Manually**
Select this option if you are not using Windows Firewall or if you want to create the rules yourself.

Installing VDA for a desktop OS machine



Environment

Configuration

I want to:

- Create a Master Image
Select this option if you use Machine Creation Services or Provisioning Services to create virtual desktops from this master image.
- Enable Remote PC Access
Select this option to install the Virtual Delivery Agent onto either a physical machine or a virtual machine that has been provisioned without the VDA.

HDX 3D Pro

HDX 3D Pro optimizes the performance of graphics-intensive programs and media-rich applications.

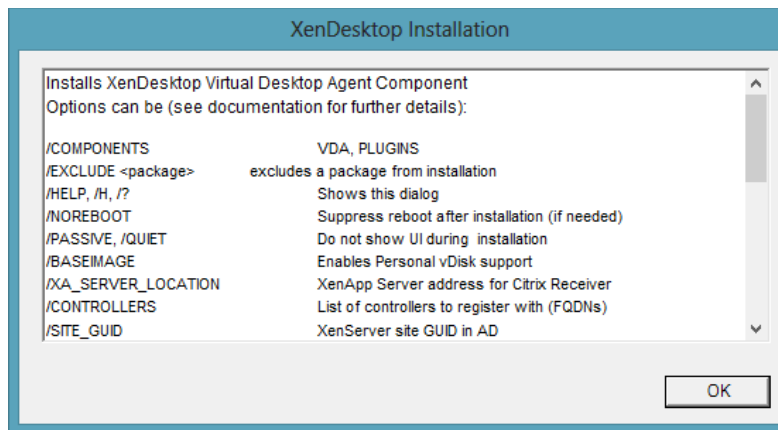
Configuration

Install the Virtual Delivery Agent (VDA) for HDX 3D Pro?

- No, install the standard VDA
Recommended for most desktops, including those enabled with Microsoft RemoteFX.
- Yes, install the VDA for HDX 3D Pro
Recommended if the machine will access a graphics processor for 3D rendering.

Features

<input checked="" type="checkbox"/>	Feature (Select all)
<input checked="" type="checkbox"/>	Optimize performance Optimize desktop settings. Learn more
<input checked="" type="checkbox"/>	Use Windows Remote Assistance Enable Windows Remote Assistance and open TCP port 3389. Learn more
<input checked="" type="checkbox"/>	Use Real-Time Audio Transport for audio Uses UDP ports 16500 - 16509. Learn more
<input checked="" type="checkbox"/>	Personal vDisk Enable Personal vDisk for the Virtual Delivery Agent. Learn more



Installing and configuring the HDX Monitor



HDX Monitor 3.2 (localhost)

HDX Settings and Performance

- Adobe® Flash®** ★★★★★
Virtual channel: Idle
Flash redirection: Inactive
- Audio** ★★★★★
Virtual channel: Idle
Audio bitrate: 0 bps
Codec: None
- Branch Repeater** ★★★★★
WAN Scaler Present: False
- Client** ★★★★★
Client IP address: Not connected
- Graphics - Direct 3D** ★★★★★
Current FPS: 0
- Graphics - Thinwire** ★★★★★
Virtual channel: Idle
Still image compression: Medium
Current FPS: 0
- Graphics - Thinwire Advanced** ★★★★★
Virtual channel: Idle
Current FPS: 0
Number of monitors: 1
- Mapped Client Drives** ★★★★★
Virtual channel: Idle
Client drives available: 0

HDX Monitor 3.2 (localhost)

Adobe® Flash® HDX Index Score: 8.7 / 10
★★★★★

Name	Value
Status	
Virtual channel state	Idle
Flash redirection	Inactive
Internet Explorer compatibility	IE 9 is supported
Network latency threshold	30 ms
Server-side content fetching	Not configured

Attributes | WMI

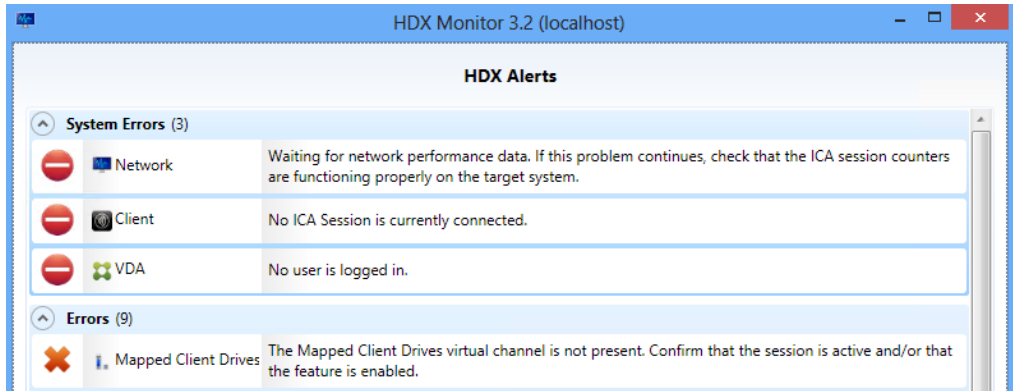
Home | Alerts

- Adobe® Flash®
- Audio
- Branch Repeater
- Client
- Graphics - Direct 3D
- Graphics - Thinwire
- Graphics - Thinwire Advanced
- Mapped Client Drives
- Network**
- Printing
- Scanner
- Smart Cards
- System Information
- USB Devices
- VDA
- Windows Media

See also

- Generate report
- Export
- Support forum
- Change target
- Settings
- About

CITRIX




Settings

Performance Counter Update	1 sec
Sessions Threshold (XenApp only)	50

Settings


Show components that are:

- Active
- Inactive
- Unknown
- Enabled
- Disabled 

Provider Refresh

System Information (Required)	10 sec ▼
VDA (Required)	10 sec ▼
Sessions (Required)	5 sec ▼
Client	5 sec ▼
Network	5 sec ▼
Branch Repeater	5 sec ▼
Adobe® Flash®	5 sec ▼
Audio	5 sec ▼
Graphics - Direct 3D	5 sec ▼
Graphics - Thinwire	5 sec ▼
Graphics - Thinwire Advanced	5 sec ▼
Printing	10 sec ▼
Scanner	10 sec ▼
Smart Cards	10 sec ▼
USB Devices	10 sec ▼
Mapped Client Drives	5 sec ▼
Windows Media	5 sec ▼

Settings

Access Type: 

- Automatically load last connected target system at startup
- On exiting, switch to a tray app (works only when connected locally to a VDA/XA-Server)

Settings

Ignore	Component	Level	Message	URL	Condition
<input checked="" type="checkbox"/>	Adobe® Flash®	HighWarning	The HDX Flash V1 latency threshold		HDXFlashVersion
<input type="checkbox"/>	Adobe® Flash®	HighError	The version of Internet Explorer inst	http://www.microsoft.com/windows	ieVersionNumbe
<input type="checkbox"/>	Adobe® Flash®	HighError	The installed Flash Player is not sup		installedVersion
<input type="checkbox"/>	Adobe® Flash®	LowWarning	Adobe® Flash® redirection has bee		!isEnabled
<input type="checkbox"/>	Audio	LowWarning	Audio redirection has been disablec		!isEnabled
<input checked="" type="checkbox"/>	Audio	LowWarning	? redirection has been disabled with		!isEnabled
<input type="checkbox"/>	Audio	HighError	The ? virtual channel is not present.		isEnabled && !is
<input type="checkbox"/>	Audio	HighError	The Audio virtual channel is not pre		isEnabled && !is
<input checked="" type="checkbox"/>	Audio	HighWarning	No audio devices found.		!ifAnyDeviceExis
<input type="checkbox"/>	Audio	HighError	The Audio service (CtxAudioSrv) has		status == Servic
<input checked="" type="checkbox"/>	Audio	HighWarning	Codec ? is not optimized to reduce		ifAnyDeviceExist
<input checked="" type="checkbox"/>	Audio	HighWarning	Virtual channel priority should be se	http://support.citrix.com/search/ba	(priority != Virtu
<input type="checkbox"/>	System	System	No user is logged in.		SessionID == nu
<input checked="" type="checkbox"/>	Audio	HighWarning	Virtual channel priority should be se	http://support.citrix.com/search/ba	(priority != Virtu
<input type="checkbox"/>	Audio	LowWarning	Audio over UDP could not be used		CurrentUDPPro
<input type="checkbox"/>	Audio	HighWarning	Audio capture is disabled. Input fro		ifAnyDeviceExist



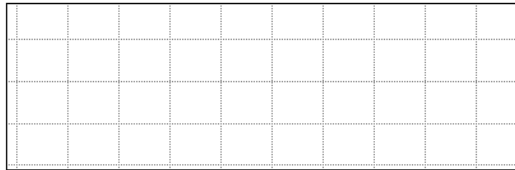
Network

HDX Index Score: 10 / 10



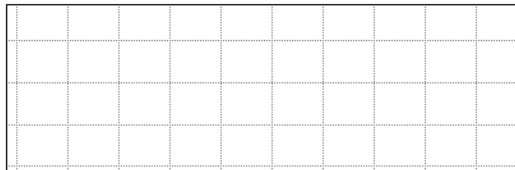
Virtual Desktop to Receiver

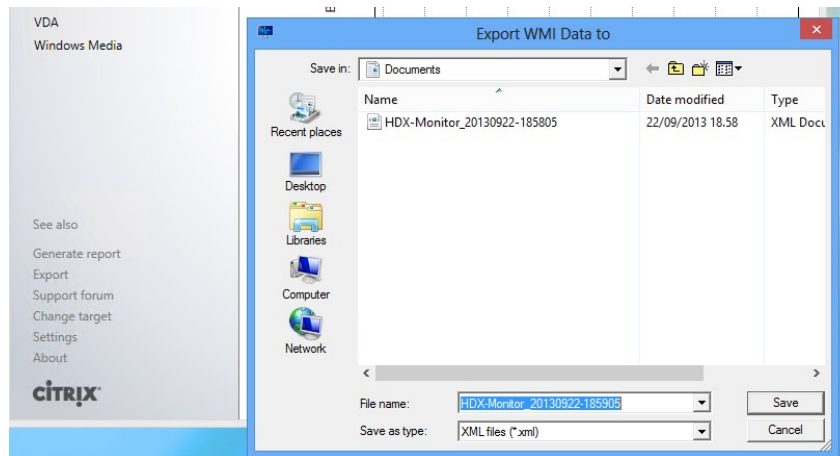
Bandwidth (bps)




Receiver to Virtual Desktop

Bandwidth (bps)





Configuring the Citrix Receiver

- Hide Store
- Manage Delivery Controllers
- Enable Remote Access
- Disable User Subscriptions
- Integrate with Citrix Online
- Export Provisioning File**
- Configure Kerberos Delegation
- Configure XenApp Services Support
- Remove Store
-  Help

Export Provisioning File

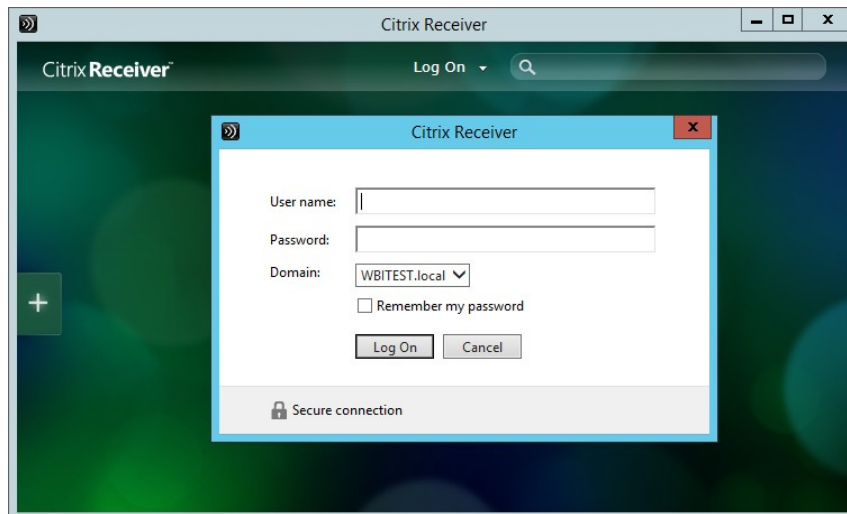
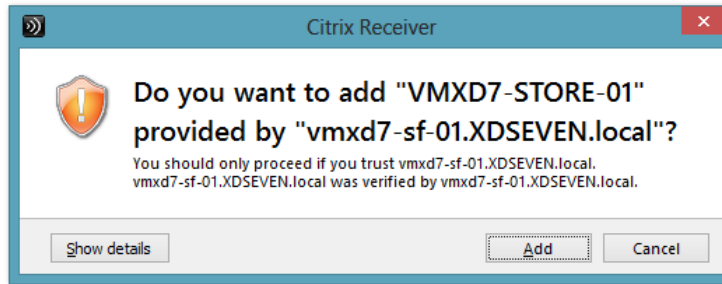
Distribute this file to your users to automate Citrix Receiver setup.

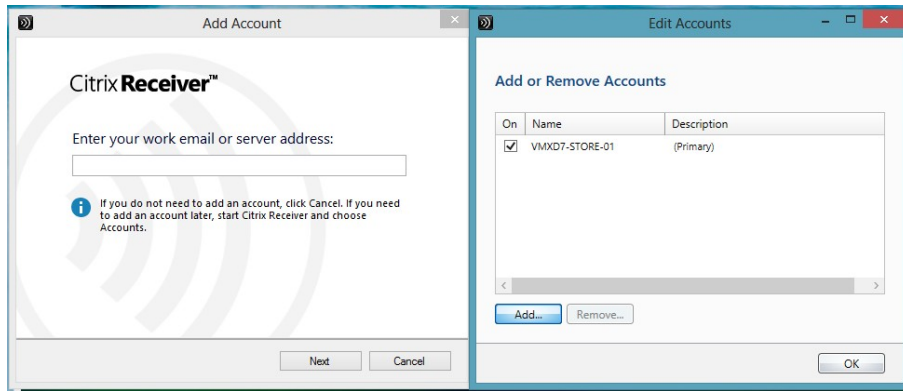
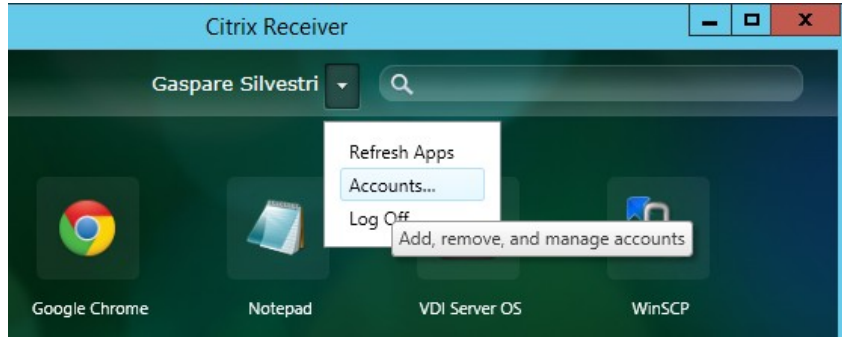
Name:	WBISoreST
URL:	https://wbiwincsf01t.wbitest.local/Citrix/WBISoreST
Access:	Internal and external networks

Details ^

Default NetScaler Gateway appliance:
Other appliances:

Internal beacons:	https://wbinsgw01t.wbitest.local
External beacons:	https://wbinsgwpub.wbitest.local, http://www.citrix...





The image shows a screenshot of the ICA Client configuration interface. On the left, a tree view is expanded to 'Ica Client > Engine > Configuration > Advanced > Canonicalization > ClientDrive'. On the right, a table lists registry values for the 'ClientDrive' configuration.

Name	Type	Data
(Default)	REG_SZ	(value not set)
CacheDisable	REG_SZ	FALSE
CacheTimeout	REG_SZ	600
CacheTimeoutHigh	REG_SZ	0
CacheTransferSize	REG_SZ	0
CacheWriteAllocateDi...	REG_SZ	FALSE
CDMReadOnly	REG_SZ	FALSE
DisableDrives	REG_SZ	
DriverName	REG_SZ	VDCDM30.DLL
DriverNameWin16	REG_SZ	VDCDM30W.DLL
DriverNameWin32	REG_SZ	VDCDM30N.DLL
HighThroughputWin...	REG_SZ	262144
MaxRequestSize	REG_SZ	1440
MaxRequestSize2	REG_SZ	4116
MaxWindowSize	REG_SZ	8650
MaxWindowSize2	REG_SZ	62500
NativeDriveMapping	REG_SZ	TRUE
SFRAllowed	REG_SZ	FALSE

```
[ClientDrive]
DriverName           = VDCDM30.DLL
DriverNameWin16     = VDCDM30W.DLL
DriverNameWin32     = VDCDM30N.DLL
MaxWindowSize       = 8650
MaxWindowSize2      = 62500
MaxRequestSize      = 1440
MaxRequestSize2     = 4116
CacheTimeout        = 600
CacheTimeoutHigh    = 0
CacheTransferSize    = 0
CacheDisable        = FALSE
CacheWriteAllocateDisable = FALSE
DisableDrives       =
CDMReadOnly         = FALSE
NativeDriveMapping  = TRUE
SFRAllowed          = FALSE
HighThroughputWindowSize = 262144
```

Configuring Citrix Receiver for HTML 5 1.5 – clientless

Create Store

Store Name

Choose a name that helps users identify the store. The store name appears in Citrix Receiver as part of the user's account.

Store name:

Add Delivery Controller

Delivery Controllers

Specify the delivery controllers:

Name

Display name:

Type:

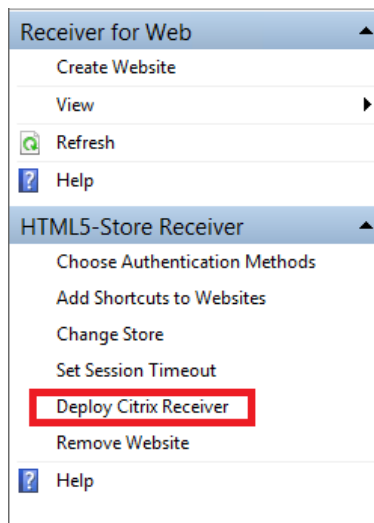
- XenApp 7.5 (or later), or XenDesktop
- XenApp 6.5 (or earlier)
- AppController
- VDI-in-a-Box

Servers (load balanced):

XD76Controller

Transport type:

Port:



Deploy Citrix Receiver

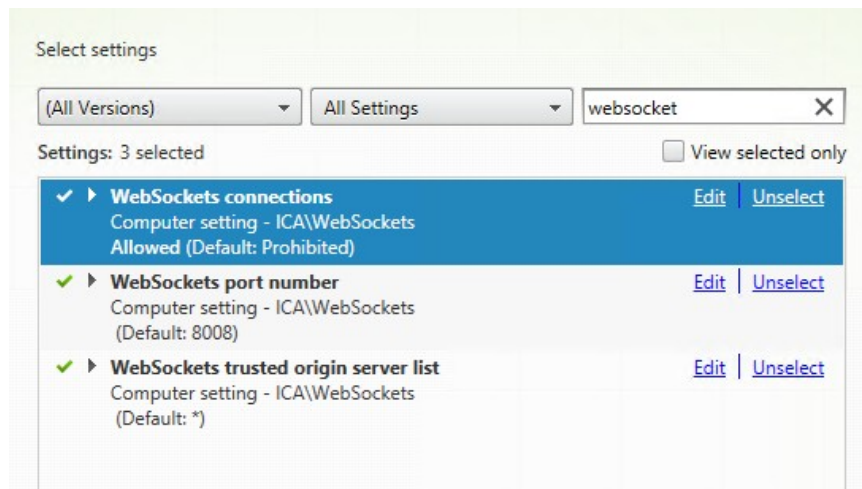
For the best user experience, Receiver for Web sites detect Windows and Mac OS X devices and offer users the opportunity to download and install Citrix Receiver. If users cannot install Citrix Receiver, enable Receiver for HTML5.

Choose how to deploy Citrix Receiver:

- Install locally
- Use Receiver for HTML5 if local install fails ⓘ
- Always use Receiver for HTML5

OK

Cancel



WebSockets connections

Applies to: Virtual Delivery Agent: 7.0 Server OS, 7.0 Desktop
7.5 Server OS, 7.5 Desktop OS, 7.6 Server OS, 7.6 Desktop OS

- Allowed**
This setting will be allowed.
- Prohibited**
This setting will be prohibited.

WebSockets port number

Applies to: Virtual Delivery Agent: 7.0 Server OS, 7.0 Desktop OS, 7.5 Server OS, 7.5 Desktop OS, 7.6 Server OS, 7.6 Desktop OS

Value:

Use default value: 8008

Edit Setting

WebSockets trusted origin server list

Applies to: Virtual Delivery Agent: 7.0 Server OS, 7.0 Desktop OS, 7.1 Server OS, 7.1 Desktop OS, 7.5 Server OS, 7.5 Desktop OS, 7.6 Server OS, 7.6 Desktop OS

Value:

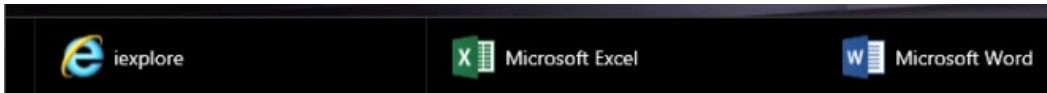
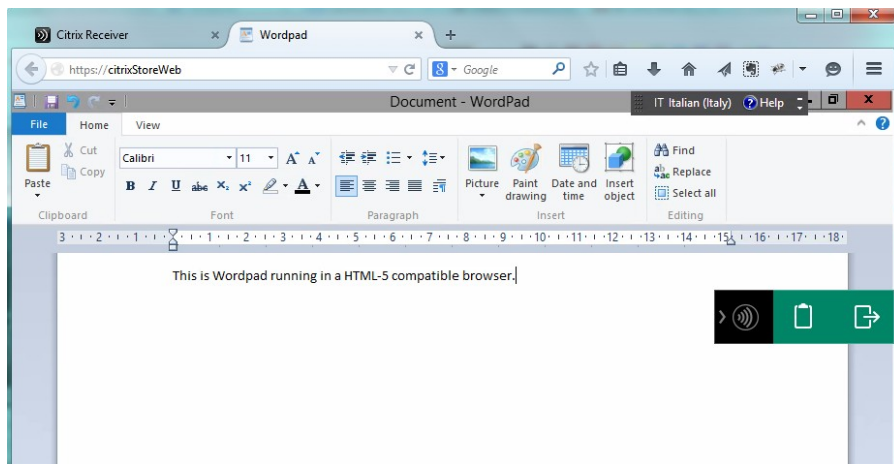
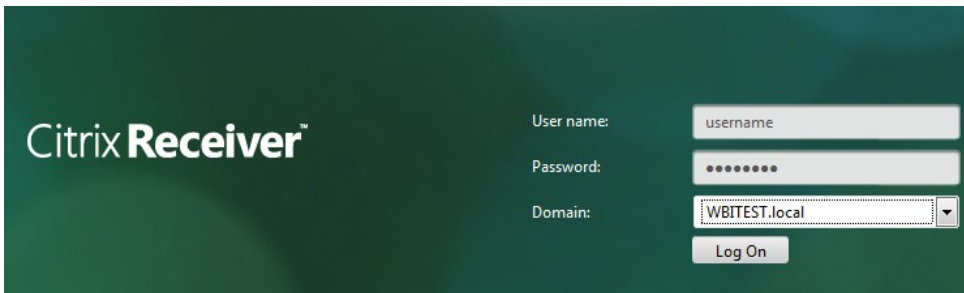
Use default value: *

▼ Details and related settings

Settings configured: 3

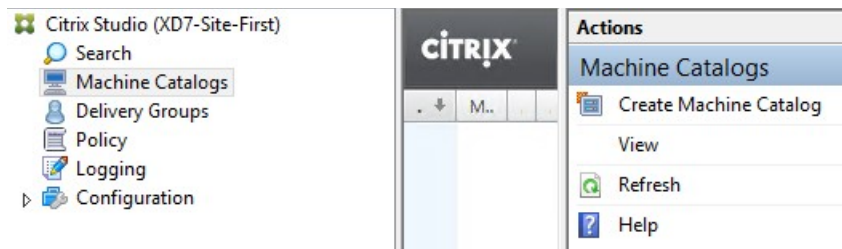
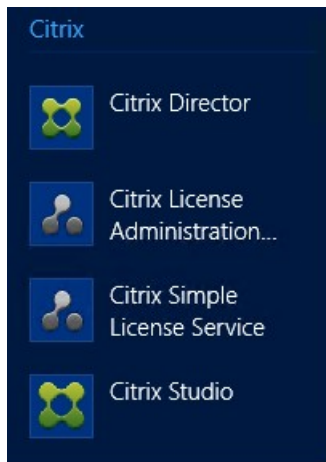
Assigned to: user and machine objects

<p>WebSockets connections Computer setting - ICA\WebSockets Allowed (Default: Prohibited)</p> <p>WebSockets port number Computer setting - ICA\WebSockets (Default: 8008)</p> <p>WebSockets trusted origin server... Computer setting - ICA\WebSockets (Default: *)</p>	<p>The settings are applied to all objects in the site.</p>
--	---



Chapter 5: Creating and Configuring a Desktop Environment

Creating and configuring the machine catalog



Machine Catalog Setup

Studio

- ✓ Introduction
- Operating System**
- Machine Management
- Desktop Experience
- Master Image
- Virtual Machines

Operating System

Select an operating system for this Machine Catalog.

- Windows Server OS
The Server OS Machine Catalog provides hosted shared desktops for a large-scale deployment of standardized machines.
- Windows Desktop OS
The Desktop OS Machine Catalog provides VDI desktops ideal for a variety of different users.
- Remote PC Access
The Remote PC Access Machine Catalog provides users with remote access to their physical office desktops, allowing them to work at any time.

Machine Catalog Setup

Studio

- ✓ Introduction
- ✓ Operating System
- Machine Management**
- Desktop Experience
- Master Image
- Virtual Machines
- Computer Accounts
- Summary

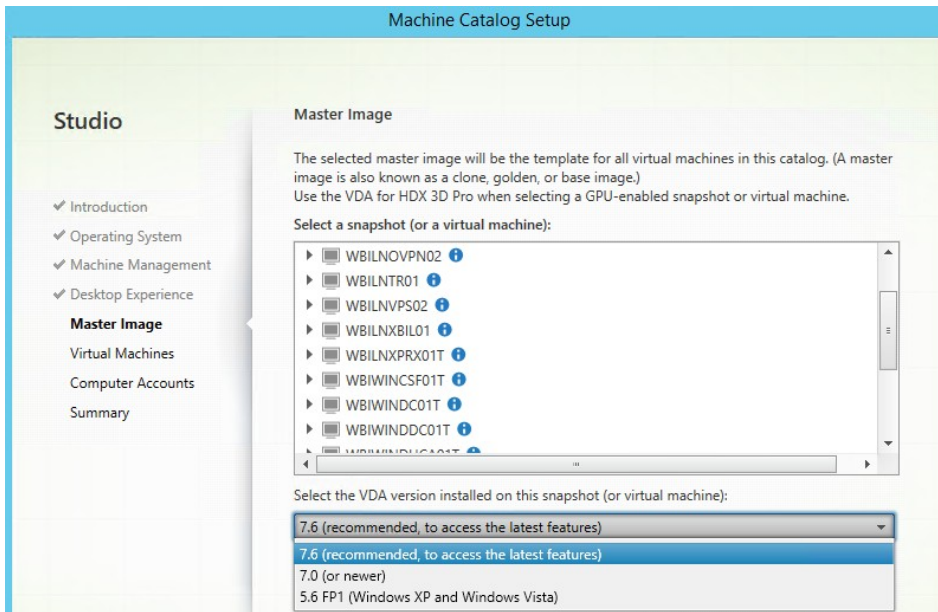
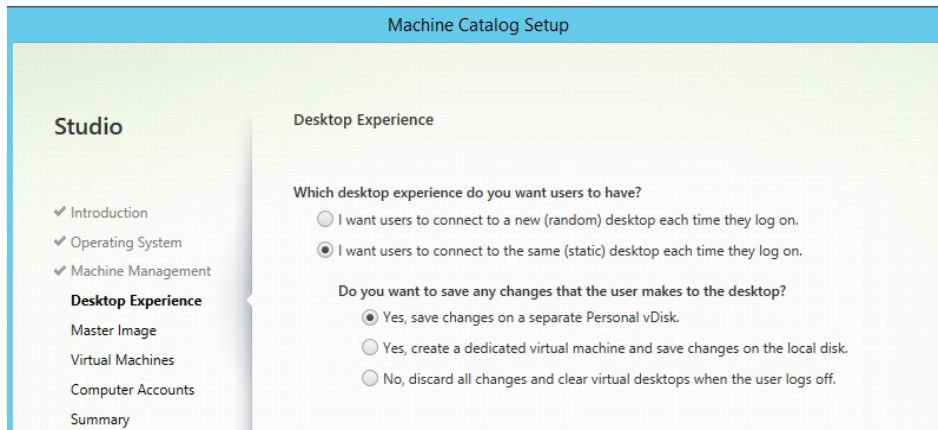
Machine Management

This Machine Catalog will use:

- Machines that are power managed (for example, virtual machines or blade PCs)
- Machines that are not power managed (for example, physical machines)

Deploy machines using:

- Citrix Machine Creation Services (MCS)
Resources: XS-LAN
- Citrix Provisioning Services (PVS)
- Another service or technology
I am not using Citrix technology to manage my machines. I have existing machines already prepared.



Virtual Machines

Number of virtual machines needed:

 - +

Configure your machines:

Name:	T0_pre_Profile		
Virtual CPUs:	2	<input type="text" value="2"/>	- +
Memory (MB):	2048	<input type="text" value="2048"/>	- +
Hard disk (GB):	32		32

Active Directory Computer Accounts

Each machine in a Machine Catalog needs a corresponding Active Directory computer account.

Select an Active Directory account option:

- Create new Active Directory accounts
- Use existing Active Directory accounts

Active Directory location for computer accounts:

Domain:

- Default OU
- Client
- Computers**
- Domain Controllers

Selected location:

Account naming scheme:

Machine Catalog Setup

Summary

Machine type:	Windows Desktop OS
Machine management:	Virtual
Provisioning method:	Machine creation services (MCS)
Desktop experience:	Users connect to the same desktop each time they log on Discard all changes when the user logs off
Resources:	XS-LAN
Master Image name:	WBIWINXDS01T <small>A snapshot of the Master Image VM will be created</small>
VDA version:	7.6 (recommended, to access the latest features)

Machine Catalog name:

Machine Catalog description for administrators: (Optional)

To complete the deployment, assign this Machine Catalog to a Delivery Group by selecting Delivery Groups and then Create or Edit a Delivery Group.

Machines

Import or add machine accounts:

Computer AD account

Select Computers ? x

Select this object type:
 Object Types...

From this location:
 Locations...

Enter the object names to select (examples):
 Check Names

Advanced...
OK
Cancel

Remove
Import list...
Export list...
Add Computers...

Remote PC Access - catalog configuration

Machine Accounts

Machines in your network domain have an associated machine account. The machine account name is usually the same name as the machine. The machine accounts you choose must match the machines that users use for remote access. To add groups of machines by Organizational Units (OUs), select Add OUs.

Select the machine accounts and/or OUs associated with your users:

To get started, add a machine account or OU.

[Learn more](#)

Select the minimum VDA version installed on machines associated with these accounts:

7.6 (recommended, to access the latest features) ▼

Machines will require the selected VDA version (or newer) in order to register in Delivery Groups that reference this machine catalog. [Learn more](#)

CITRIX

Search results for '(Machine Catalog Is "Server VDI Catalog")'

Desktop OS Machines (0)				Server OS Machines (1)				Sessions (4)			
Name	Machine Catalog	Delivery Group	Maintenance...								
WBIWINXDS01T....	Server VDI Catalog	Server OS VDI	Off								

Machines

Select a Machine Catalog. The Type column is a summary of choices made when the Catalog was created.

Catalog	Type	Machines
<input checked="" type="radio"/> Server VDI Catalog Server VDI Catalog	RDS Manual Random	1

Choose the number of machines for this Delivery Group: - +

Users

Specify who can use the applications and desktops in this Delivery Group. You can assign users and user groups who log on with valid credentials. Alternatively or additionally, you can enable access for unauthenticated users.

Assign users:

WBITEST\CTX_Users

Give access to unauthenticated (anonymous) users; no credentials are required to access StoreFront
This feature requires a StoreFront store for unauthenticated users.

StoreFront

You can configure Receiver on the machines in this Delivery Group so that users can access additional applications that aren't on the machines. Receiver can use a different StoreFront server (that you select here or in the Configuration > StoreFront node) compared with the servers (listed in the Citrix StoreFront console) used for connections to the machines themselves.

How do you want to configure Receiver on the machines in this Delivery Group?

Manually, using a StoreFront server address that I will provide later
 Automatically, using the StoreFront servers selected below

Select the StoreFront servers for Receiver:

<input checked="" type="checkbox"/>	Receiver Storefront URL
<input checked="" type="checkbox"/>	http://wbiwincsf01t.wbitest.local/

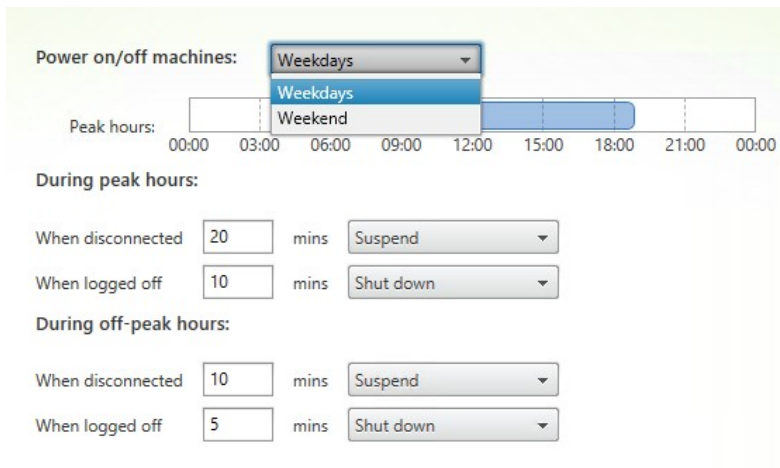
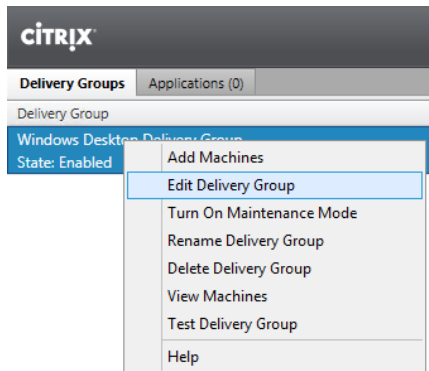
[Add new...](#)

ServerDeliveryGroup	Windows Server OS	1	0
State: Enabled		Unregistered: 1	Disconnected: 0

Details - ServerDeliveryGroup

[Details](#)
[Machine Catalogs](#)
[Usage](#)
[Administrators](#)

Delivery Group		State	
Name:	ServerDeliveryGroup	Enabled:	Yes
Display Name:	Server Delivery Group	Maintenance Mode:	Off
Description:	-	Registered Machines:	1
Type:	Random Desktops	Unregistered Machines:	1
Set to VDA version:	7.6 (recommended, to access the latest features)	Powered off Machines:	0
Users:	CTX_Users (WBITEST)\CTX_Users	Total Machines:	1
Scopes:	All	Installed VDA version:	7.6.0.5026
StoreFronts:	http://wbiwincsf01t.wbitest.local/	Operating System:	Windows 2012 R2



End User Settings

Description:

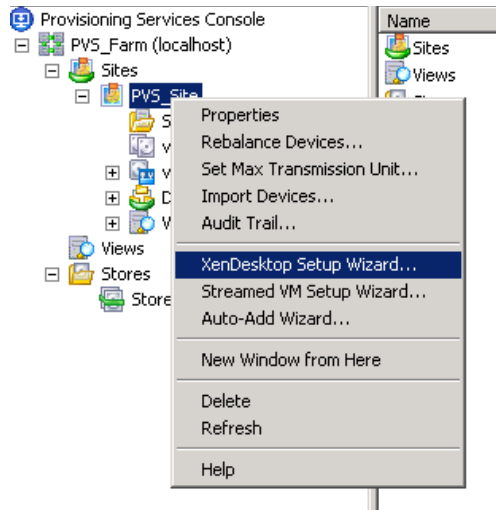
Enabled

Desktops per user: - +

Color depth:

Time zone:

Enable Secure ICA



Specify the size and location of the Personal vDisk:

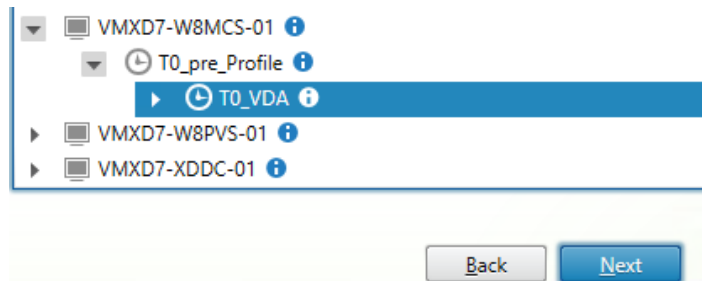
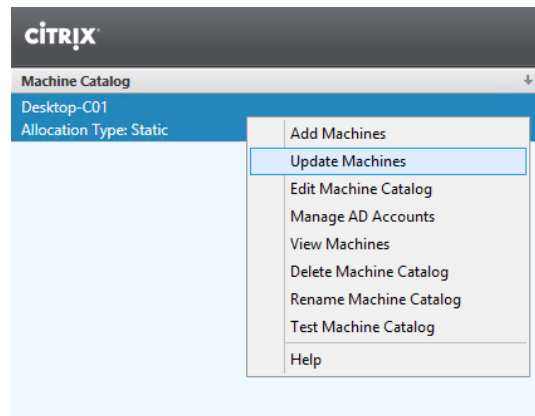
Personal vDisk size (GB): - +

Personal vDisk drive letter:

Number of virtual machines to create:		<input type="text" value="1"/>	
vCPUs:	1	<input type="text" value="1"/>	
Memory:	1024 MB	<input type="text" value="1024"/>	MB
Local write cache disk:	4096 MB	4096 MB	
Personal vDisk size:	10 GB	<input type="text" value="10"/>	GB
Personal vDisk drive letter:	P:	<input type="text" value="P"/>	

Modifying an existing machine catalog

Updating virtual desktop machines



Rollout Strategy

When do you want to update this image?

On the next restart (not right now)

Notify users of the update

Immediately (restart the machine now)

Distribution time:

Restart all machines at once ▼

Notify users of the update:

1 minute before user is logged... ▼


Message:

The desktop will be updated asap.

CITRIX

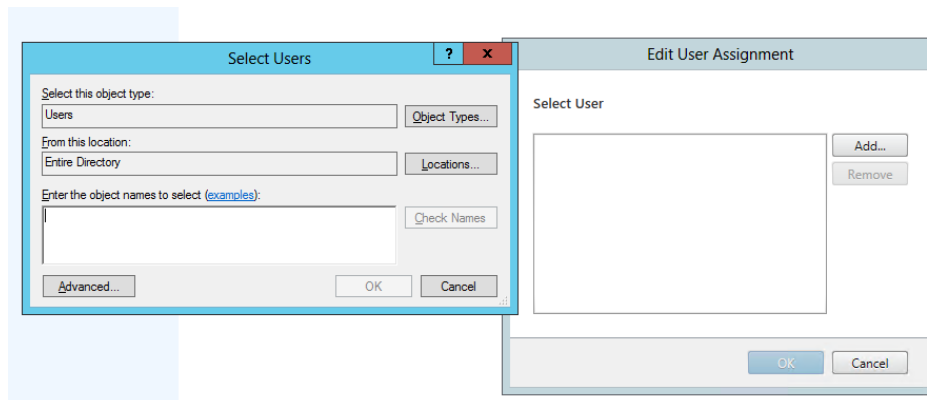
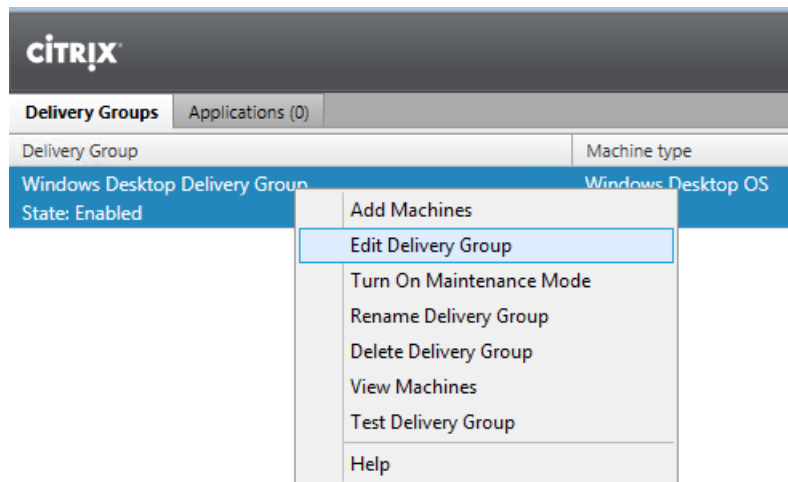
Common Tasks **Actions** PowerShell

Updating the image of Desktop-C01



Status: Copying the master image.
Time taken: 0:01:22

Modifying the machine assignment



Adding new machines to an existing catalog:

Active Directory Computer Accounts

Each machine in a Machine Catalog needs a corresponding Active Directory computer account.
[Learn more](#)

Select an Active Directory account option:

Create new Active Directory accounts

Use existing Active Directory accounts

Required: 1 Added: 0

Computer account password management

Reset all account passwords

All accounts have the same password

Machines

Select a Machine Catalog:

Catalog	Type	Machines
<input checked="" type="radio"/> Desktop-C01 Desktop-C01	VDI MCS Static Discard	1

Choose number of machines to add:

Removing assigned machines from an existing catalog

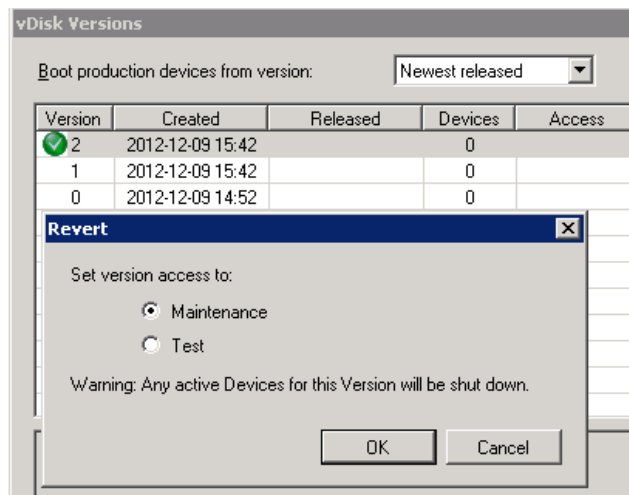
Delete Options

What do you want to do with the virtual machine?

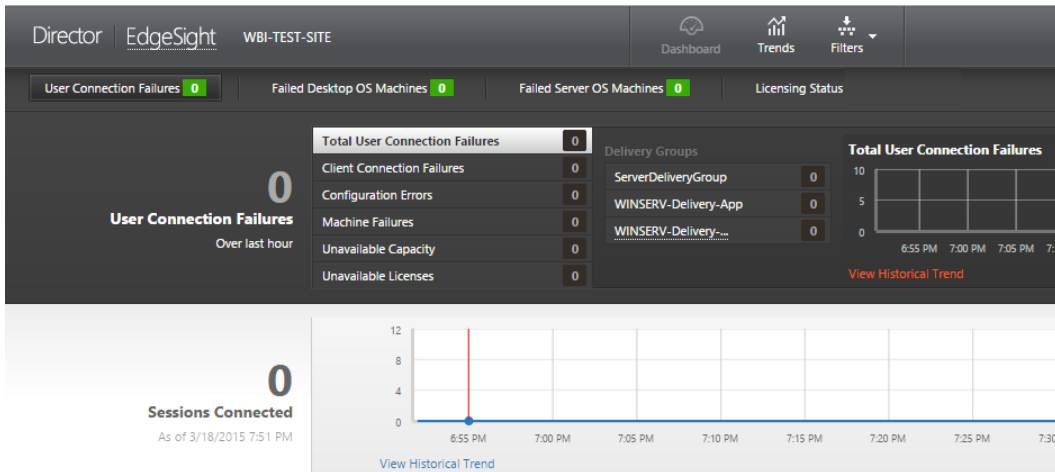
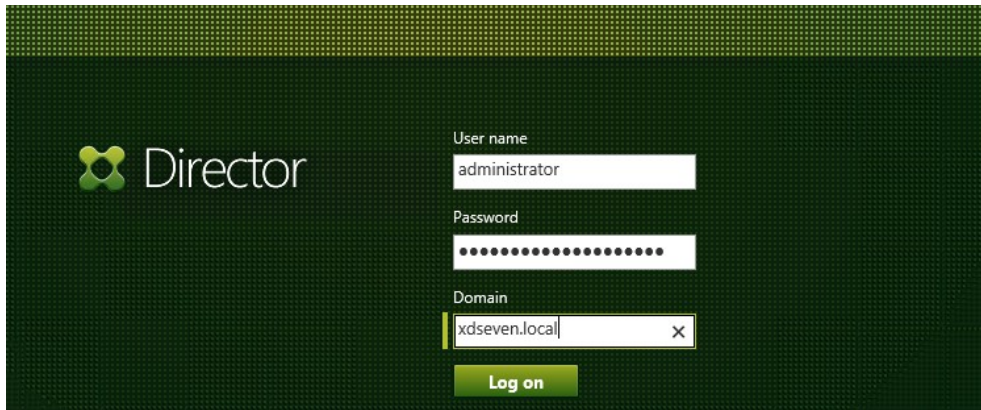
- Remove the virtual machines from the Catalog but do not delete the virtual machines.
- Remove the virtual machines from the Catalog and delete the virtual machines.

What do you want to do with the Active Directory computer accounts?

- Leave the accounts in the Catalog and do not change them in Active Directory.
- Remove the accounts from the Catalog but do not remove them from Active Directory.
- Remove the accounts from the Catalog and disable them in Active Directory.
- Remove the accounts from the Catalog and delete them from Active Directory.



Using the Citrix Director7.6 platform



License Server
As of 3/18/2015 9:49 PM

⚠ Licenses are about to expire.
This product is using an Evaluation license(s) that will expire in 44 day(s). This license is for Evaluation only. Other uses are strictly prohibited.

✔ Recommended Action
Purchase and allocate product licenses.

Delivery Controllers
As of 3/18/2015 9:48 PM

✔ WBIWINDDC01T.WBITEST.local

Licensing Information

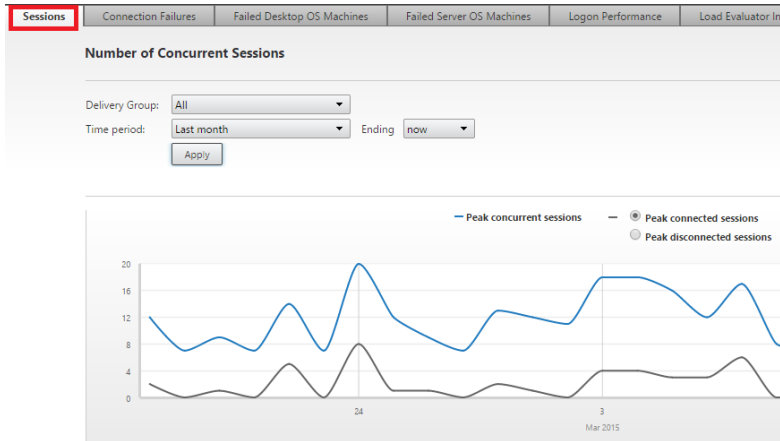
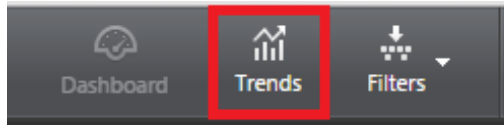
Overview

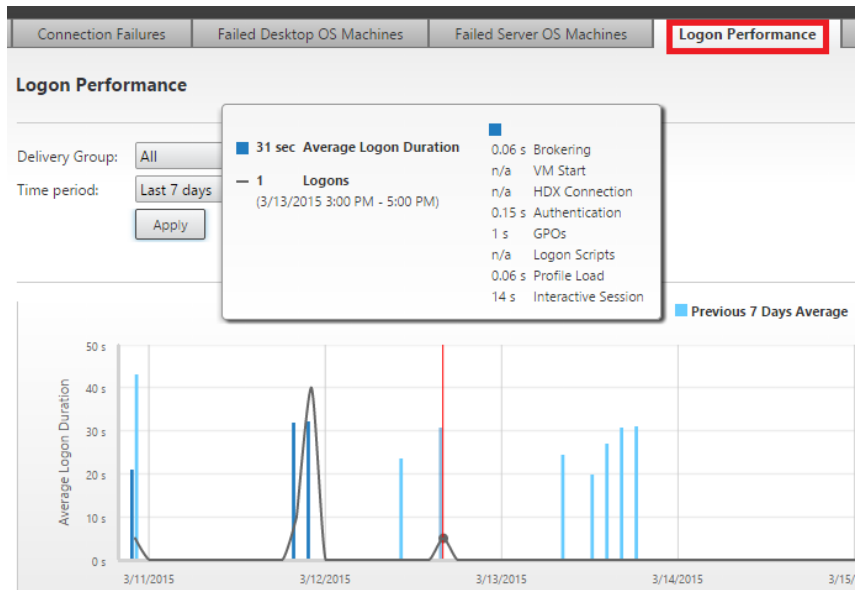
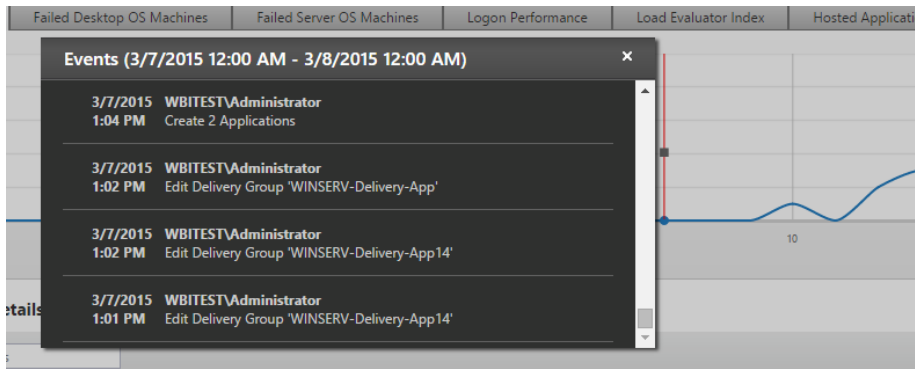
Details

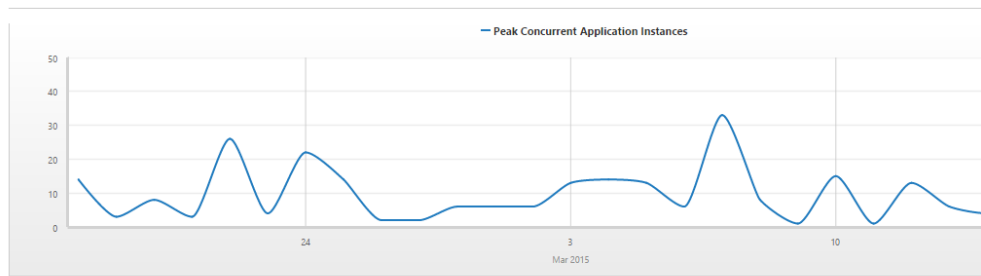
License server state: Ok

Grace state: Not Active

Time until grace expires: n/a







Application Based Usage

Application Name ▲	Folder Path	Peak Concurrent Instances	Total Instances	Total Launches	Total Usage Duration (hr...)
All	n/a	33	201	195	2,159:45
7-Zip File Manager	Management\	1	3	3	0:05
Adobe Reader XI	Office\	2	7	7	109:36
Android Studio	Developers\	2	5	5	0:20

Desktop OS Machines 0		Server OS Machines 3	
Machine Name ▲	IP Address	Delivery Group	Sessions
<input type="checkbox"/> WBITEST\WBIWINKAS01T	192.168.200.13	WINSERV-Delivery-App	2
<input checked="" type="checkbox"/> WBITEST\WBIWINKAS02T	192.168.200.14	WINSERV-Delivery-App14	3
<input type="checkbox"/> WBITEST\WBIWINKDS01T	192.168.200.19	ServerDeliveryGroup	4

Filters - All Machines*

View: Machines Sessions Connections

Filter by:

Desktop OS Ma

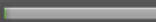
Power Control ▾

Machine Name	Address
<input type="checkbox"/> WBITEST\WBI	168.200.13
<input checked="" type="checkbox"/> WBITEST\WBI	168.200.14
<input type="checkbox"/> WBITEST\WBI	168.200.19

- Allocation Type
- DNS Name
- Delivery Controller
- Delivery Group
- Failure Reason
- Failure Time
- Failure Type
- Hosted Machine Name
- Hosting Server Name
- Hypervisor Connection Name
- IP Address
- Is Assigned
- Is Physical
- Is Preparing

Director | EdgeSight | WBI-TEST-SITE

WBITEST\WBIWINXAS02T **ON**

OS type	windows 2012 r2
Allocation type	Random
Machine IP	192.168.200.14
Organizational unit	CN=WBIWINXAS0...TEST,DC=local
VDA version	7.6.0.5026
Host	XS-HV
Server	d00lfq-vm2.sphostserver.com
VM name	WBIWINXAS02T
vCPU	2
Memory	6136 MB
Hard disk	55 GB
Avg. disk sec/transfer	0.016
Current disk queue length	0
Load evaluator index	 1%

Hotfixes

Component	Component Version
-----------	-------------------

Filters - All Sessions

View: Machines Sessions Connections

Filter by:

1 Session

Session Control

Associated User

Administrator

	Session Start Time	Session Change Time
	10/16/2013 2:49 PM	10/16/2013 2:49 PM

- Associated User
- Associated User Display Name
- Associated User UPN
- DNS Name
- Delivery Group
- Endpoint IP
- Endpoint Name
- IP Address
- Machine Catalog
- Machine Name
- OS
- Receiver Version
- Session Change Time
- Session Start Time

- Sites
 - Default Web Site
 - aspnet_client
 - Director
 - Bin
 - Config
 - DisplayConfig
 - dmc
 - exportfile
 - images
 - plugin
 - plugins
 - State
 - tools
 - UserData

Create Administrator

Studio

- Administrator and Scope**
- Role
- Summary

Administrator and Scope

Select an administrator:

Select a Scope:

Scopes are objects that represent something meaningful in an organization administrator is allowed to manage (for example, a set of Delivery Groups u... team). Click a scope to see the objects in it.

Scope name
<input checked="" type="radio"/> All
<input type="radio"/> All objects

Role

Select a role. Click a role name to view its permissions.

Name	Type
<input type="radio"/> Delivery Group Administrator Can deliver applications, desktops, and machines; can also manage the...	Built In
<input type="radio"/> Full Administrator Can perform all tasks and operations.	Built In
<input checked="" type="radio"/> Help Desk Administrator Can view Delivery Groups, and manage the sessions and machines ass...	Built In
<input type="radio"/> Host Administrator Can manage host connections and their associated resource settings.	Built In

Director | Help Desk

Restart

Shadow

Reset Profile

Reset Personal vDisk

Chapter 6: Deploying Applications

Publishing the hosted applications

Summary

Machine type:	Windows Desktop OS
Machine management:	Virtual
Provisioning method:	Machine creation services (MCS)
Desktop experience:	Users connect to a new desktop each time they log on
Resources:	VMware01
Master Image name:	T0_VDA
Number of VMs to create:	2
Virtual CPUs:	2
Memory (MB):	2048

Machine Catalog name:

Desktop-Apps-01

Machine Catalog description for administrators: (Optional)

Desktop-Apps-01

Note: To complete the deployment, assign this machine catalog to a Delivery Group by selecting Delivery Groups and then Create or Edit a Delivery Group.

Delivery Type

You can use the machines in the Catalog to deliver desktops and applications to your users.

[Learn more](#)

Use the machines to deliver:

- Desktops
- Applications

Add an Application Manually

You can manually add applications from the virtual desktop machine or from a different network location.

[Learn more](#)

Path to the executable file:

Command line argument (optional):

Working directory:

Application name (for user):

Application name (for administrator):

Summary

Source Machine Catalog:	VDI
Machine type:	Windows Desktop OS
Allocation type:	Static
Number of machines added:	1 unassigned
Delivery type:	Applications
Users:	-
Applications:	1
Scopes:	All

Delivery Group name:

Application-Group

Delivery Group description for users: (Optional)

Application-Group

Identification

Identify this application.

Application name (for user):

Notepad

Application name (for administrator):

Notepad

Description and keywords:

This is the description that will be seen by the user. You can also use this field to enter keywords for StoreFront.

[Learn More](#)

Delivery

Specify how this application will be delivered to your users.

Application icon:



Application category (optional):

TextEditors

The category in Receiver where the application appears.

Add shortcut on user's desktop

Location

Enter the location information below.

Path to the executable file:

%SystemRoot%\System32\notepad.exe Browse...

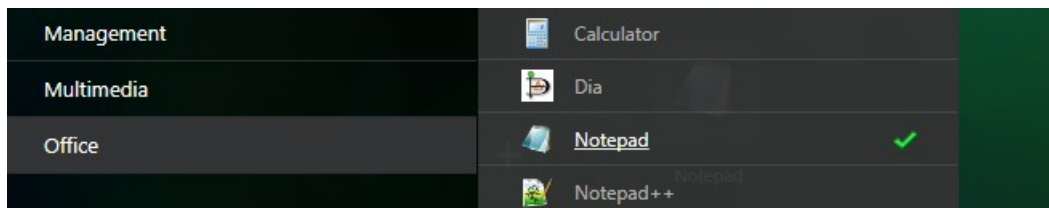
Note: By clicking Browse, you will be able to view the file directory for the machine running Citrix Studio. If this machine does not have the application you want, you will need to enter the location of the application manually.

Command line argument (optional):

Example: <https://www.Example.com>

Working directory:

%SystemRoot%\System32 Browse...



Select an operating system and machine type for this Machine Catalog.

- Windows Desktop OS
The Desktop OS Machine Catalog provides VDI desktops ideal for a variety of different users.
- Windows Server OS
The Server OS Machine Catalog provides hosted shared desktops for a large-scale deployment of standardized machines.
- Remote PC Access
The Remote PC Access Machine Catalog provides users with remote access to their physical office desktops, allowing them to work at any time.

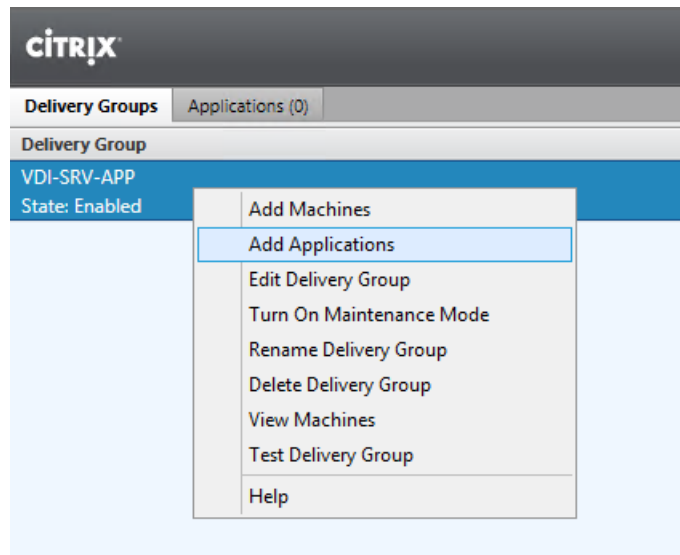
Delivery Type

You can use the machines in the Catalog to deliver desktops and applications to your users.

[Learn more](#)

Use the machines to deliver:

- Desktops
- Desktops and Applications
- Applications



Studio

- Users
- Delivery Type
- Application Prelaunch**
- Application Lingering
- Basic settings
- Access Policy
- Restart Schedule

Prelaunch Sessions for Applications

With prelaunch, sessions launch when users log on to Receiver, so applications are available sooner.

When do you want sessions to launch?

- Launch when users start an application (no prelaunch)
- Prelaunch when any user in the Delivery Group logs on to Receiver for Windows
- Prelaunch when any of the following users log on to Receiver for Windows:

Add... Remove

If no application is started, when do you want prelaunched sessions to end?

After a specified time: Hours 2 - +

- When average load on all machines exceeds (%): 70 - +
- When load on any machine exceeds (%): 70 - +

Studio

- Users
- Delivery Type
- Application Prelaunch
- Application Lingering**
- Basic settings
- Access Policy
- Restart Schedule

Lingering Sessions for Applications

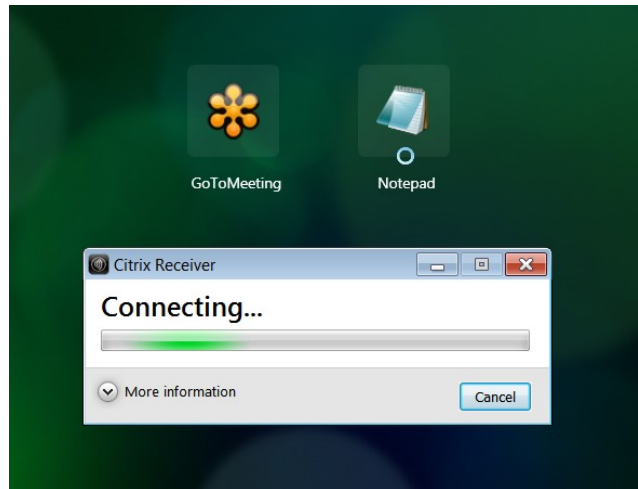
With lingering, sessions remain active after all applications are closed.

When do you want sessions to end?

- Immediately after all applications in the session are closed (no lingering)
- Keep sessions active until:

After a specified time: Hours 8 - +

- The average load on all machines exceeds (%): 70 - +
- The load on any machine exceeds (%): 70 - +



File Type Association

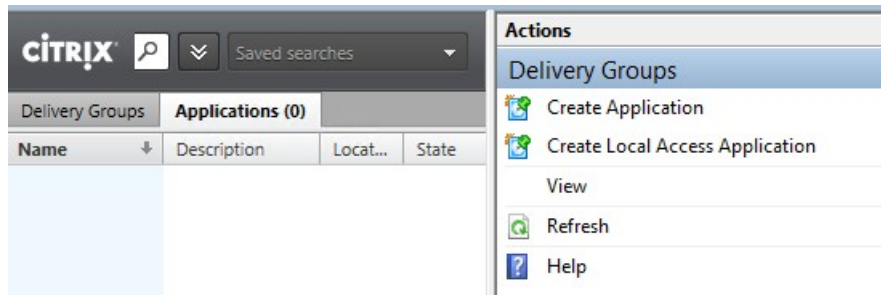
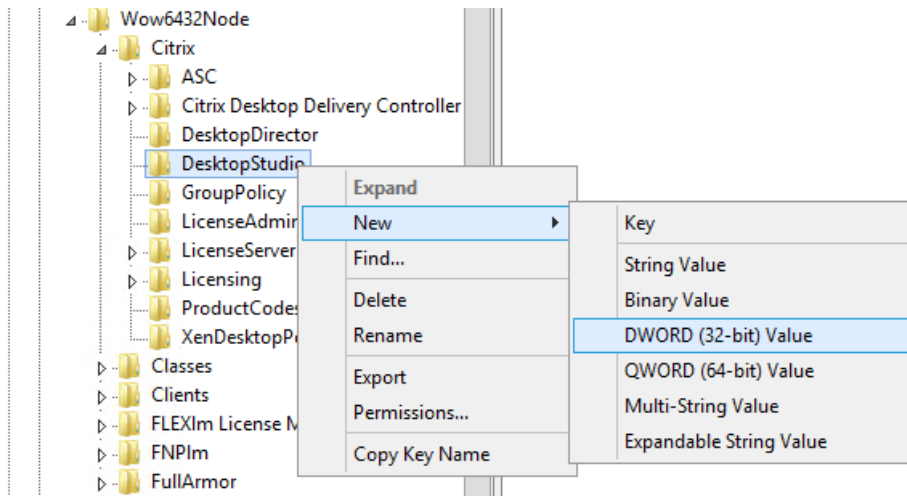
Enter the file type associations below.

By default, this application will automatically open the file extensions listed below.

Extension	File Type
<input checked="" type="checkbox"/> .txt	
<input type="checkbox"/> .compositefont	
<input type="checkbox"/> .inf	
<input type="checkbox"/> .ini	
<input type="checkbox"/> .log	
<input type="checkbox"/> .ps1	
<input type="checkbox"/> .psd1	
<input type="checkbox"/> .psm1	
<input type="checkbox"/> .scp	
<input type="checkbox"/> .sct	
<input type="checkbox"/> .wsc	
<input type="checkbox"/> .wtx	

Update file types...

Publishing the Local Access Apps (LAA)



Location

Enter the location information below.

Enter path of the local application on the end users operating system:

Note: By clicking Browse, you will be able to view the file directory for the machine running Citrix Studio. If this machine does not have the application you want, you will need to enter the location of the application manually.

Command line argument (optional):

Working directory:

Delivery

Specify how this application will be delivered to your users.

Application icon:

- Get the icon from the user's computer at run time
- Use custom icon:



- Add shortcut to client's start menu

Start menu location:

- Add shortcut on user's desktop

- Get the file types from the user's computer at run time
- Set the file types explicitly

By default, this application will automatically open the file extensions listed below.

.txt

Select settings

(All Versions) All Settings Allow local app access X

Settings: 1 selected

View selected only

✓ ▶ **Allow local app access** Edit Unselect
Computer setting
Allowed (Default: Prohibited)

Select settings

(All Versions) All Settings URL redirection black list X

Settings: 2 selected

View selected only

✓ ▶ **URL redirection black list** Edit Unselect
Computer setting
http://www.facebook*;http://www.twitter* (Default:)

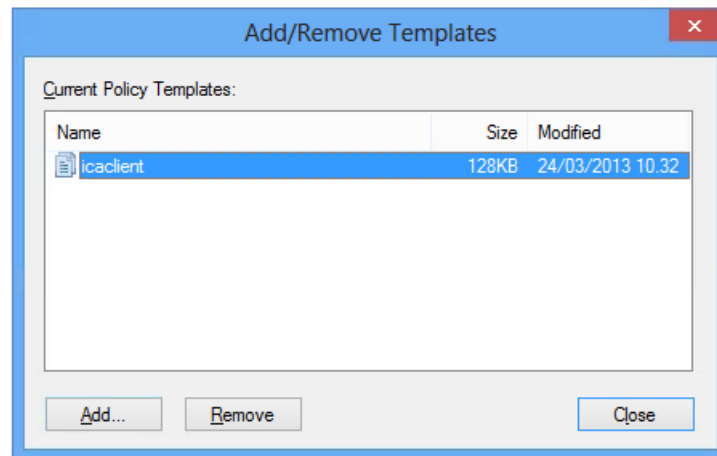
Select settings

(All Versions) All Settings URL redirection white list X

Settings: 3 selected

View selected only

✓ ▶ URL redirection white list [Edit](#) | [Unselect](#)
Computer setting
http://www.citrix* (Default:)



Citrix Receiver

User experience

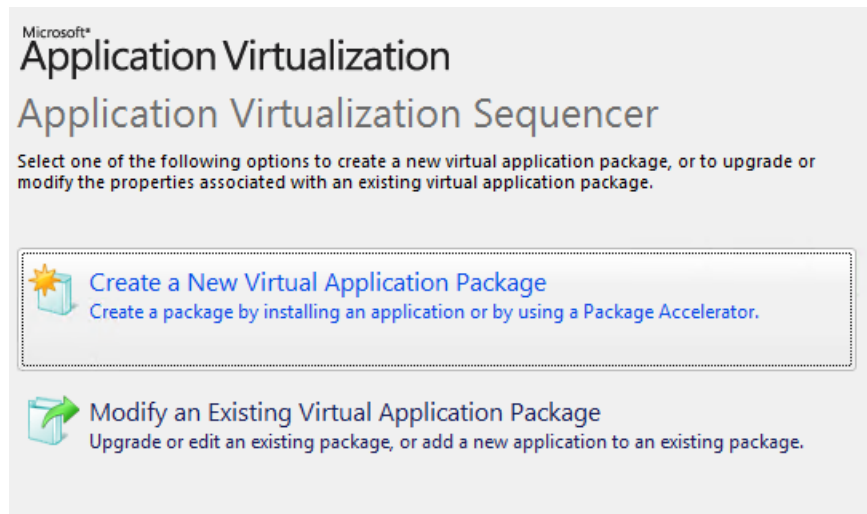
Description:
The Citrix Receiver can be configured to interact with client machine applications in different ways. These settings can be used to control how client machines present remote applications and desktops to the user.

Setting	State
Storefront	
Network routing	
User authentication	
Remoting client devices	
User experience	
Client Engine	
Multi-Stream ICA	
Allow client connections	Not configured
Host to client redirection settings	Not configured

VDI - Desktop Viewer

The screenshot shows a Windows desktop with a blue background. On the left, there are icons for 'Recycle Bin' and 'Write-Wordpad'. A search window is open on the right, displaying 'Apps Results for "write"'. The search results list 'Write-Wordpad' and 'write'.

Publishing applications using Microsoft App-V



Select the method for creating a package.



Create Package (default)

Create a package by installing an application on this computer while App-V monitors the installation.



Create Package Using a Package Accelerator

Create a package by applying a previously created Package Accelerator. Package Accelerator uses application setup files to create a virtual application package automatically.

Describe the type of application you want to package.



Standard Application (default)

Create a package that contains an application or suite of applications. You should select this option for most applications.



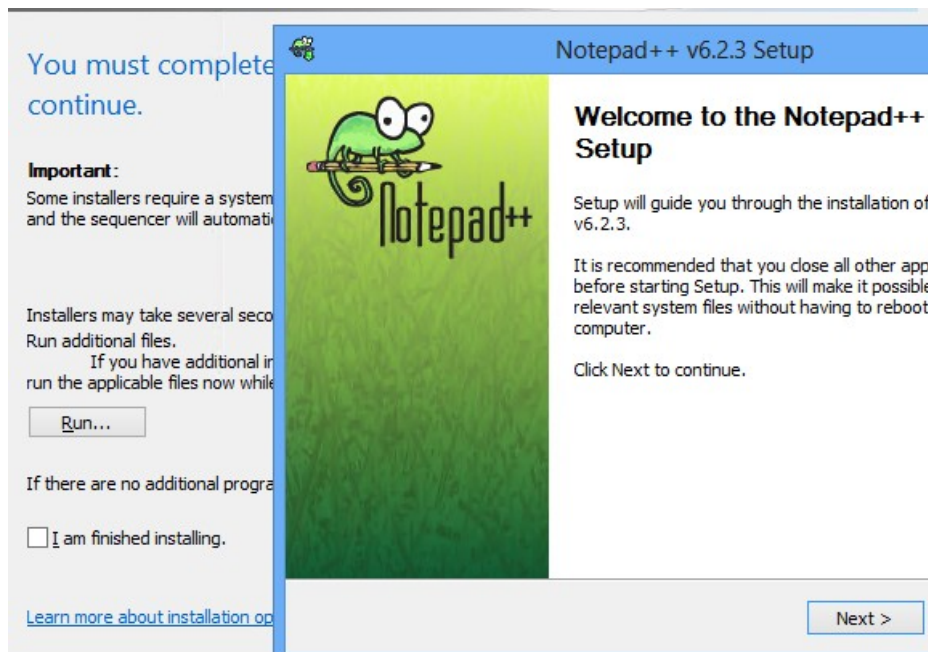
Add-on or Plug-in

Create a package that extends the functionality of standard applications. For example, a plug-in for Microsoft Excel®.



Middleware

Create a package for middleware or framework software that is required by a standard package.



Run each program briefly to optimize the package over slow or unreliable networks.

To improve the initial end user experience over slow or unreliable networks, start each application and execute the most common tasks.

Name	Command Line
Notepad++	✓ "C:\Program Files (x86)\Notepad++\notepad+....

Force application(s) to be fully downloaded before launching (recommended for slow/WAN networks).
Note: if this is selected, all optimizations performed above will be lost.

Restrict operating systems for this package.

- Allow this package to run on any operating system.
- Allow this package to run only on the following operating systems.

32-bit

- Windows 7 32-bit
- Windows 8 32-bit

64-bit

- Windows 7 64-bit
- Windows Server 2008 R2 Remote Desktop Services
- Windows 8 64-bit
- Windows Server 2012 Remote Desktop Services

Microsoft
Application Virtualization

PACKAGES

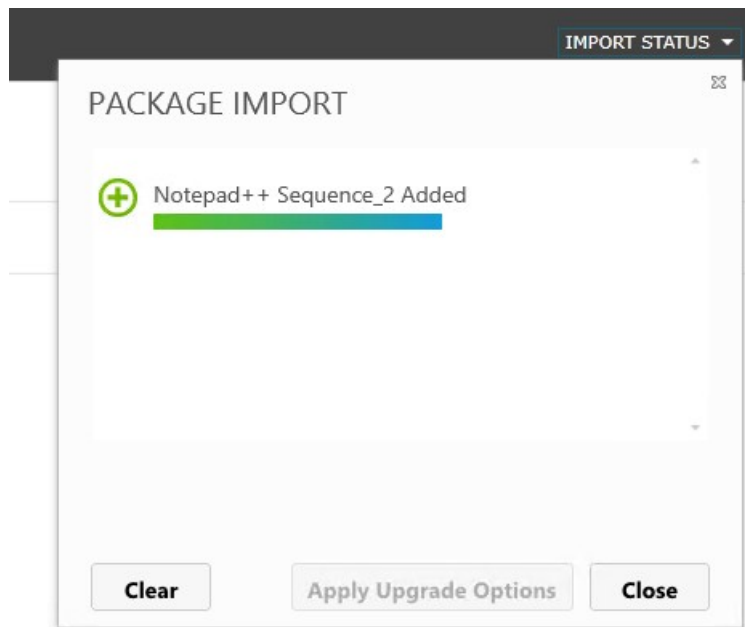
CONNECTION GROUPS

PACKAGES

Entire Library | 0 Applications in 0 Packages

Filter and Search

Name	Version	Status
------	---------	--------



Add App-V Publishing

App-V management server:
 ✓

App-V publishing server:
 ✓

Applications

The applications listed below were either found on the master image(s) or the App-V publishing server. You can also add applications manually (from other network locations) and edit the properties for individual applications.

[Learn more](#)

Select applications:

Application name	Location
<input type="checkbox"/> Immersive Control Panel	Master Image
<input type="checkbox"/> iSCSI Initiator	Master Image
<input type="checkbox"/> Magnify	Master Image
<input type="checkbox"/> Math Input Panel	Master Image
<input type="checkbox"/> Memory Diagnostics Tool	Master Image
<input type="checkbox"/> Narrator	Master Image
<input type="checkbox"/> Notepad	Master Image
<input checked="" type="checkbox"/> Notepad++	App-V
<input type="checkbox"/> ODBC Data Sources 32-bit	Master Image
<input type="checkbox"/> ODBC Data Sources 64-bit	Master Image
<input type="checkbox"/> On-Screen Keyboard	Master Image

[Add applications manually...](#) [Application Properties...](#)

All Applications		
	GoToMeeting	✓
	GoToTraining	
	GoToWebinar	
	Notepad++	✓
	VDI	✓



Create Package Accelerator

- Select Package
- Installation Files
- Gathering Information**
- Verify Applications
- Select Guidance
- Create Package Accelerator
- Completion

Select Files.

The following files were detected in the Package Accelerator. You should review all files and then und files you want to remove from the Package Accelerator.

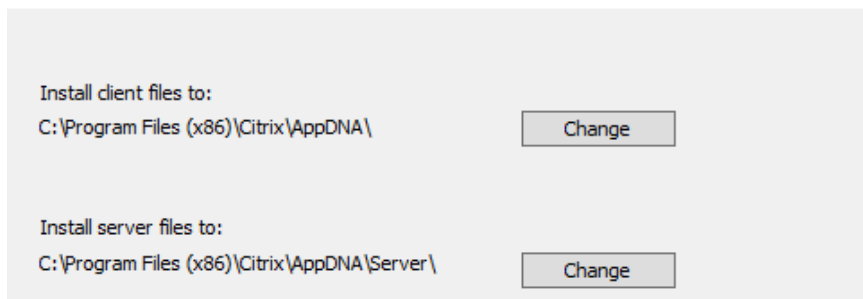
File Name	File T...	File Location	Include
Scratch\Root\VFS\AppVSystem32Logfiles\Scm\82b820f9-de95-401a-bc63-421918b11f56			
<input checked="" type="checkbox"/> 82b820f9-de95-401a-bc63-4...	Scrat...	C:\Users\administrator\AppData...	Yes
Scratch\Root\VFS\AppVSystem32Logfiles\Scm\e725e967-85b5-4142-8416-ca38961be13a			
<input checked="" type="checkbox"/> e725e967-85b5-4142-8416-...	Scrat...	C:\Users\administrator\AppData...	Yes
...			

Using Citrix AppDNA 7.6



Citrix AppDNA installation locations

Click change if you want to change the default locations.



AppDNA

Installation Wizard Completed

The Installation Wizard has successfully installed Citrix AppDNA. Click Finish to exit the wizard.

- Launch the Configuration Wizard to configure this new installation.



Configure AppDNA

Web server

- Configure new installation**
Configure a new AppDNA installation
- Upgrade installation**
Upgrade an existing AppDNA installation
- Licensing**
Manage your AppDNA licensing

Database creation
Enter new database details

CITRIX

Configure AppDNA
Web server
Create database

Server name: DBMACHINE\INSTANCE
Example: MACHINE or MACHINE\INSTANCE

Database name: AppDNADB

Database Authentication

Windows authentication
 SQL Server authentication

Activate now. Go to www.citrix.com and download your license file.

AppDNA

License server machine: WBIWINCSF02T

License file:

Run in trial mode

Activate a XenDesktop or XenApp Platinum license

Platinum license server

Machine:

Port: 27000

Configure AppDNA
Web server
Create database
Connect to database
License database
System check
Progress

Step 4 of 29

15/04/2015 21:16:38: Creating Web site


Creating your database
Preparing the database
Installing the database

AppDNA

Username
DOMAIN\administrator


Password
.....

Remember Me



Desktop Compatibility

Select your Desktop operating systems



- Welcome
- Desktop**
- Server
- Virtualization
- Web Browser
- XenApp Hosted
- Progress

My enterprise is working on a Windows desktop migration project

Select the operating systems you are moving from and to:

From	To
<input checked="" type="checkbox"/> Windows XP	<input type="checkbox"/> Windows 7
<input type="checkbox"/> Windows Vista	<input checked="" type="checkbox"/> Windows 8/8.1
<input checked="" type="checkbox"/> Windows 7	

We use English versions of Windows only

My enterprise is not working on a Windows desktop migration project at this time

- Welcome
- Desktop
- Server**
- Virtualization
- Web Browser
- XenApp Hosted
- Progress

My enterprise is working on a Windows server migration project

Select the operating systems you are moving from and to:

From	To
<input type="checkbox"/> Windows Server 2003	<input type="checkbox"/> Windows Server 2008 R2
<input checked="" type="checkbox"/> Windows Server 2008	<input checked="" type="checkbox"/> Windows Server 2012/2012 R2
<input checked="" type="checkbox"/> Windows Server 2008 R2	

Welcome
 Desktop
 Server
Virtualization
 Web Browser
 XenApp Hosted
 Progress

My enterprise is working on an application virtualization project

Select the technologies and versions for which you want to evaluate

App-V

App-V 4.5 App-V 4.6 SP1
 App-V 5

My enterprise is not working on an application virtualization project at this time

Welcome
 Desktop
 Server
 Virtualization
Web Browser
 XenApp Hosted
 Progress

My enterprise is working on adopting new Web browsers

Select the browsers for which you want to evaluate Web applications.

Internet Explorer

Internet Explorer 8.0 32-bit only
 Internet Explorer 9.0 32-bit and 64-bit
 Internet Explorer 10.0
 Internet Explorer 11.0

FireFox

FireFox (all versions)

WorxWeb

WorxWeb (all versions)

My enterprise is not working on adopting new Web browsers at this time

Import & Analyze | **AppDNA Dashboard**

Discover Applications

Import

- Applications
- Web Applications
- Operating Systems
- Managed Applications

Analyze

- Analyze

Applications
0

Desktop applications: [Import desktop applications](#)

Web applications: 0 [Import web applications](#)

Report summary

Import Applications

Browse... | Search...

Direct Import (0/0) | Install

Select all MSTs Expand all MSTs

Drag a column header here to group by that column.

Status

File name: projectlibre-1.5.9

Name
mscscope_v0.12_x64
MobaXterm_Setup_7.6
projectlibre-1.5.9
ShareFileSync32_3.2.508.0
ShareFileSync64_3.2.508.0
StorageCenter_3.0.1.1302

Import Applications Add new applications to your portfolio

Browse... | Search... | Import from list | Select ▾ | Backup | Restore | Show progress panel | Cancel | **Import** | **Analyze**

Direct Import (1/1) | Install Capture (0/0) | Self Provisioning

Select all MSTs Expand all MSTs | Delete | Properties...

Drag a column header here to group by that column.

	Status	Filename	Path	Progress
1	<input checked="" type="checkbox"/>	projectlibre-1.5.9.msi	\\192.168.200.5\c\$\Software\projectlibre-1.5.9.msi	Loading Completed.

← Previous Finish →

Which report would you like to view?

Forward Path: Forward Path
 Overview Summary: Overview Summary
 Forward Path: Forward Path
 Desktop Compatibility Manager: Windows 8/8.1
 SBC Manager: XenApp Hosted / TS
 Server Compatibility Manager: Server 2012/2012 R2


Analysis results

✓ 242 out of 242 algorithms succeeded ⌵ 4 mins, 15 secs

Algorithm Succeeded ▾

Algorithm Succeeded : True (242 items)


Report	Algorithm Group	Algorithm	Manifestation	Time Taken	Failure Reason
Windows 8/8.1	Deprecated comp...	W8_PAE_001	The physical ad...	0:00:00,299	
Windows 8/8.1	Drivers	WIN8_DRVx64_...	32-bit Kernel M...	0:00:00,121	

 **Windows 8/8.1**
 Application Issues

Applications: 1

Image (from): Default Image for Windows XP 32-bit
 Image (to): Default Image for Windows 8.1
 Date: 17/04/2015 21:53:40

Standard Summary

RAG	Count	% of Total	Standard Summary Chart
R	0	0%	
A	0	0%	
G	1	100%	
U	0	0%	
⚡	0	0%	
Total	1	100.0%	

Application Analysis

← Previous

Which report would you like to view?

- Overview Summary: Overview Summary
- Overview Summary: Overview Summary
- Forward Path: Forward Path
- WebApp Compatibility Manager: Firefox
- WebApp Compatibility Manager: IE

Analysis results

✓ 195 out of 195 algorithms succeeded


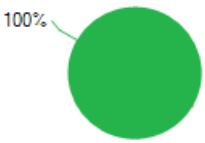




🕒 2 mins, 14 secs

Algorithm Succeeded ▾

Algorithm Succeeded : True (195 items)

Report	Algorithm Group	Algorithm	Manifestation	Time Taken	Failure Reason
Firefox	ActiveX	FF_AX_1	Detects presenc...	0:00:00,016	
Firefox	x64	FF_x64_001	AppDNA has de...	0:00:00,063	

Options: [Change images](#) . **Export:** [Detailed](#) . [Excel](#) . [PDF](#) . [MHT](#) . [Print](#)

Custom Summary			
RAG	Count	% of Total	Custom Summary Chart
 R	0	0%	
 A	0	0%	
 G	1	100%	
 U	0	0%	
	0	0%	
Total	1	100%	

Chapter 7: XenDesktop Infrastructure Tuning

Configuring the XenDesktop policies

The screenshot displays the Citrix Studio interface for configuring XenDesktop policies. On the left, the navigation pane shows the 'Policy' menu item highlighted with a red box. The main content area shows the 'Policies' tab with an 'Unfiltered' policy selected. The 'Actions' pane on the right is also visible, with the 'Create Policy' button highlighted by a red box.

Citrix Studio (XD7-Site-First)

- Search
- Machine Catalogs
- Delivery Groups
- Policy**
- Logging
- Configuration
 - Administrators
 - Controllers
 - Hosting
 - Licensing
 - StoreFront
 - App-V Publishing

CITRIX

Policies | Templates | Comparison | Modelling

Policies

Unfiltered

Overview	Settings	Assigned to
Name:	Unfiltered	
Priority:	1	
Status:	Enabled	
Description:	This is the system-created default policy, it cannot be deleted. Note that its settings will apply to all connections.	

Actions

- Policy**
- Create Policy**
- View
- Refresh
- Help
- Unfiltered**
- Edit Policy...
- Lower Priority
- Disable Policy
- Save as Template...
- Help

Select settings

(All Versions) **Bandwidth**

Settings: 0 selected **All Settings** View selected only

▶ Audio redirection bandwidth User setting Not Configured (Default)	ICA	Select
▶ Audio redirection bandwidth User setting Not Configured (Default)	Adobe Flash Delivery	Select
▶ Audio redirection bandwidth User setting Not Configured (Default)	Flash Redirection	Select
▶ Audio redirection bandwidth User setting Not Configured (Default)	Audio	Select
▶ Client USB device redirection User setting Not Configured (Default)	Auto Client Reconnect	Select
▶ Client USB device redirection User setting Not Configured (Default)	Bandwidth	Select
▶ Client USB device redirection User setting Not Configured (Default)	Client Sensors	Select
▶ Client USB device redirection User setting Not Configured (Default)	Location	Select
▶ Clipboard redirection User setting Not Configured (Default)	Desktop UI	Select
▶ Clipboard redirection User setting Not Configured (Default)	End User Monitoring	Select
▶ Clipboard redirection User setting Not Configured (Default)	Enhanced Desktop Experience	Select
▶ Clipboard redirection User setting Not Configured (Default)	File Redirection	Select

Audio subsection

Select settings

(All Versions) Audio

Settings: 14 selected View selected only

✓ ▶ Audio over UDP real-time transport	Edit Unselect
User setting Enabled (Default: Enabled)	
✓ ▶ Audio Plug N Play	Edit Unselect
User setting Allowed (Default: Allowed)	
✓ ▶ Audio quality	Edit Unselect
User setting (Default: High - high definition audio)	
✓ ▶ Client audio redirection	Edit Unselect
User setting Allowed (Default: Allowed)	
✓ ▶ Client microphone redirection	Edit Unselect
User setting Allowed (Default: Allowed)	

Multi-Stream Connections subsection

Edit Setting

Multi-Port Policy
Applies to: XenDesktop: 5.5, 5.6 Feature Pack 1, 7.0 Server OS, 7.0 Desktop OS

CGP default port:	CGP default port priority:
<input type="text" value="Default Port"/>	<input type="text" value="High"/>
CGP port1:	CGP port1 priority:
<input type="text" value="5100"/>	<input type="text" value="Very High"/>
CGP port2:	CGP port2 priority:
<input type="text" value="5004"/>	<input type="text" value="Medium"/>
CGP port3:	CGP port3 priority:
<input type="text" value="9100"/>	<input type="text" value="Low"/>

Use default value:

WebSockets subsection

WebSockets trusted origin server list

Applies to: XenDesktop: 7.0 Server OS, 7.0 Desktop OS

Value:

Use default value: *

▼ Details and related settings

Comma-separated list of trusted origin servers expressed as URLs with the option of using wildcards.

Basic settings subsection

Edit Setting

Excluded groups
Applies to: XenDesktop: 5.0, 5.5, 5.6 Feature Pack 1, 7.0 Server OS, 7.0 Desktop OS

Enabled
This setting will be enabled.
XDSEVEN\helpdesk

Disabled
This setting will be disabled.

Use default value:

Virtual Delivery Agent Settings section

Studio

✓ Settings
Users and Machines
Summary

Assign policy to user and machine objects

Assign to selected user and machine objects Assign to all objects in a site

User and machine objects: 0 selected View selected only

- ▶ **Access control** [Assign](#)
Applies to user settings only
- ▶ **Citrix CloudBridge** [Assign](#)
Applies to user settings only
- ▶ **Client IP address** [Assign](#)
Applies to user settings only
- ▶ **Client name** [Assign](#)
Applies to user settings only
- ▶ **Delivery Group** [Assign](#)
Applies to all settings

Summary

View a summary of the settings you configured and provide a name for your new policy.

Policy name: Enable policy

Description:

Settings configured: 12

Always cache
Computer setting
Disabled (Default: Disabled)
Always cache size
Computer setting
0 (Default: 0)
Enable auto update of controll...
Computer setting
Allowed (Default: Allowed)
Enable lossless
User setting
Allowed (Default: Allowed)

Assigned to: user and machine objects

The settings are applied to all objects in the site.

Policy templates

The screenshot shows the Citrix management console interface for Policy Templates. At the top, the Citrix logo is displayed on a dark grey background. Below the logo is a navigation bar with four tabs: Policies, Templates (which is selected and highlighted), Comparison, and Modelling. The main content area is titled "Templates" and is divided into two columns. The left column, titled "Citrix templates", contains a list of four templates: "High Definition User Experience", "High Server Scalability", "Optimized for WAN", and "Security and Control". The "Security and Control" template is currently selected, indicated by a blue highlight. The right column, titled "Security and Control", contains two sub-tabs: "Description" (which is active) and "Settings". The "Description" tab shows the text: "Apply this template to disable use c additional details about this templa".

CITRIX

Policies **Templates** Comparison Modelling

Templates

Citrix templates

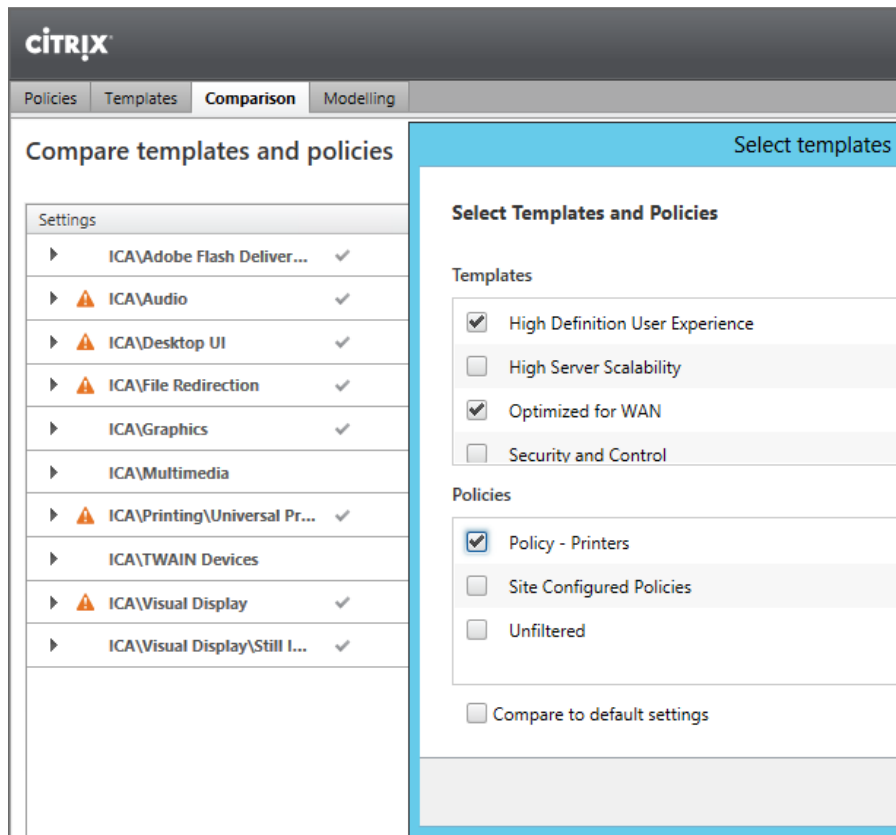
- High Definition User Experience
- High Server Scalability
- Optimized for WAN
- Security and Control**

Security and Control

Description Settings

Apply this template to disable use c additional details about this templa

Policy comparison



The screenshot shows the Citrix Policy Comparison tool interface. The top navigation bar includes 'Policies', 'Templates', 'Comparison', and 'Modelling'. The main area is titled 'Compare templates and policies' and is divided into two panes. The left pane, 'Settings', lists various ICA settings with expandable arrows and checkmarks, including 'ICA\Adobe Flash Deliver...', 'ICA\Audio', 'ICA\Desktop UI', 'ICA\File Redirection', 'ICA\Graphics', 'ICA\Multimedia', 'ICA\Printing\Universal Pr...', 'ICA\TWAIN Devices', 'ICA\Visual Display', and 'ICA\Visual Display\Still I...'. The right pane, 'Select templates', is titled 'Select Templates and Policies' and contains two sections: 'Templates' and 'Policies'. The 'Templates' section has four items: 'High Definition User Experience' (checked), 'High Server Scalability' (unchecked), 'Optimized for WAN' (checked), and 'Security and Control' (unchecked). The 'Policies' section has three items: 'Policy - Printers' (checked), 'Site Configured Policies' (unchecked), and 'Unfiltered' (unchecked). At the bottom of the right pane, there is a checkbox for 'Compare to default settings' which is unchecked.

CITRIX

Policies Templates **Comparison** Modelling

Compare templates and policies Select templates

Settings

- ICA\Adobe Flash Deliver... ✓
- ICA\Audio ✓
- ICA\Desktop UI ✓
- ICA\File Redirection ✓
- ICA\Graphics ✓
- ICA\Multimedia
- ICA\Printing\Universal Pr... ✓
- ICA\TWAIN Devices
- ICA\Visual Display ✓
- ICA\Visual Display\Still I... ✓

Select Templates and Policies

Templates

- High Definition User Experience
- High Server Scalability
- Optimized for WAN
- Security and Control

Policies

- Policy - Printers
- Site Configured Policies
- Unfiltered

Compare to default settings

Policy modeling

The screenshot shows the 'Citrix Group Policy Modeling Wizard' window. The title bar includes standard Windows window controls (minimize, maximize, close). On the left, a 'Steps' sidebar lists: Welcome, Domain Controller, **Users and Computers** (highlighted), Filter Evidence, Advanced Options, Summary, and Results. The main area is titled 'User and Computer Selection' and contains the following text: 'Example container name: OU=Domain Controllers,DC=XDSEVEN,DC=local' and 'Example user or computer: XDSEVEN\administrator'. Below this, it says 'Simulate policy settings for the following:'. There are two sections: 'User Information' and 'Computer Information'. Each section has a radio button for 'Container' (selected) and a radio button for 'User' or 'Computer'. Each selected option is followed by a text input field and a 'Browse...' button.

Citrix Group Policy Modeling Wizard

Steps

- Welcome
- Domain Controller
- Users and Computers**
- Filter Evidence
- Advanced Options
- Summary
- Results

User and Computer Selection

Example container name: OU=Domain Controllers,DC=XDSEVEN,DC=local
Example user or computer: XDSEVEN\administrator

Simulate policy settings for the following:

User Information

Container:

User:

Computer Information

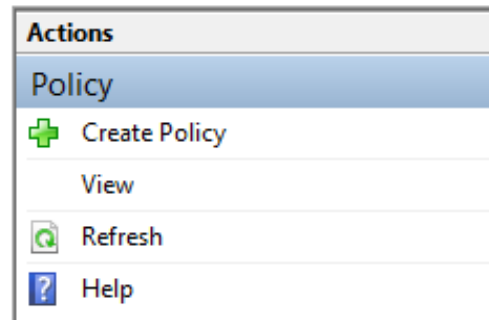
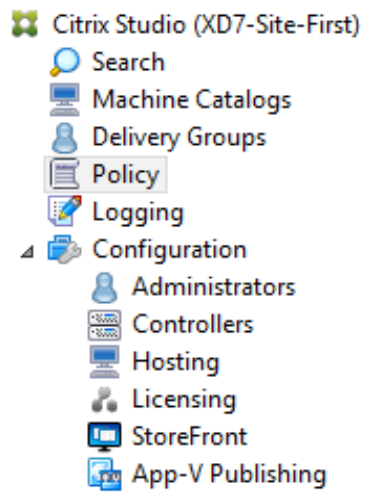
Container:

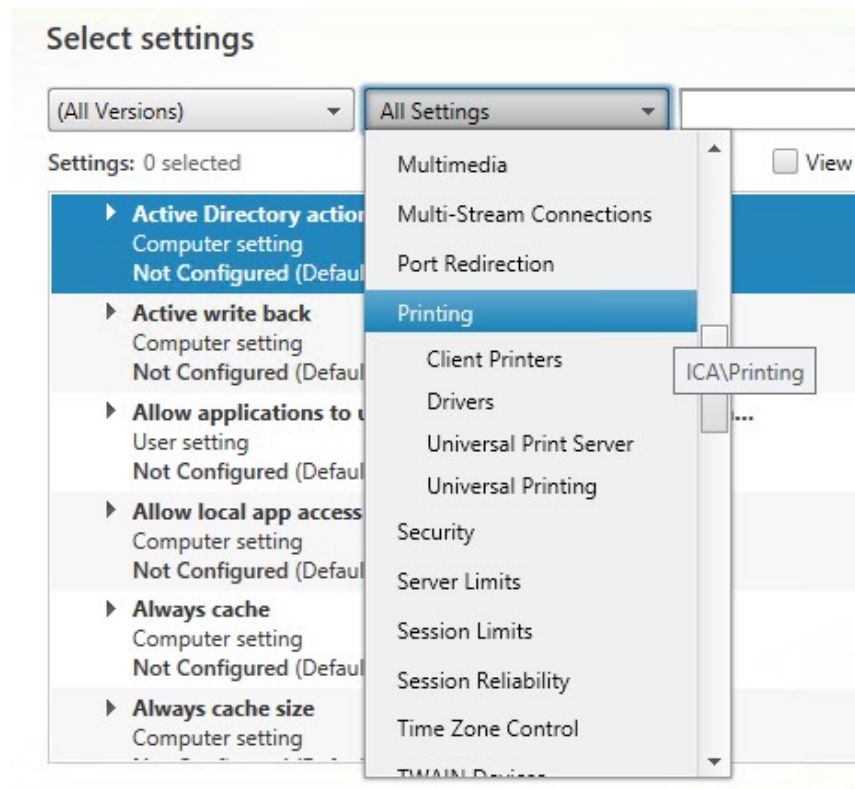
Computer:

Citrix Computer Policies		
Filter Results		
Setting	Value	Winning GPO / Citrix Policy
Virtual IP adapter address filtering	Disabled	Machine Site Settings/Site Configured Policies
Enable auto update of controllers	Allowed	Machine Site Settings/Site Configured Policies
Exclusion list		Machine Site Settings/Site Configured Policies
Inclusion list		Machine Site Settings/Site Configured Policies

Citrix User Policies		
Filter Results		
Setting	Value	Winning GPO / Citrix Policy
HDX3DPro quality settings	6553600	User Site Settings/Site Configured Policies
Enable lossless	Allowed	User Site Settings/Site Configured Policies
Receiver\Storefronts		User Site Settings/Site Configured Policies
Default printer	Disabled	User Site Settings/Policy - Printers
Printer driver mapping and compatibility	Disabled	User Site Settings/Policy - Printers
Session printers	Disabled	User Site Settings/Policy - Printers
Universal driver preference	Disabled	User Site Settings/Policy - Printers

Configuring printers





Select settings

(All Versions) Printing

Settings: 0 selected

View selected only

- ▶ **Auto-create client printers** [Select](#)
User setting
Not Configured (Default: Auto-create all client printers)
- ▶ **Auto-create generic universal printer** [Select](#)
User setting
Not Configured (Default: Disabled)
- ▼ **Automatic installation of in-box printer drivers** [Select](#)
User setting
Not Configured (Default: Enabled)
Enables or disables the automatic installation of printer drivers from the Windows in-box driver set or from driver packages which have been staged onto the host using "pnputil.exe /a". By default, these drivers are installed as needed.
- ▶ **Client printer names** [Select](#)
User setting
Not Configured (Default: Standard printer names)
- ▶ **Client printer redirection** [Select](#)
User setting
Not Configured (Default: Allowed)

Assign policy to user and machine objects

Assign to selected user and machine objects

Assign to all objects in a site

User and machine objects: 0 selected

View selected only

▶ Access control Applies to user settings only	Assign
▶ Citrix CloudBridge Applies to user settings only	Assign
▼ Client IP address Applies to user settings only Apply policy based on the IP address of the user device used to connect to the session.	Assign
▶ Client name Applies to user settings only	Assign
▼ Delivery Group Applies to all settings Apply policy based on the delivery group membership of the desktop running the session.	Assign

Summary

View a summary of the settings you configured and provide a name for your new policy.

Policy name: Enable policy

Description:

Click a cell to select it. To edit the cell, either click again or press F2. Press the Enter key when editing a cell.

Client Names/IP's	Default Printer	Session Printers
VDI-01	Client main printer	<input type="button" value="Add..."/>

Image Compression

Desired image quality:

Enable heavyweight compression

Image and Font Caching

Allow caching of embedded images

Allow caching of embedded fonts

Allow non-administrators to modify these settings

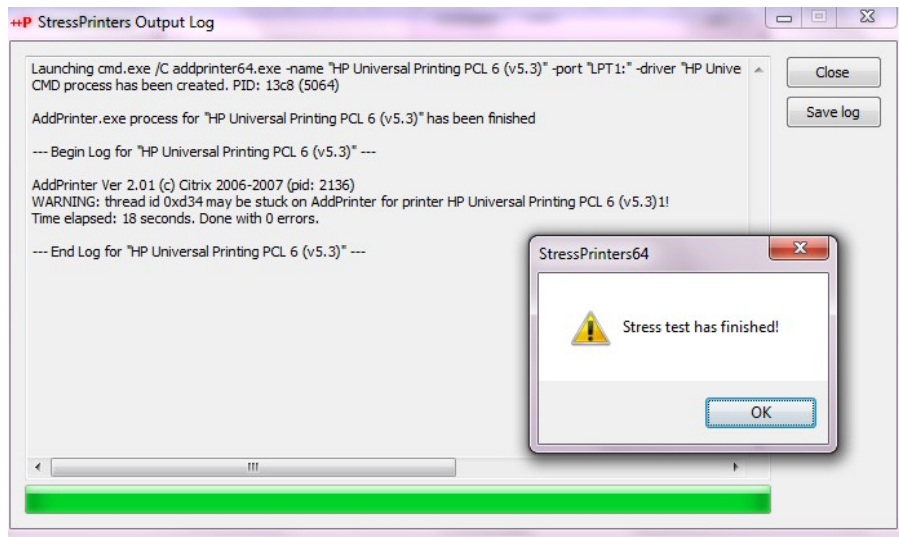
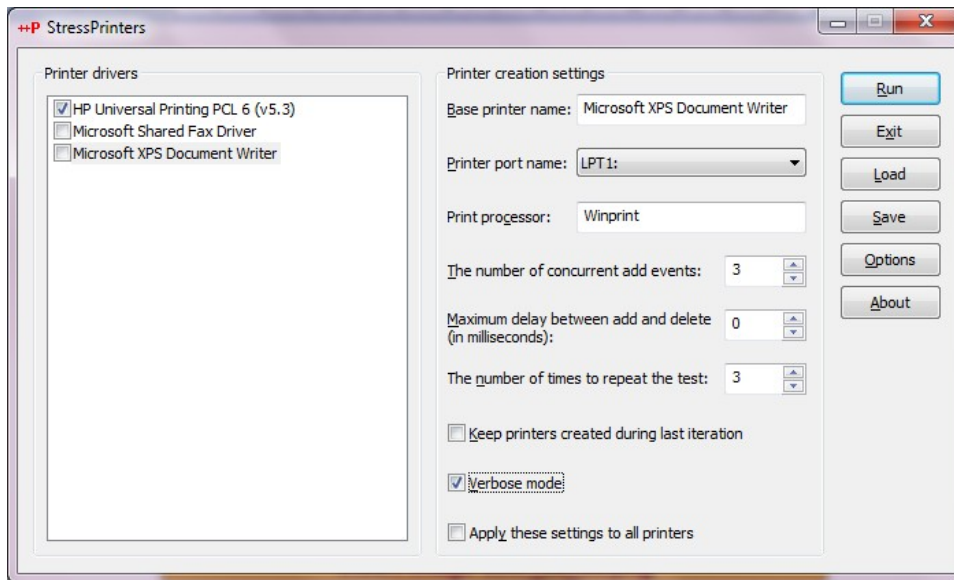
Use default value: ImageCompression=StandardQuality,HeavyweightCompression=False,ImageCaching=True,

Value:

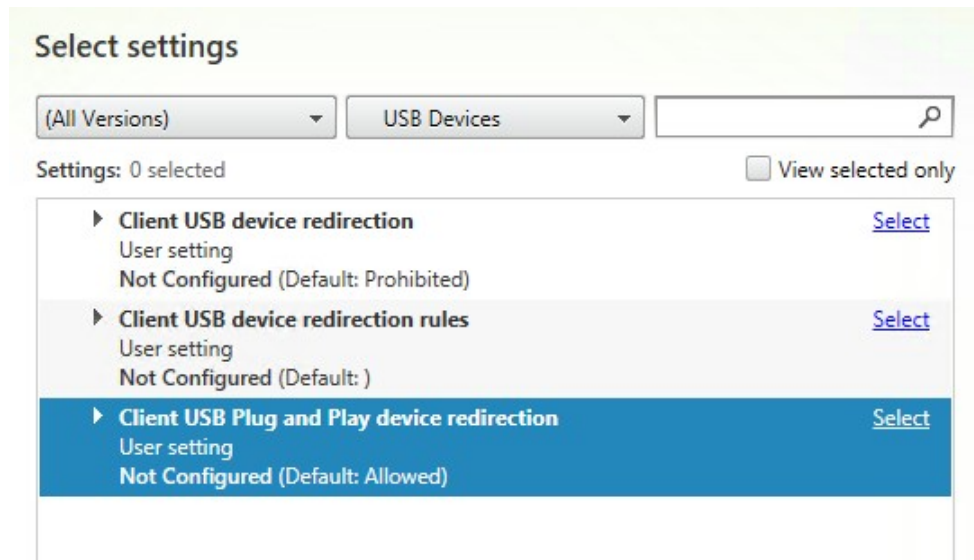
Use al printers

▼ **Detail:**

Specifies whether to use the print preview function for auto-created or generic universal printers. By default, print preview is not used for auto-created or generic universal printers.

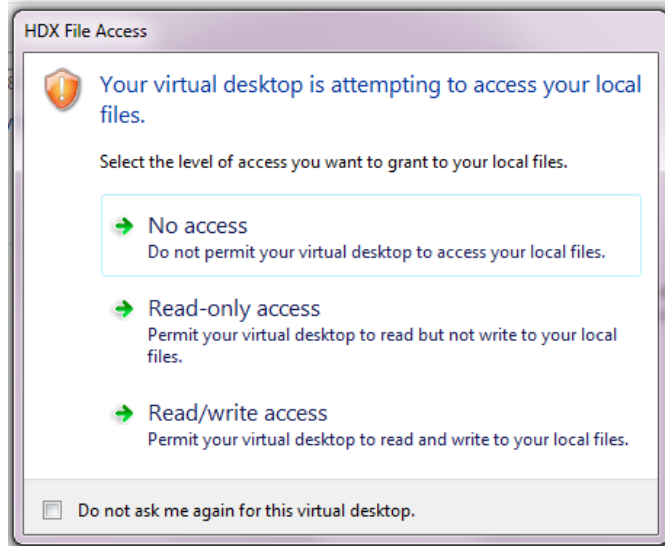


Configuring USB devices



Choose how to access files on your computer from your virtual desktop

- Read and write
- Read only
- No access
- Ask me each time



Client USB device redirection rules

Applies to: XenDesktop: 5.0, 5.5, 5.6 Feature Pack 1, 7.0 Server OS, 7.0 Desktop OS

Values:

Use default value:

▼ Details and related settings

Lists redirection rules for USB devices.

Configuring the XenDesktop logging

CITRIX				
Administrator	Main task	Start	End	Status
<ul style="list-style-type: none"> Today <ul style="list-style-type: none"> XDSEVEN\Administrator Update HDX Policies 10/11/2013 : 11.29.49 10/11/2013 : 11.29.52 Successful Yesterday <ul style="list-style-type: none"> XDSEVEN\Administrator Update HDX Policies 09/11/2013 : 17.41.29 09/11/2013 : 17.41.32 Successful Three Weeks Ago <ul style="list-style-type: none"> XDSEVEN\Administrator Create Application 'Notepad++' 27/10/2013 : 02.57.41 27/10/2013 : 02.58.20 Successful XDSEVEN\Administrator Remove Machine Configuration '5' from Desk... 27/10/2013 : 02.47.53 27/10/2013 : 02.47.56 Successful XDSEVEN\Administrator Delete Application 'Notepad++' 27/10/2013 : 02.47.29 27/10/2013 : 02.47.59 Successful XDSEVEN\Administrator Update Application 'Notepad++' 27/10/2013 : 02.36.36 27/10/2013 : 02.36.52 Successful XDSEVEN\Administrator Update Application 'Notepad++' 27/10/2013 : 02.33.58 27/10/2013 : 02.34.19 Successful 				

Configuration Logging

- Disable
 Enable

Logging database (where configuration logs are stored)

Database size: 0
 Server location: SqlDatabaseServer.xdseven.local\CITRIX,1434
 Database name: CitrixXD7-Site-First

Change logging database...

Security:

- Allow changes when the database is disconnected
 Administrators can make untracked changes.

Date Range

Select a date range:

- All
- Last 24 hours
- Last 7 days
- Last 4 weeks
- Custom

Start date: 

End date: 

Format and Location

Select a format:

- CSV file
Best for exporting to a spreadsheet.
- HTML
Best for viewing or printing.
- Both

Location where you want to save your report:

Delete Configuration Logs

Configuration Logs will be deleted. Save a copy?

No

Yes

Select where to save the copy:

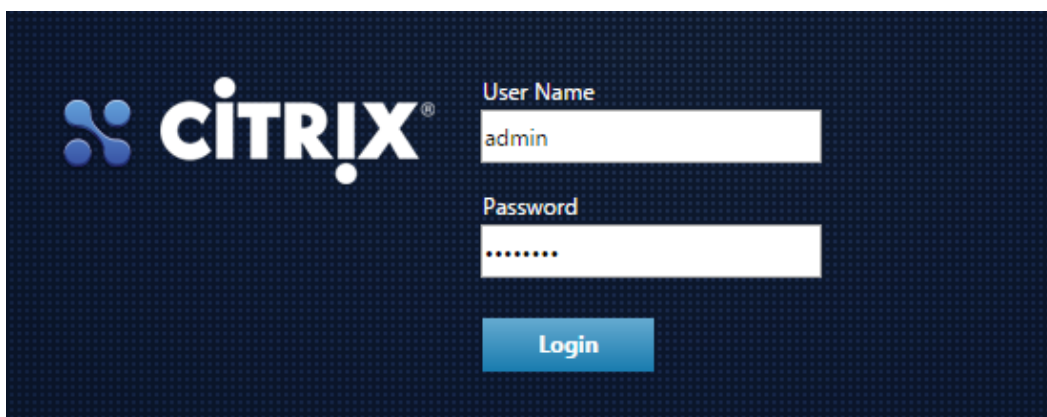
C:\Users\administrator.XDSEVEN\Documents\Log-Archiv

Chapter 8: XenDesktop Component Integration

Configuring the CloudBridge 7.4 platform

Use the "help" command to display help for a specific command.
Example: help show config-script

```
admin> show adapter apA
apA
Status:                Enabled
IP Address:            192.168.200.152
Network Mask:          255.255.255.0
Gateway:               192.168.200.32
IPv6 Address/PrefixLen: 0.0.0.0/0
IPv6 Gateway:          0.0.0.0
DHCP:                  Enabled
Web Management Access: Enabled
SSH Management Access: Enabled
VLAN:                  Disabled
VLAN Group:            0
Done
admin>
```



The image shows the Citrix login interface. On the left is the Citrix logo. To the right, there are two input fields: "User Name" with the text "admin" and "Password" with masked characters ".....". Below these fields is a blue "Login" button.

Management Access

Adapter*	<input type="text" value="apA"/>
IP Address*	<input type="text" value="192.168.200.152"/>
Gateway*	<input type="text" value="192.168.200.32"/>
Network Mask*	<input type="text" value="255.255.255.0"/>

System Services

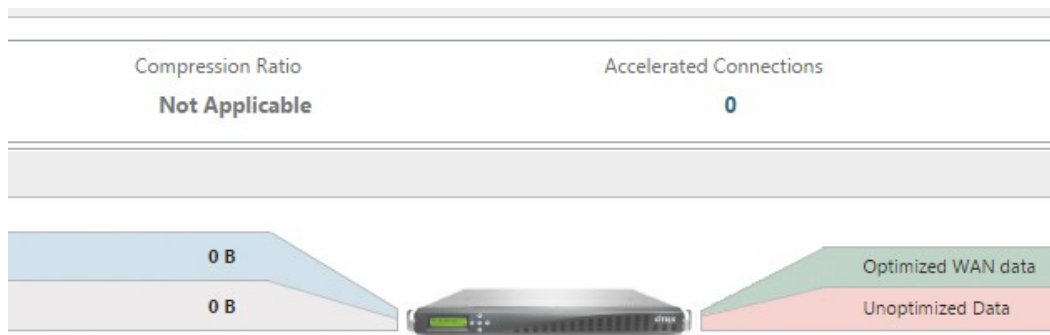
Primary DNS IP Address*	<input type="text" value="192.168.200.10"/>
Secondary DNS IP Address	<input type="text" value="192.168.200.6"/>
NTP Time Server	<input type="text" value="time.windows.com"/>
	(IP address or domain-name)
System Date	<input type="text" value="May"/> <input type="text" value="14"/> , <input type="text" value="2015"/>

WAN Link Definitions

Receive (Download) Speed*	<input type="text" value="90"/>	mbps ▼
Send (Upload) Speed*	<input type="text" value="10"/>	mbps ▼
WAN-Side Adapter*	<input type="text" value="apA.2"/>	

Restart Unit?

Installation changes were successful. You must restart your unit for these changes to take effect. Do you wish to restart now?



License Server Configuration

License Server Location

Local Remote

IP Address

192 . 168 . 200 . 11

Port

27000

Model*

Citrix CloudBridge V1 ▼

Crypto License (from Remote License Server)

On Off

Save

Cancel

Configure Application Classifiers

Name*

Description

Application Group*

Available (26)	Select All
Backup and Replication +	▶ ◀
Client-Server +	
Content Delivery +	
Custom +	

Configured (1)	Remove All
Citrix Protocols -	

Classification Type*

Port*

Name

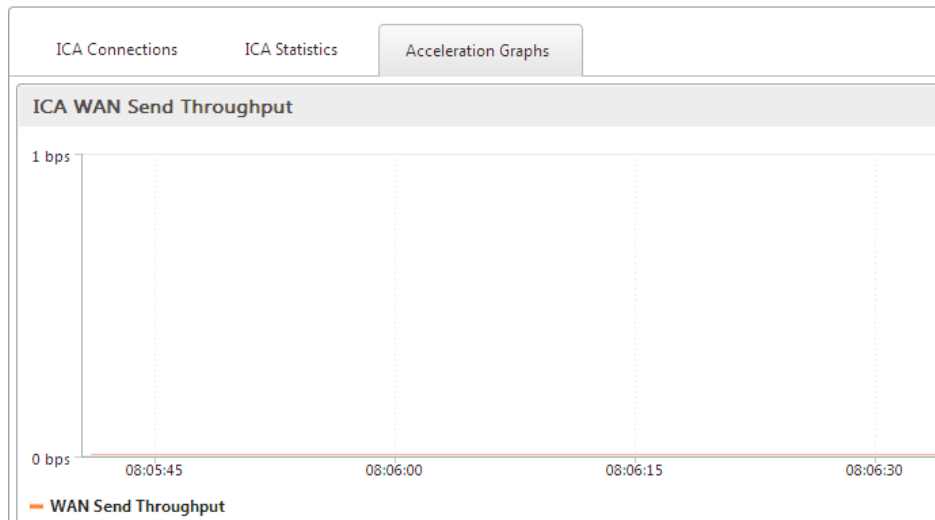
Link Type*

Bandwidth In* *

Bandwidth Out* *

Filter Rules

<input type="button" value="Add"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>			
Adapter	Source IP Address	Dest IP Address	VLAN
apA.1	Any	Any	Any



State

Signaling IP

192 . 168 . 200 . 154

Signaling Port

443

Signaling Channel Source Filtering

Connection Mode

Redirector Transparent

LAN Detection

Round Trip Time(ms)

20

Update

Cancel

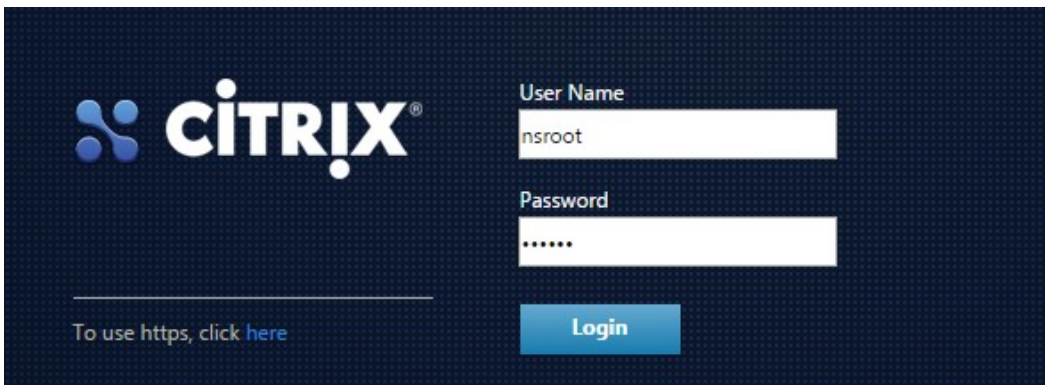
Installing and configuring Citrix Netscaler Gateway 10.5

```
!There is no ns.conf in the /nsconfig!

Start Netscaler software
tput: no terminal type specified and no TERM environmental variable.
Enter NetScaler's IPv4 address []: 192.168.200.53
Enter Netmask []: 255.255.255.0
Enter Gateway IPv4 address []: 102.168.200.1

-----
Netscaler Virtual Appliance Initial Network Address Configuration.
This menu allows you to set and modify the initial IPv4 network addresses.
The current value is displayed in brackets ([]).
Selecting the listed number allows the address to be changed.

After the network changes are saved, you may either login as nsroot and
use the Netscaler command line interface, or use a web browser to
http://192.168.200.53 to complete or change the Netscaler configuration.
-----
 1. NetScaler's IPv4 address [192.168.200.53]
 2. Netmask [255.255.255.0]
 3. Gateway IPv4 address [102.168.200.1]
 4. Save and quit
Select item (1-4) [4]: 4
```



The image shows the Citrix login page. On the left is the Citrix logo. On the right, there are two input fields: "User Name" with the text "nsroot" and "Password" with six dots. Below the password field is a blue "Login" button. At the bottom left, there is a link that says "To use https, click here".



Subnet IP Address

Specify an IP address for your NetScaler to communicate with the backend servers.

Subnet IP Address

Not configured

Subnet IP Address*

192 . 168 . 200 . 55

Netmask*

255 . 255 . 255 . 0

Done

Do It Later



Host Name, DNS IP Address, and Time Zone

Specify a host name to identify your NetScaler, an IP address for a DNS server to resolve domain names, and the time zone in which your NetScaler is located.

Host Name

Not configured

DNS IP Address

Not configured

Time Zone

CoordinatedUniversalTime

Host Name

NetscalerHostName

DNS IP Address

192 . 168 . 200 . 10 ×

8 . 8 . 8 . 8 × +

Time Zone*

GMT+01:00-CET-Europe/Rome ▾

Done

Do It Later



Licenses

Upload licenses from your local computer or allocate licenses from the Citrix licensing portal.
There are **0** license file(s) present on this NetScaler.



Licenses

If a license is already present on your local computer, email by Citrix) to allocate licenses from the Citrix lice

- Upload license files from a local computer
- Use Serial Number (HE2H91SCZ6)
- Use License Activation Code

Browse

Do It Later

+ System

+ AppExpert

+ Traffic Management


+ Optimization


+ Security

+ NetScaler Gateway

Show Unlicensed Features

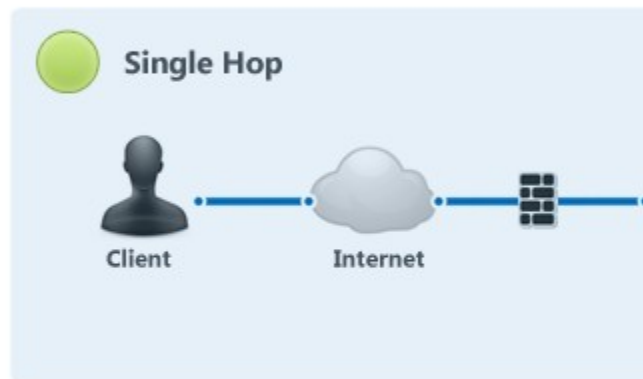
Integrate with Citrix Products

 XenMobile

 XenApp and XenDesktop

XenApp/XenDesktop Setup Wizard

What is your deployment



What is your Citrix Integration Point?

StoreFront

Continue

Cancel

NetScaler Gateway Settings

NetScaler Gateway IP Address*

192 . 168 . 200 . 59

Port*

443 ?

Virtual Server Name*

V-Server

Redirect requests from port 80 to secure port

Continue **Cancel**

Server Certificate

Use existing certificate **Install Certificate**

Certificate Format*

pfx ?

Certificate File*

Browse ▼

Private key is password protected

Private key password

Continue **Do It Later**

Primary authentication method*

Active Directory/LDAP ▼

Use existing server Add new server

IP Address*

192 . 168 . 200 . 10 IPv6

Load Balancing

Port*

389

Time out (seconds)*

3

Base DN*

CN=Users,DC=WBITEST,DC=local

Service account*

administrator@wbitest.local

Group Extraction

Server Logon Name Attribute*

sAMAccountName/userPrincipalNam

Password*

.....

Storefront

StoreFront FQDN*

Site Path*

Single Sign-on Domain*

Store Name*

Secure Ticket Authority Server*

+

Storefront Server*

+

Protocol*

?

[← Back](#)



Configure Basic Features

<input checked="" type="checkbox"/> SSL Offloading	<input checked="" type="checkbox"/> HTTP Compression
<input checked="" type="checkbox"/> Load Balancing	<input type="checkbox"/> Content Switching
<input type="checkbox"/> Content Filter	<input checked="" type="checkbox"/> Integrated Caching
<input type="checkbox"/> Rewrite	<input checked="" type="checkbox"/> NetScaler Gateway
<input checked="" type="checkbox"/> Authentication, Authorization and Auditing	<input checked="" type="checkbox"/> Application Firewall

OK

Add/Remove Authentication Methods

Choose the authentication methods with which users can authenticate to stores on this server.

- User name and password
- Domain pass-through 
- Smart card 
- HTTT Basic
- Pass-through from NetScaler Gateway

OK

Enable Remote Access

Select NetScaler Gateway appliances to provide user access from external networks.

Remote access: None
 No VPN tunnel ⓘ
 Full VPN tunnel ⓘ

NetScaler Gateway appliances:

Add...

Default appliance:

Change General Settings

The display name is visible to users in Citrix Receiver preferences.

Display name:

NetScaler Gateway URL:

Version:

Subnet IP address:
(optional)

Logon type:

Smart card fallback:

Callback URL: ⓘ /CitrixAuthService/AuthService.asmx
(optional)

Secure Ticket Authority (STA)

Issues session tickets in response to application connection requests.

Secure Ticket Authority URLs:

https://vmxd7-xddc-01.xdseven.local/scripts/ctxsta.dll

▲
▼

Enable session reliability

Request tickets from two STAs, where available

Manage Beacons

Beacon points are used to determine whether users are connecting from internal or external networks. Two external addresses that can be resolved from the Internet are required.

Internal beacon: Use the service URL

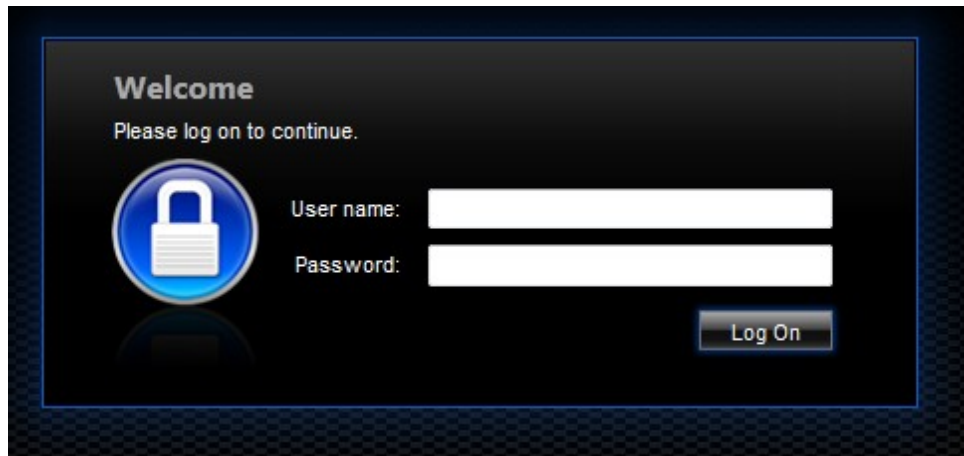
Specify beacon address:

https://mycompany.net

External beacons:

https://nsgw01.xdseven.local

http://www.citrix.com



New Resource Record x

Service Location (SRV)

Domain:	<input type="text" value="XDSEVEN.local"/>
Service:	<input type="text" value="_citrixreceiver"/>
Protocol:	<input type="text" value="_tcp"/>
Priority:	<input type="text" value="0"/>
Weight:	<input type="text" value="0"/>
Port number:	<input type="text" value="443"/>

Host offering this service:

Configure NetScaler Gateway Session Profile

Unchecked Override Global check box indicates that the value is inherited from Global NetScaler Gateway Parameters.

Network Configuration	Client Experience	Security	Published Applications
-----------------------	-------------------	----------	------------------------

Override Global

Citrix Receiver Home Page

Account Services Address

 ?

Configure NetScaler Gateway Session Profile

Split Tunnel*

Session Time-out (mins)

Client Idle Time-out (mins)

 ?

Clientless Access*

Expression*

Operators ▼	Saved Policy Expressions ▼	Frequently Used Expressions ▼
ns true		
REQ.HTTP.HEADER User-Agent CONTAINS CitrixReceiver		
REQ.HTTP.HEADER User-Agent CitrixGateway EXISTS		
OK	Close	

Installing and configuring Citrix XenMobile 10

```
Welcome to the XenMobile First Time Use wizard. This wizard
will guide you through the initial configuration of XenMobile. Accept options offered
by default or type your own response and then press Enter/Return.

Command prompt window administrator account:
This is the user name and password you use when logging on to the
command prompt.
Username: admin
New password:
Re-enter new password:

Network settings:
IP address []: 192.168.200.89
Netmask []: 255.255.255.0
Default gateway []: 192.168.200.1
Primary DNS server []: 192.168.200.10
Secondary DNS server (optional) []: 192.168.200.6

Commit settings (y/n) [y]:
```

```
Hostname []: xenmobile.whitest.local

Commit settings (y/n) [y]:
Applying fqdn settings...

Communication ports:
HTTP [80]:
HTTPS with certificate authentication [443]:
HTTPS with no certificate authentication [8443]:
HTTPS for management [4443]:

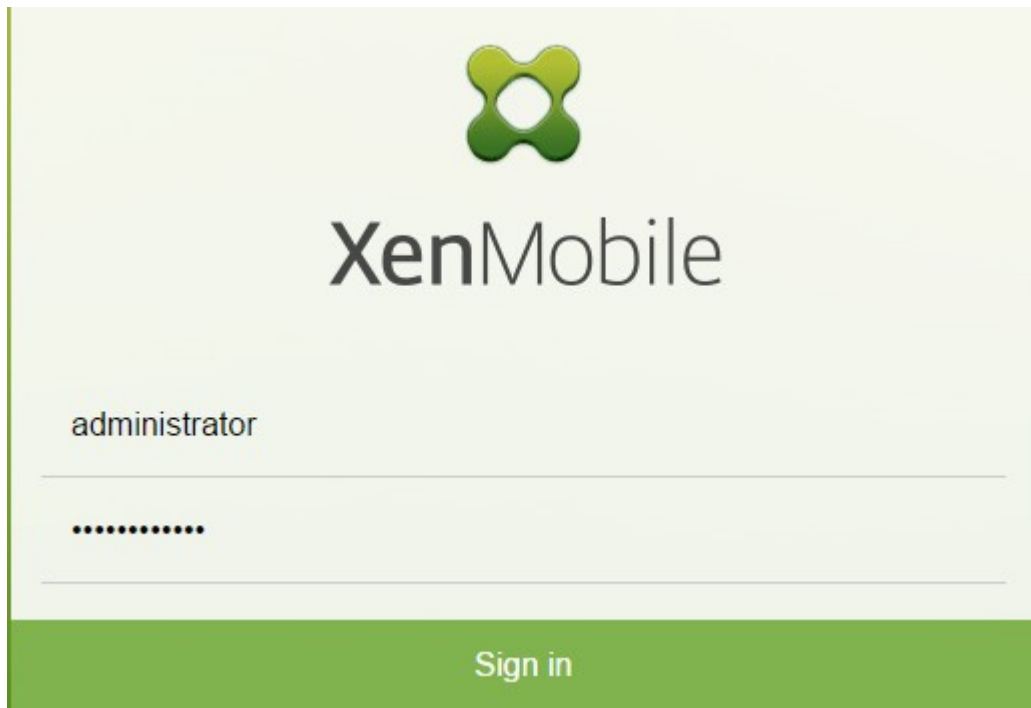
Commit settings (y/n) [y]:
```

```
Do you want to use the same password for all the certificates of the PKI [y]:
New password:
Re-enter new password:

Commit settings (y/n) [y]:
Generating SAML signing certificate...
Generating server and client certificates...

XenMobile console administrator account:
This is the user name and password you use when logging on to the XenMobile console through a web browser.
Username [administrator]:
Password:
Re-enter new password:

Commit settings (y/n) [y]:
```



The image shows the XenMobile login interface. At the top center is the XenMobile logo, a green four-lobed shape. Below the logo is the text "XenMobile" in a large, dark font. Underneath, there are two input fields: the first contains the text "administrator", and the second contains a series of dots representing a masked password. At the bottom of the screen is a green button with the text "Sign in" in white.

Initial Configuration

- 1 Licenses
- 2 Certificates
 - SSL Certificate (optional)
- 3 NetScaler Gateway (optional)
- 4 LDAP Configuration (optional)
- 5 Notification Server (optional)
- 6 Summary

Default license Evaluation license

Trial period 30 day(s) left

Configure license

License type Local license

 Add

Product name	Active	Total
--------------	--------	-------

No results found.

Expiration notification

Notify every* day(s)

1 Licenses ✓

2 Certificates

SSL Certificate (optional)

3 NetScaler Gateway (optional)

4 LDAP Configuration (optional)

5 Notification Server (optional)

your HTTPS connections.

While SSL Certificate is an optional setting, once data is entered into the

 Import

Name	Description
XMS.example.com	Self Signed/Generated
xenmobile.wbitest.local	Self Signed/Generated
cacerts.pem	Self Signed/Generated

NetScaler Gateway

Enables secure mobile user access.

While NetScaler Gateway is an optional setting, once data is entered into the form, the required fields n page.

Name*	<input type="text" value="Appliance name"/>
Alias	<input type="text"/>
External URL*	<input type="text" value="Publicly accessible URL"/>
Logon Type	Domain only ▼
Password Required	Domain only Security token only Domain and security token Certificate Certificate and domain Certificate and security token
Set as Default	
Callback URL*	Virtual IP*









LDAP Configuration

Provides connection to one or more LDAP-compliant directories, such as Active Directory, to import groups, user accounts, While LDAP Configuration is an optional setting, once data is entered into the form, the required fields must be cleared or cc the page.

Directory type*	Microsoft Active Directory	
Primary server*	192.168.200.10	
Secondary server	192.168.200.6	
Port*	389	
Domain name*	WBITEST.local	
User base DN*	dc=WBITEST,dc=local	?
Group base DN*	dc=WBITEST,dc=local	?

XenMobile Dashboard Manage Configure

NOTIFICATIONS

 Compliance	 0	 0	 0	 Decommission	 0	 0	 0
	ActiveSync blocked	Non-compliant	Inactive		Last 24 hours (wipes)	Last 24 hours (selective wipes)	Pending (selective wipes)

PLATFORMS CARRIERS

XenMobile Dashboard **Manage** Configure

Devices | Enrollment

Details

Add Device

Select Platform

- iOS
- Android
- Symbian
- Windows Phone 8.1
- Windows 8.1 Tablet
- BlackBerry

Serial Number*

IMEI/MEID

XenMobile

Device Policies |

Add a New Policy

Type or select a policy from the list

Exchange	Passcode	VPN
Scheduling	Restrictions	WiFi

▼ More

Network access	Apps	Security
APN	App Access	App Lock
Cellular	App Attributes	App Restrictions
Personal Hotspot	App Configuration	Contacts (CardDAV)

Device Policies Show

Add

Policy name

No results found.

Public App Store

1 App Information

2 Platform

iPhone

iPad

Google Play

Windows Tablet

Windows Phone

3 Approvals (optional)

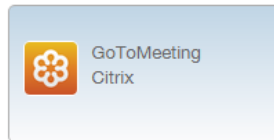
4 Delivery Group Assignments (optional)

GotoMeeting



Search

Search results for GotoMeeting in iPhone apps



Didn't find the app you were looking for?

App Details

Name* GoToMeeting

Description* Download the free GoToMeeting ses

Version 6.3.0.727

Image



Actions

- 1 Action Info
- 2 Details
- 3 Assignment (optional)
- 4 Summary

Action details

Choose a trigger event and the associated action for that event.

Trigger*

Device property

Select a device property

Action*

Select an action

Selectively wipe the device

Completely wipe the device

Revoke the device

Summary

If

Mark the device as out of compliance

Send notification

4 Summary

Resource

Apps 0

Policies 0

Actions 1

Action

NetScaler for XenMobile

Select the settings you want to configure as you set up NetScaler for your XenMobile deployment.

Access through NetScaler Gateway

Set up Micro VPN to which Worx Mobile Apps connect.

Load Balance XenMobile Servers

Use NetScaler to load balance XenMobile Servers.

Load Balance Microsoft Exchange Servers

Use NetScaler and XenMobile NetScaler Connector to load balance Exchange Servers with email filtering.

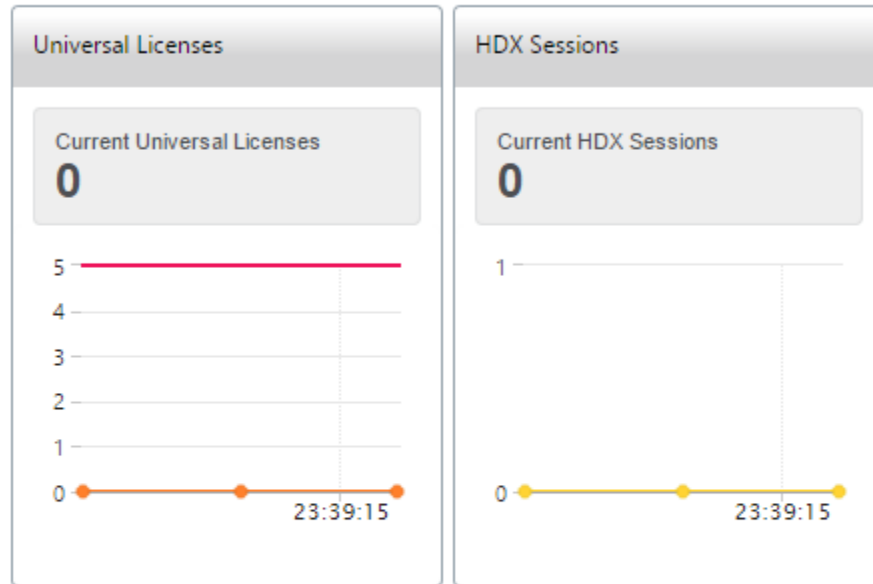
Load Balance ShareFile StorageZones Controllers

Use NetScaler to load balance ShareFile StorageZones Controllers based on the type of content requested.

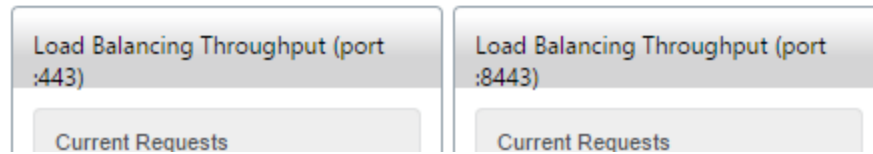
Continue

Cancel

NetScaler Gateway

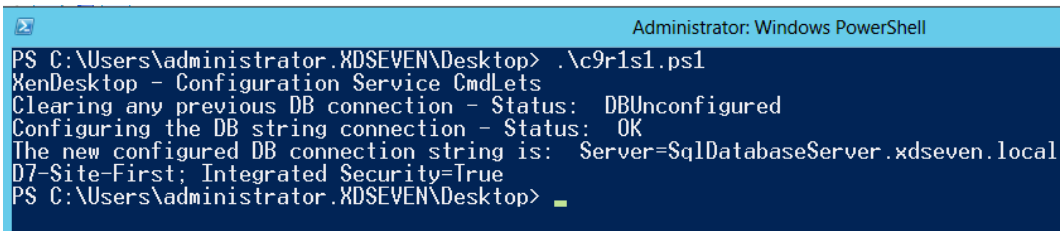


XenMobile Server Load Balancing



Chapter 9: Working with XenDesktop PowerShell

Retrieving system information – configuration service cmdlets



```
Administrator: Windows PowerShell
PS C:\Users\administrator.XDSEVEN\Desktop> .\c9r1s1.ps1
XenDesktop - Configuration Service CmdLets
Clearing any previous DB connection - Status: DBUnconfigured
Configuring the DB string connection - Status: OK
The new configured DB connection string is: Server=SqlDatabaseServer.xdseven.local;
D7-Site-First; Integrated Security=True
PS C:\Users\administrator.XDSEVEN\Desktop> █
```


Managing Active Directory accounts – ADIdentity cmdlets

```
Administrator: Windows PowerShell
PS C:\Users\administrator.XDSEVEN\Desktop> .\c9r2s1.ps1
XenDesktop - Creating an Identity Pool
Pool creation activities - Status:

AvailableAccounts : 0
Domain            : XDSEVEN.local
ErrorAccounts     : 0
IdentityPoolName  : Test-Pool-01
IdentityPoolUid   : a942b55f-cfbc-47b6-a0cd-6f17a98e45ed
InUseAccounts     : 0
Lock              : False
MetadataMap       :
NamingScheme      : Desk-T##
NamingSchemeType  : Numeric
OU                :
StartCount        : 1
TaintedAccounts  : 0
Scopes            : {}

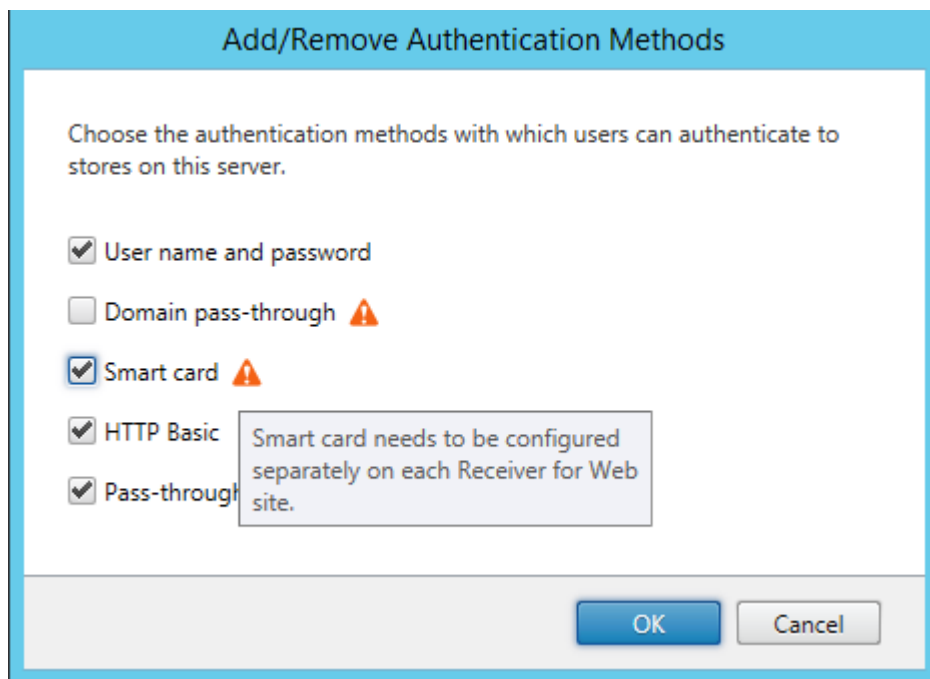
Identity Pool correctly created.
SuccessfulAccounts : {XDSEVEN\Desk-T10$, XDSEVEN\Desk-T11$, XDSEVEN\Desk-T12$}
SuccessfulAccountsCount : 3
FailedAccountsCount   : 0
FailedAccounts        : {}
```

Managing the Citrix Desktop Controller and its resources – Broker and AppV cmdlets

```
Administrator: Windows PowerShell
ExtensionData      : System.Runtime.Serialization.ExtensionDataObject
AllocationType     : Random
AssignedCount      : 0
AvailableAssignedCount : 0
AvailableCount     : 0
AvailableUnassignedCount : 0
Description        : Catalog-Book-Number-01
HypervisorConnectionUid :
IsRemotePC        : False
MachinesArePhysical : False
MetadataMap        : {}
MinimumFunctionalLevel : L7
Name               : SRV-APP-00
PersistUserChanges : OnLocal
ProvisioningSchemeId :
ProvisioningType   : Manual
PvsAddress         :
```

Chapter 10: Configuring the XenDesktop Advanced Logon

Implementing the two-factor hardware authentication for XenDesktop 7



You can select snap-ins for this console from those available on your computer and configure extensible snap-ins, you can configure which extensions are enabled.

Available snap-ins:

Snap-in	Vendor
ActiveX Control	Microsoft Cor...
Authorization Manager	Microsoft Cor...
Certificate Templates	Microsoft Cor...
Certificates	Microsoft Cor...
Certification Authority	Microsoft Cor...
Component Services	Microsoft Cor...
Computer Managem...	Microsoft Cor...
Device Manager	Microsoft Cor...
Disk Management	Microsoft and...
Enterprise PKI	Microsoft Cor...
Event Viewer	Microsoft Cor...
Folder	Microsoft Cor...
Group Policy Object ...	Microsoft Cor...
Internet Informatio...	Microsoft Cor...

Add >

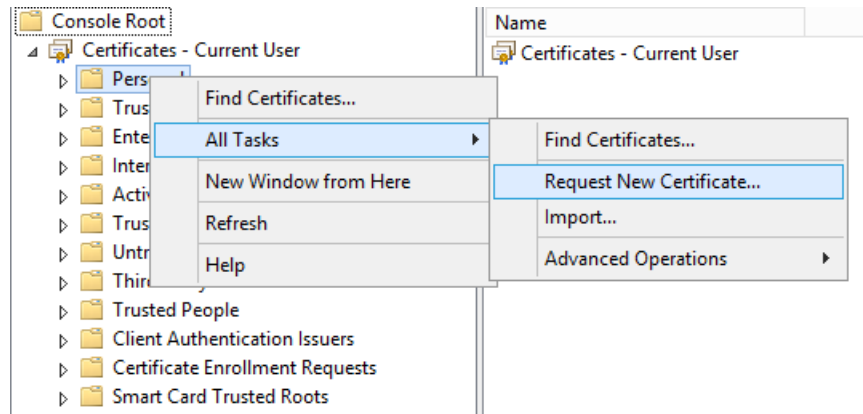
Selected snap-ins:

Console Root

Certificates snap-in x

This snap-in will always manage certificates for:

- My user account
- Service account
- Computer account



Certificate Enrollment

Select Certificate Enrollment Policy

Certificate enrollment policy enables enrollment for certificates based on predefined certificate templates. Certificate enrollment policy may already be configured for you.

Configured by your administrator

Active Directory Enrollment Policy
 Enrollment Policy ID: {C8C0A9C8-1E89-434C-8656-8E79B0045864} ^

[Properties](#)

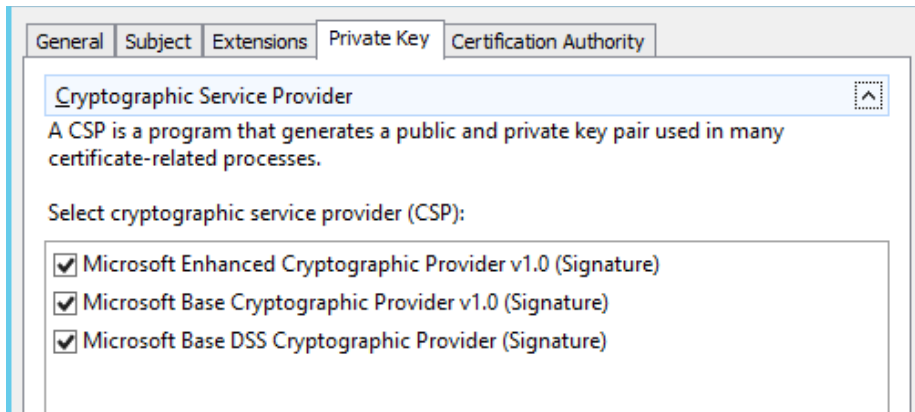
Configured by you [Add New](#)

Enrollment Agent STATUS: Available Details

The following options describe the uses and validity period that apply to this type of certificate:

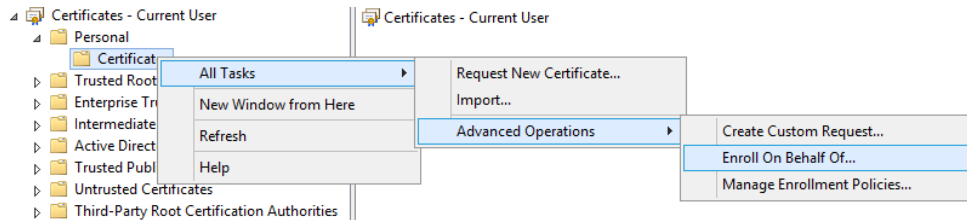
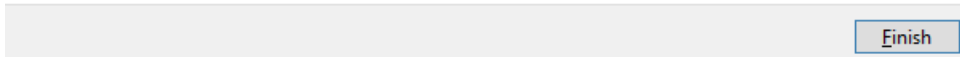
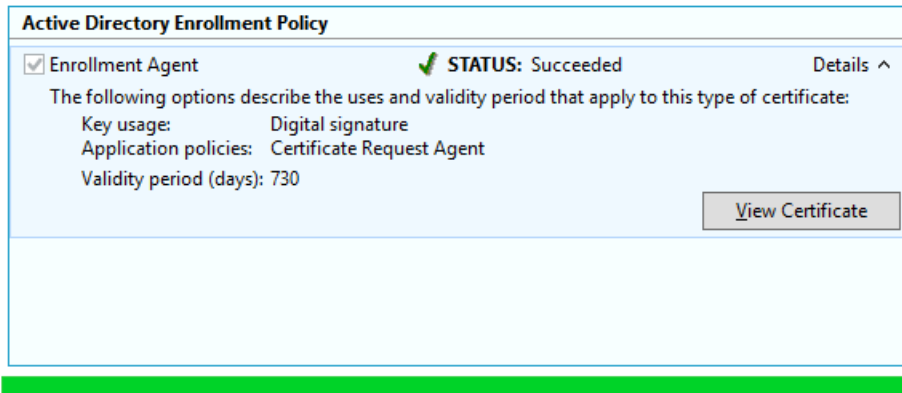
Key usage: Digital signature
 Application policies: Certificate Request Agent
 Validity period (days): 730

[Properties](#)

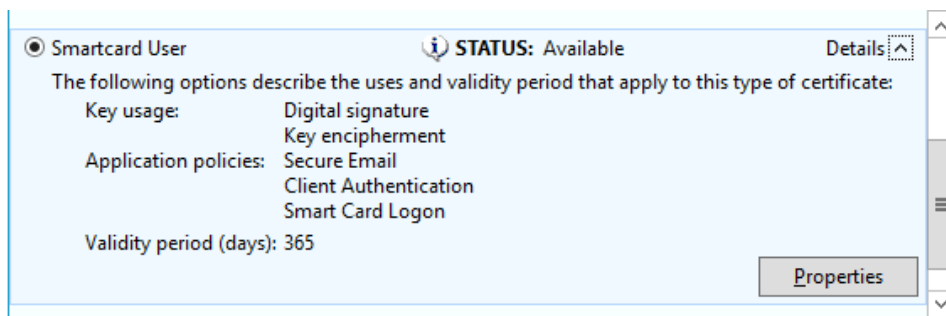
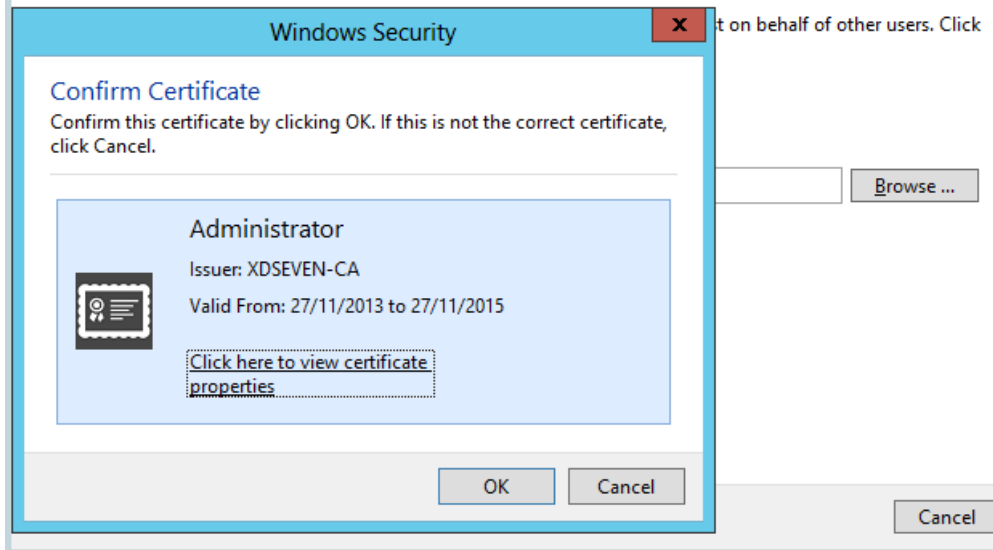


Certificate Installation Results

The following certificates have been enrolled and installed on this computer.



Select Enrollment Agent Certificate



Cryptographic Service Provider

A CSP is a program that generates a public and private key pair used in many certificate-related processes.

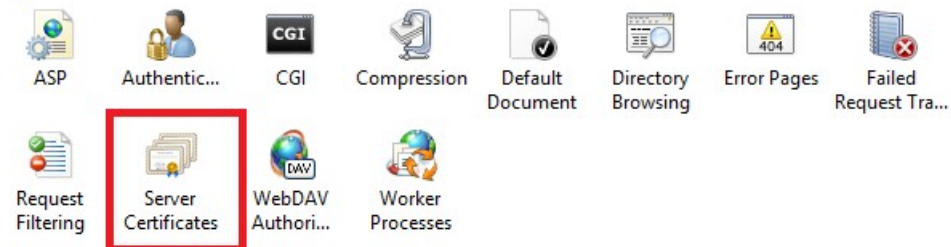
Select cryptographic service provider (CSP):

- Microsoft Strong Cryptographic Provider (Encryption)
- Microsoft Base Cryptographic Provider v1.0 (Encryption)
- Microsoft Base DSS and Diffie-Hellman Cryptographic Provider (Encryption)
- Microsoft Base Smart Card Crypto Provider (Encryption)


FTP



IIS




Create Certificate

 **Distinguished Name Properties**

Specify the required information for the certificate. State/province and City/locality must be specified as official names and they cannot contain abbreviations.

Common name:	<input type="text" value="vmxd7-sf-01.xdseven.local"/>
Organization:	<input type="text" value="Packt Publishing"/>
Organizational unit:	<input type="text" value="Enterprise"/>
City/locality:	<input type="text" value="Birmingham"/>
State/province:	<input type="text" value="England"/>
Country/region:	<input type="text" value="UK"/>

Create Certificate ? X

 **Online Certification Authority**

Specify the certification authority within your domain that will sign the certificate. A friendly name is required and should be easy to remember.

Specify Online Certification Authority:

<input type="text" value="XDSEVEN-CA\vmxd7-dc-01.XDSEVEN.local"/>	<input type="button" value="Select..."/>
---	--

Example: CertificateAuthorityName\ServerName

Friendly name:

<input type="text" value="XDSEVEN-CA"/>

Authentication

Group by: No Grouping

Name	Status	Response Type
Active Directory Client Certificate Authentication	Disabled	HTTP 401 Challenge
Anonymous Authentication	Enabled	
ASP.NET Impersonation	Disabled	
Basic Authentication	Disabled	HTTP 401 Challenge
Digest Authentication	Disabled	HTTP 401 Challenge
Forms Authentication	Disabled	HTTP 302 Login/Redirect
Windows Authentication	Disabled	HTTP 401 Challenge

Context menu for Active Directory Client Certificate Authentication:

- Enable
- Help
- Online Help

Site Bindings

Type	Host Name	Port	IP Address	Binding Informa...
http		80	*	
https	vmxd7-sf-01.xds...	443	*	

Buttons: Add..., Edit..., Remove, Browse, Close

Edit Site Binding

Type: https | IP address: All Unassigned | Port: 443







Host name: vmxd7-sf-01.xdseven.local

Require Server Name Indication

SSL certificate: XDSEVEN-CA | Select... | View...

Buttons: OK, Cancel

 Providers  Session State  SMTP E-mail

 Logging  MIME Types  Modules  Output Caching  Request Filtering  **SSL Settings**

SSL Settings


This page lets you modify the SSL settings for the content of a website or application.


Require SSL

Client certificates:

- Ignore
- Accept
- Require

Actions

 Apply
 Cancel

 Help
[Online Help](#)

Smart card authentication

Not Configured Comment:

Enabled

Disabled

Supported on:

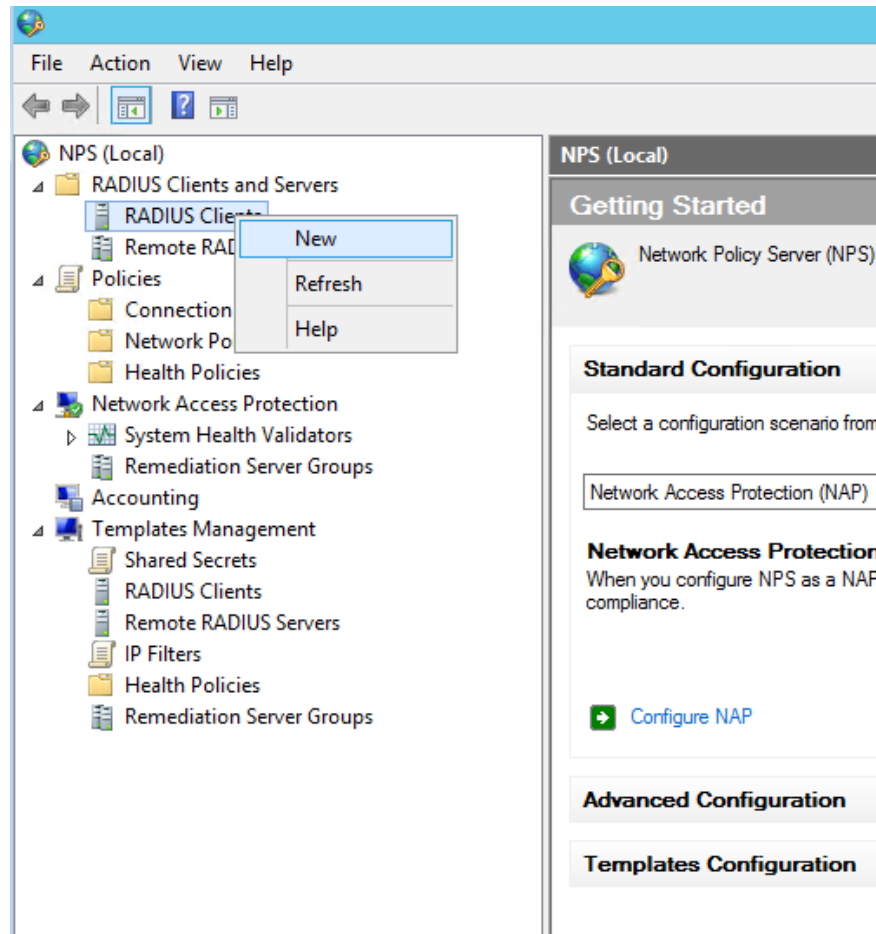
Options:

Allow smart card authentication

Use pass-through authentication for PIN

```
[Application]
TransportDriver=TCP/IP
DoNotUseDefaultCSL=On
BrowserProtocol=HTTPonTCP
LocHttpBrowserAddress=!
WinStationDriver=ICA 3.0
ProxyTimeout=30000
AutologonAllowed=ON
DisableCtrlAltDel=Off
```

Implementing strong authentication for XenDesktop 7 – Radius platform



X

New RADIUS Client

SettingsAdvanced

Enable this RADIUS client

Select an existing template:

Name and Address

Friendly name:

NetscalerGW

Address (IP or DNS):

192.168.110.80

Verify...

Shared Secret

Select an existing Shared Secrets template:

None

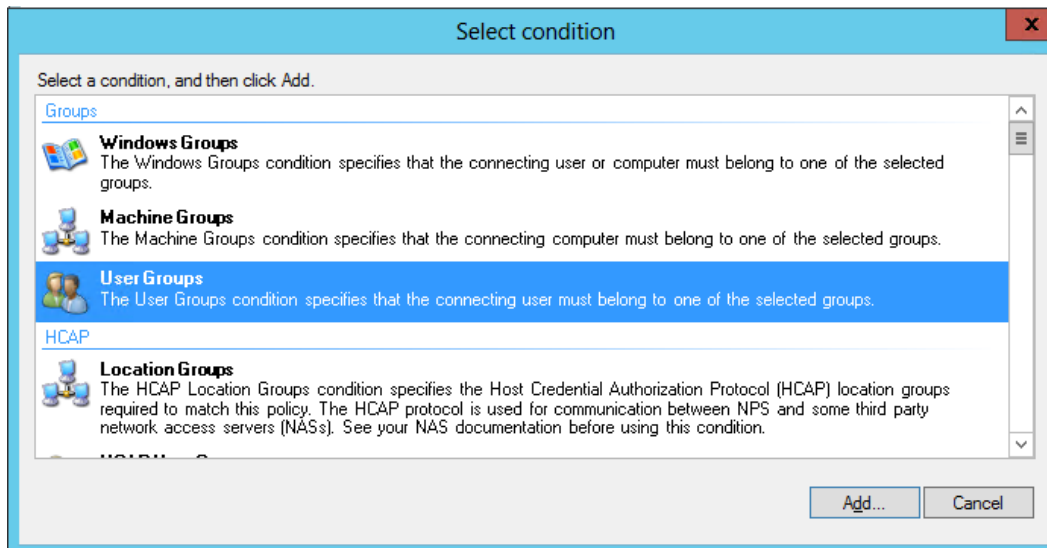
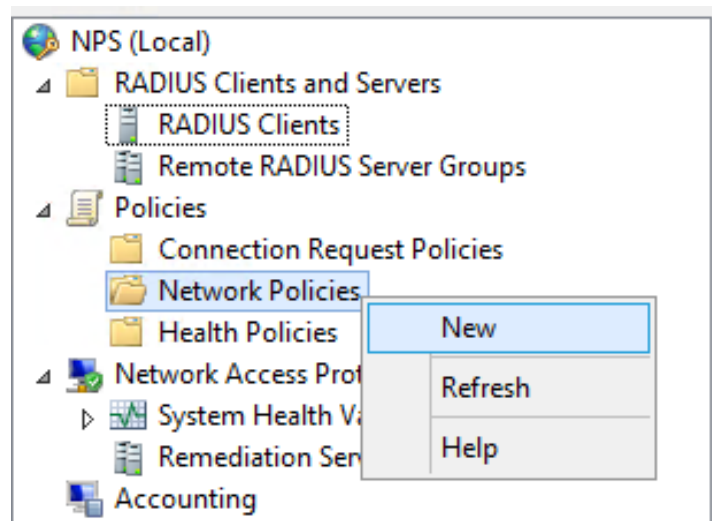
To manually type a shared secret, click Manual. To automatically generate a shared secret, click Generate. You must configure the RADIUS client with the same shared secret entered here. Shared secrets are case-sensitive.

Manual Generate

Shared secret:

rGCKyQz1Nj0&aVztQMfXhrK!UK

Generate Clear



New Network Policy



Specify Access Permission

Configure whether you want to grant network access or deny network access if the connection request matches this policy.

- Access granted**
Grant access if client connection attempts match the conditions of this policy.
- Access denied**
Deny access if client connection attempts match the conditions of this policy.
- Access is determined by User Dial-in properties (which override NPS policy)**
Grant or deny access according to user dial-in properties if client connection attempts match the conditions of this policy.

- Microsoft Encrypted Authentication version 2 (MS-CHAP-v2)**
 - User can change password after it has expired
- Microsoft Encrypted Authentication (MS-CHAP)**
 - User can change password after it has expired
- Encrypted authentication (CHAP)**
- Unencrypted authentication (PAP, SPAP)**
- Allow clients to connect without negotiating an authentication method.**
- Perform machine health check only**

New Network Policy



Configure Settings

NPS applies settings to the connection request if all of the network policy conditions are matched.

Configure the settings for this network policy.
If conditions and constraints match the connection request and the policy grants access, settings are applied.

Settings:

RADIUS Attributes

Standard

Vendor Specific

Network Access Protection

NAP Enforcement

Extended State

Routing and Remote Access

Multilink and Bandwidth Allocation Protocol (BAP)

IP Filters

Encryption

IP Settings

To send additional attributes to RADIUS clients, select a RADIUS attribute, then click Edit. If you do not configure an attribute, it is not sent to your RADIUS client documentation for required attributes.

Attributes:

Name	Value
Framed-Protocol	PPP
Service-Type	Framed

Add...

Edit...

Remove

Vendor:
 Custom

Attributes:

Name	Vendor
Allowed-Certificate-OID	RADIUS Standard
Generate-Class-Attribute	RADIUS Standard
Generate-Session-Timeout	RADIUS Standard
Tunnel-Tag	RADIUS Standard
Vendor-Specific	RADIUS Standard

Description:
 Specifies the support of proprietary NAS features.

Vendor-Specific Attribute Information ✕

Attribute name:
 Vendor Specific

Specify network access server vendor.

Select from list:




Enter Vendor Code:

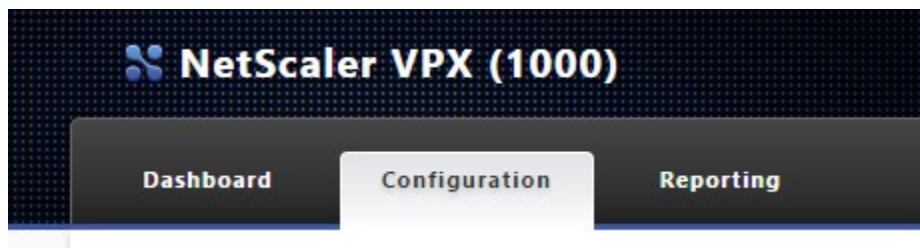
Specify whether the attribute conforms to the RADIUS RFC specification for vendor specific attributes.

Yes. It conforms
 No. It does not conform

Network Policies

Network policies allow you to designate who is authorized to connect to the network and th

Policy Name	Status	Processing Order
 NetscalerGW-Policy-01	Enabled	1
 Connections to Microsoft Routing and Remote Access server	Enabled	999998
 Connections to other access servers	Enabled	999999



- NetScaler Gateway
 - Global Settings
 - Virtual Servers
 - + User Administration
 - KCD Accounts
 - Policies
 - Preauthentication
 - Authorization
 - Session
 - Traffic
 - TCP Compression
 - Clientless Access
 - AppFlow
 - **Authentication**
 - Local
 - RADIUS
 - Web
 - LDAP

NetScaler > NetScaler Gateway > Policies > Authentication > **RADIUS** >


Policies Servers

Add Edit Delete Show Bindings Primary Global Binding

Name	Expression	Do Custom Operation on Authentication
No items		

Create Authentication RADIUS Policy

Name*
 ?

Server*
 ▼ + 

Expression*
 ▼ ▼

Create Authentication RADIUS Server

Create Authentication RADIUS Server

Name*

Server Name Server IP

IP Address*

 IPv6

Port

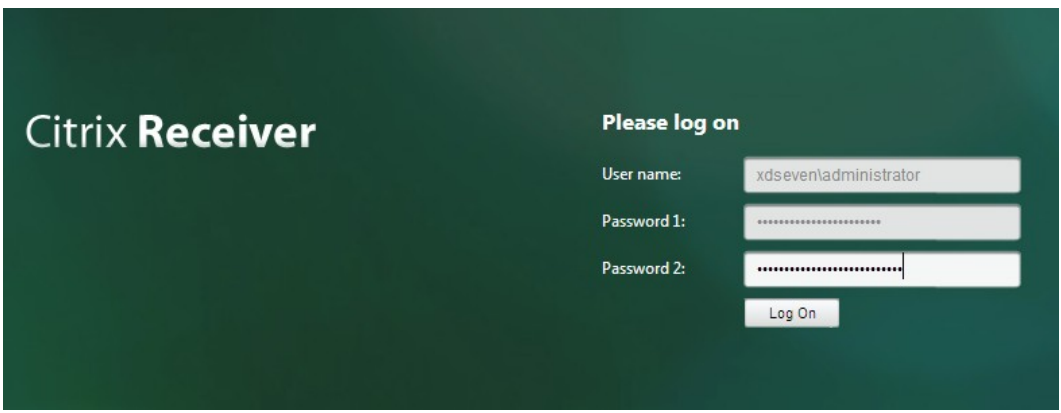
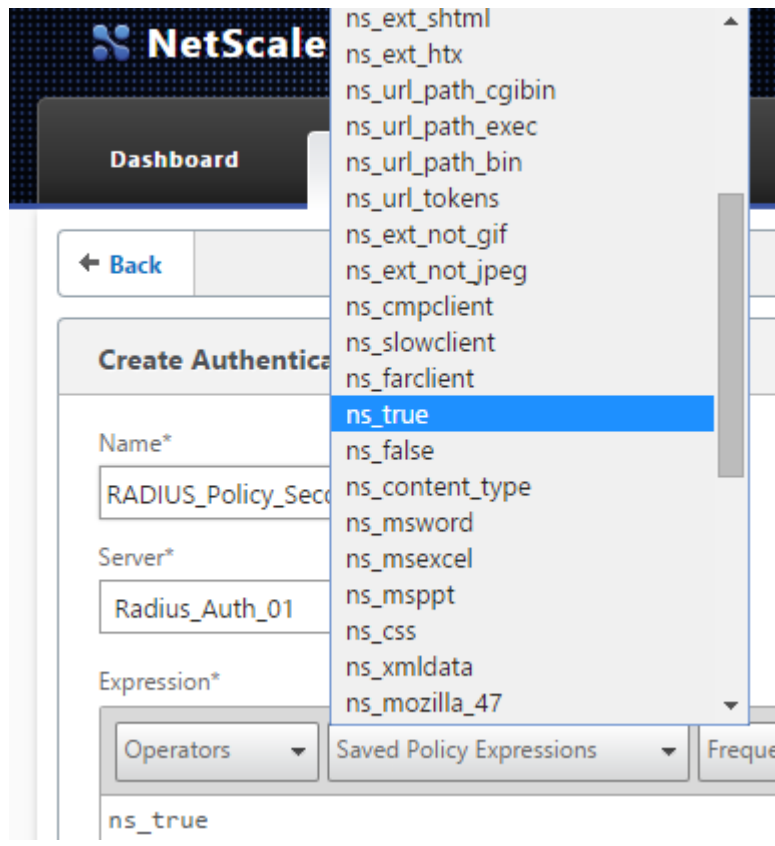
Time-out (seconds)

Secret Key*

Confirm Secret Key*

Send Calling Station ID

► Details



Create Authentication RADIUS Server

Create Authentication RADIUS Server

Confirm Secret Key*

 ?

Send Calling Station ID

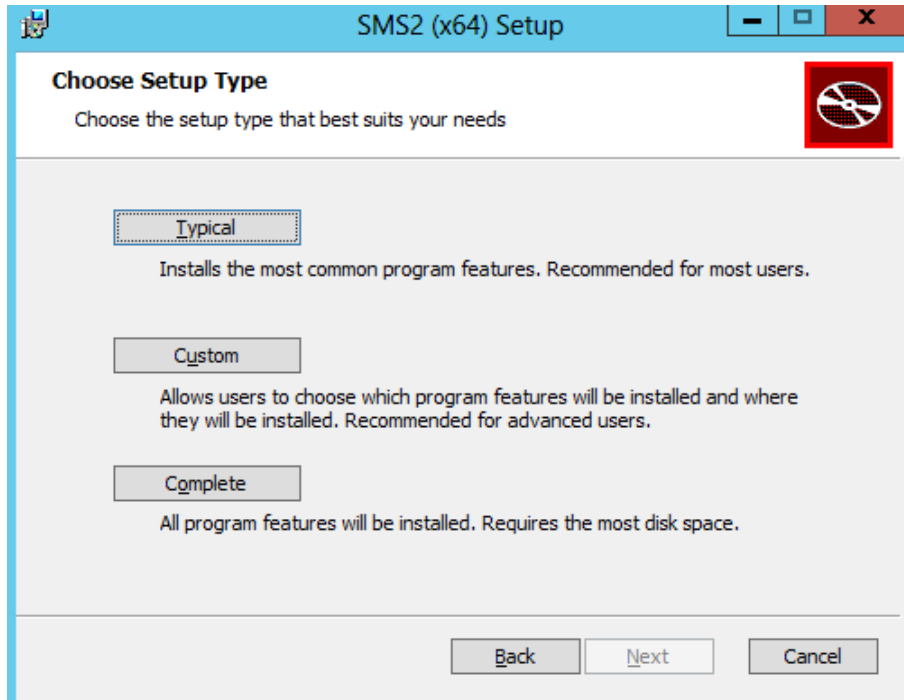
▼ Details

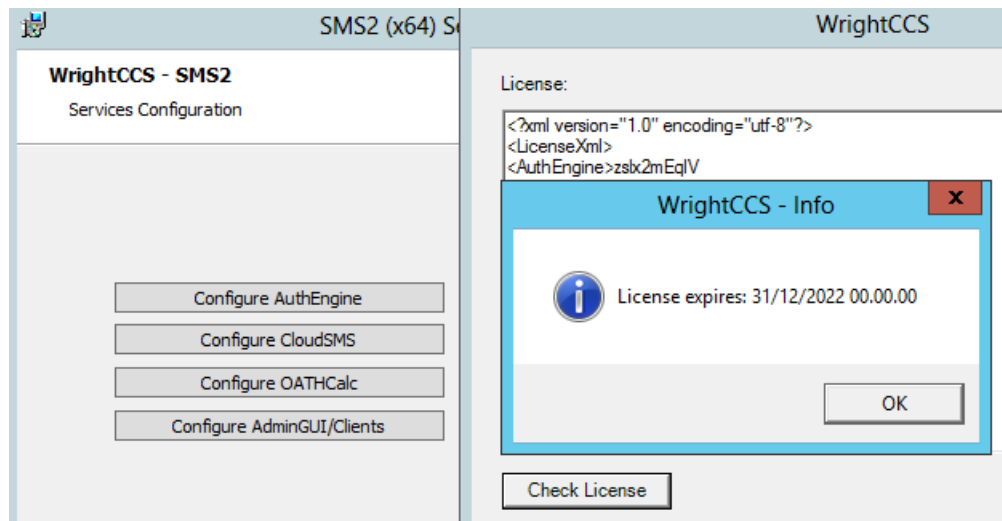
NAS ID

Enable NAS IP address extraction

Group Vendor Identifier

Implementing the two-factor software authentication for XenDesktop 7





Network Bindings

AuthEngine Address

AuthEngine Port

Active Directory

AD/LDAP Server

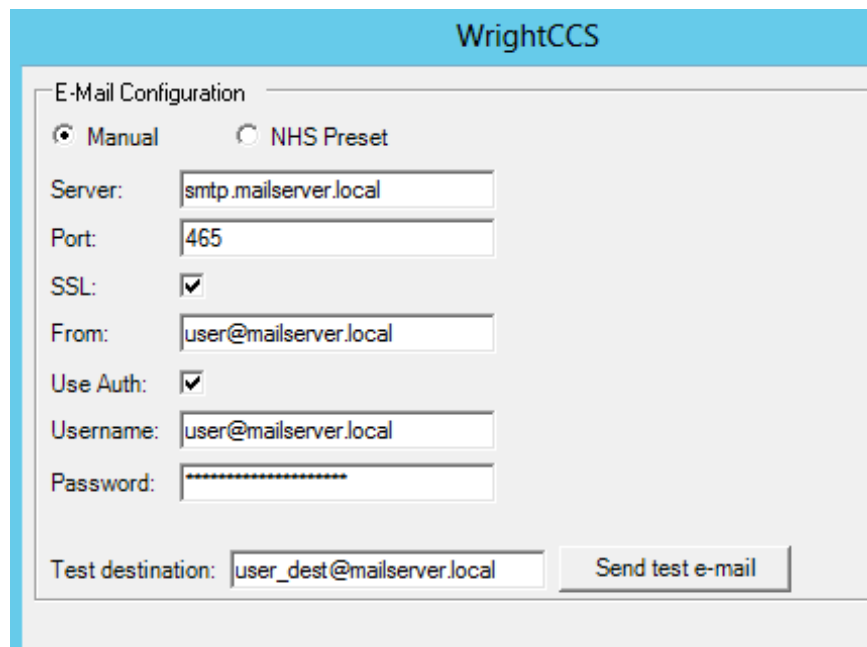
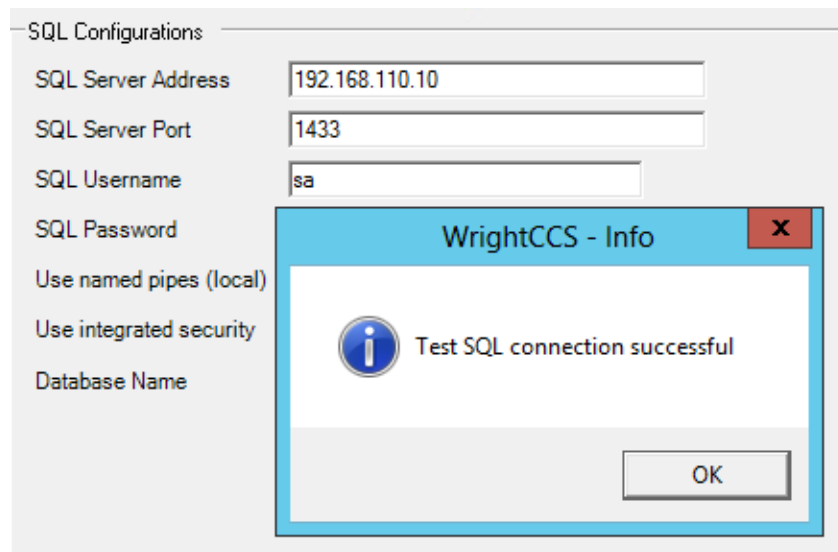
AD/LDAP Query Account

AD/LDAP Password

AD/LDAP BaseDN

AD/LDAP Container (optional)

AD/LDAP Filter (optional)



WrightCCS

CloudSMS Module Parameters

Samples: Regexp Load

Samples defaults should work without modification

Module: Regexp

Parameters

Name	Value	Encrypt	Output
Uri	http://www.txtlocal.c...	<input type="checkbox"/>	<input type="checkbox"/>
Regex	CreditsRemaining=([0-...	<input type="checkbox"/>	<input type="checkbox"/>
CreditsRemaining	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
selectednums	{destination}	<input type="checkbox"/>	<input type="checkbox"/>
message	{message}	<input type="checkbox"/>	<input type="checkbox"/>
uname	textlocal@username.c...	<input type="checkbox"/>	<input type="checkbox"/>
pword	textlocalpassword	<input checked="" type="checkbox"/>	<input type="checkbox"/>

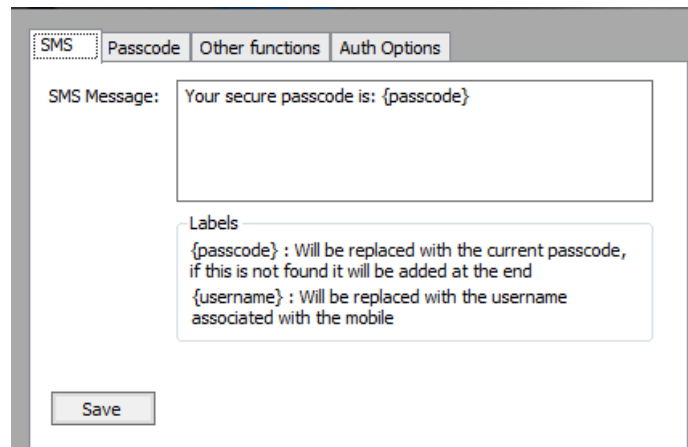
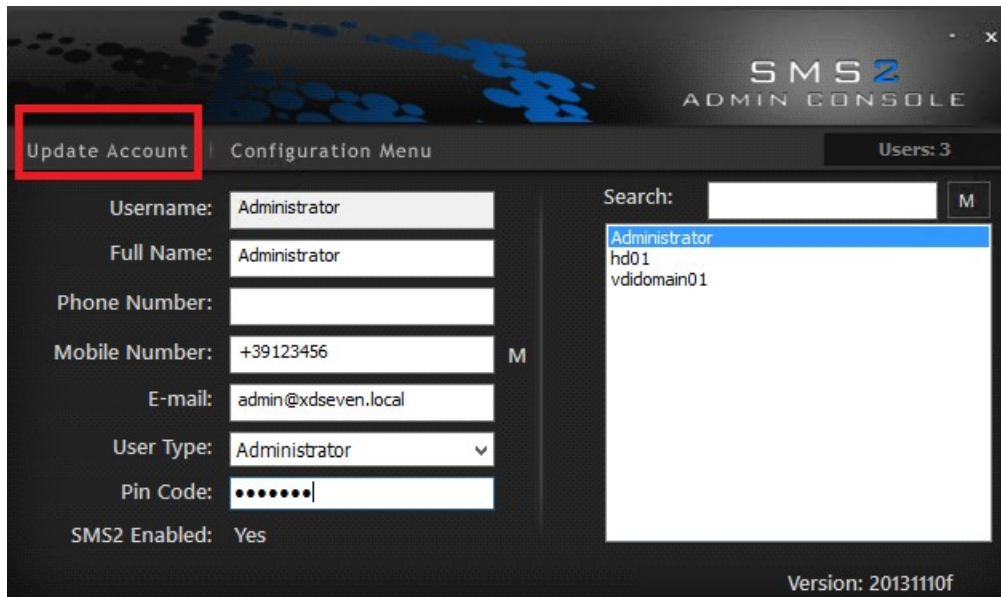
Cancel Back Finish

WrightCCS

DATHCalc Configuration

TOTP Time Window (secs.) 10



HOTP Counter Window (tokens) 15



+ Configure New

Configured Virtual Servers for XenDesktop/XenApp

testvo.vgen.io

V-Server  

Edit

Citrix Receiver

Please log on

User name:

Password 1:

Password 2:

