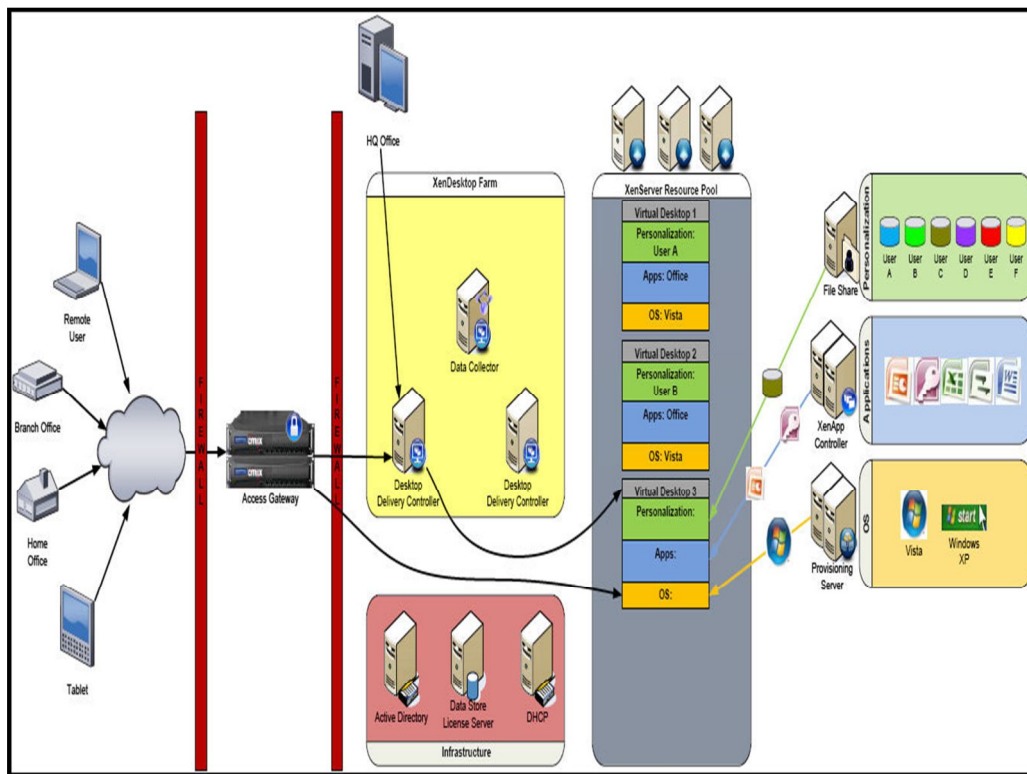




Citrix XenDesktop Pilot Implementation Guide

## Step Two – Application Delivery





The architecture can be broken down into six core components:

1. **Virtualization Infrastructure:** The virtualization infrastructure allows for the dividing of a single physical server into multiple virtual servers all sharing resources. The virtualization infrastructure for this pilot architecture is based on XenServer as it is included as part of the XenDesktop overall solution. The virtualization infrastructure could also leverage Microsoft Hyper-V or VMware ESX.

2. **Virtual Desktop Delivery Controller:** The virtual desktop delivery controller is responsible for the registration of new virtual desktops and directing requests for virtual desktops to available systems. Users interact indirectly with the controller via the integrated Web Interface component. Through a web-based site, or through a locally installed receiver, users will be delivered their virtual desktop.

3. **Virtual Desktop Provisioning:** The provisioning server aspect of the XenDesktop solution delivers an operating system image to the virtual desktop instance on the virtualization infrastructure. A base operating system image is created that contains all operating system-level configurations as dictated by the organization's policies. The base image, however, does not contain applications. As each virtual desktop boots, the operating system is streamed over the network to the virtual desktop. The power of this solution is identified when updates are

3

required as only the base image requires updating and all virtual desktops will utilize the latest image upon next reboot. By stripping out the applications, a single

## XenDesktop Pilot Implementation Guide

Virtual Desktop Delivery

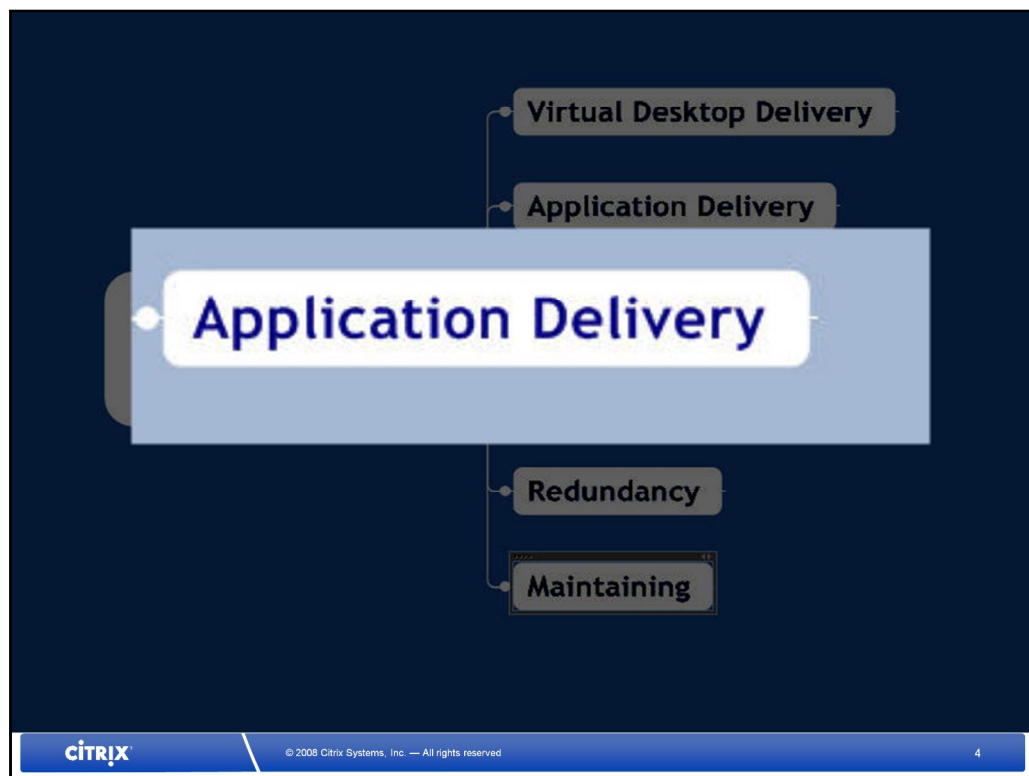
Application Delivery

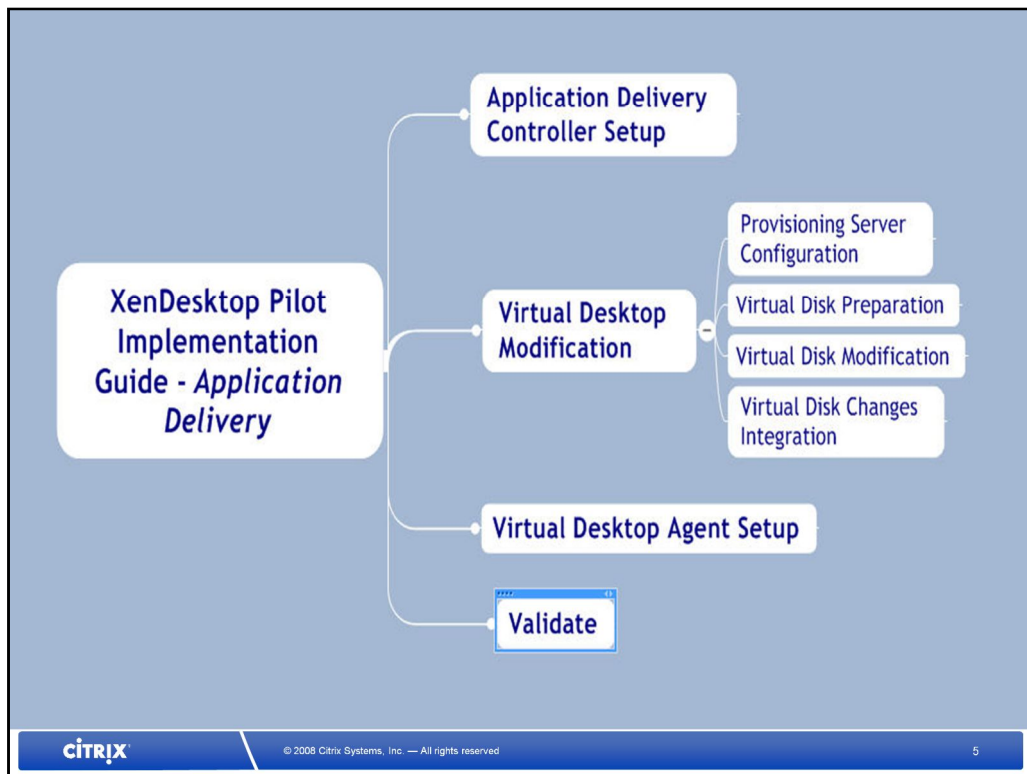
Personalization

Security

Redundancy

Maintaining







## Application Delivery Controller Setup

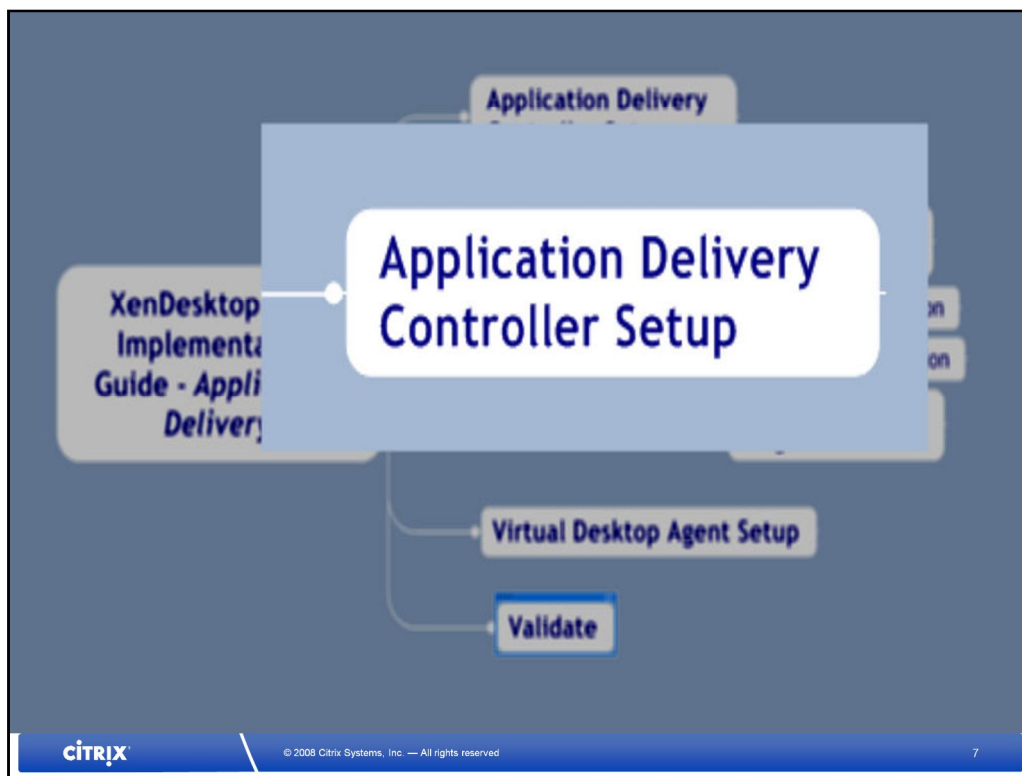
### Virtual Desktop Creation

At the core, the XenDesktop solution is based on a core operating system image to be delivered to thousands of endpoints. To simplify and reduce the number unique virtual desktops, the base image should only contain the minimal set of options. The following sub-sections will show how to build either a Windows XP or Windows Vista base image for a XenDesktop Pilot. This step is broken down into the following components:

- ❑ XenServer Virtual Machine Creation

- ❑ Operating System Installation

- ❑ Citrix Virtual Desktop Agent Setup



## XenApp for Virtual Desktops

Separating the applications from the desktop helps reduce the overall number of virtual desktop images that must be managed. The next step in the building of the Pilot environment is to integrate application delivery into the desktop delivery infrastructure. This is accomplished with the following process:

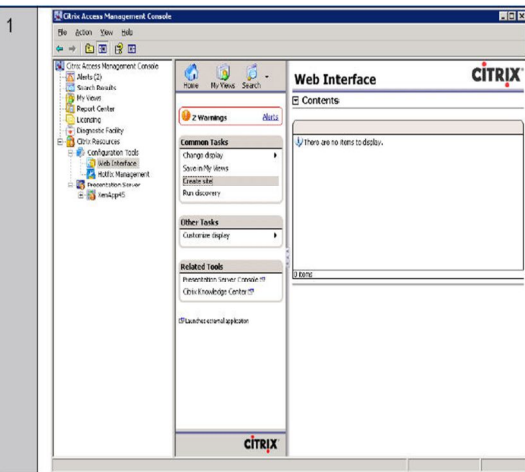

❑ Application Delivery Controller Setup

❑ Virtual Desktop Modification


***Assumption: The XenApp environment has already been setup and configured with hosted and streamed applications to users and groups. This section is only showing how to properly deliver applications to a virtual desktop.***


***This section is only  
showing how to properly  
deliver applications to a  
virtual desktop.***

# Application Delivery Controller Setup

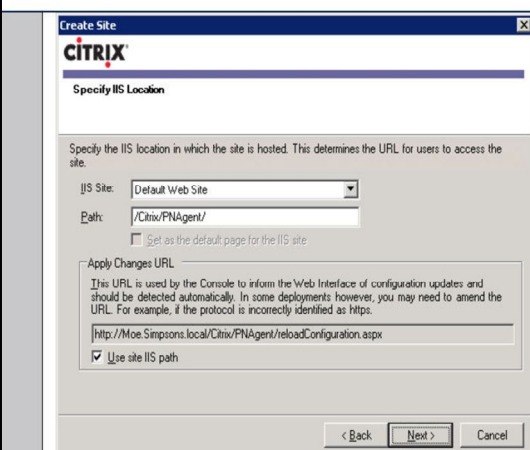
Application Delivery Controller Setup	
Screenshot	Description
<p>1</p> 	<ul style="list-style-type: none"> <li>On the XenApp server, launch the Access Management Console</li> <li>Select the Web Interface option</li> <li>Select Create site</li> </ul>
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# Application Delivery Controller Setup

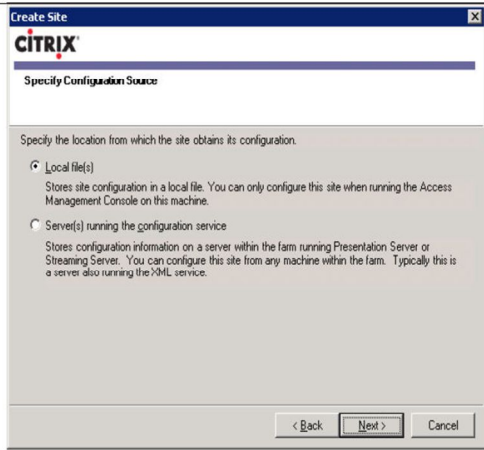
Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>• On the <b>Create Site</b> screen, select the <b>Program Neighborhood Agent Services</b> site option</li><li>• Select <b>Next</b></li></ul>

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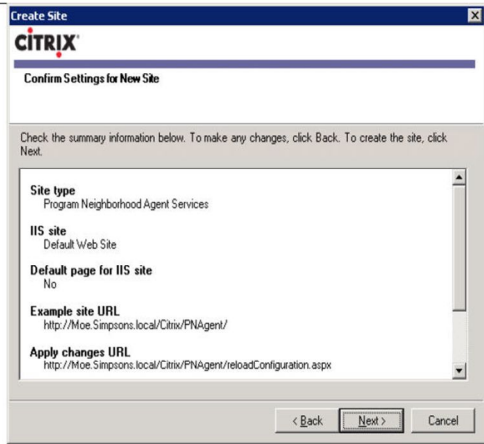
# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Leave the IIS Location information as default and select Next</li></ul>

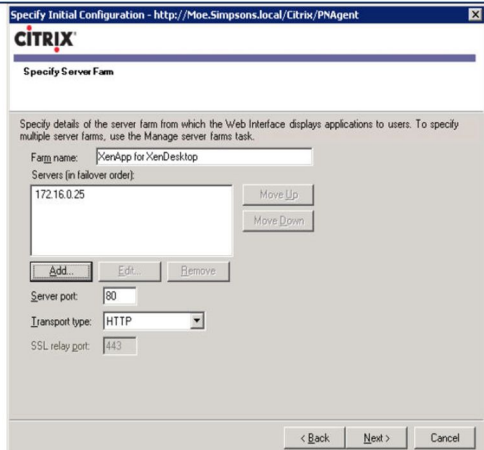

# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Leave the Configuration Source options as default and select <b>Next</b></li></ul>

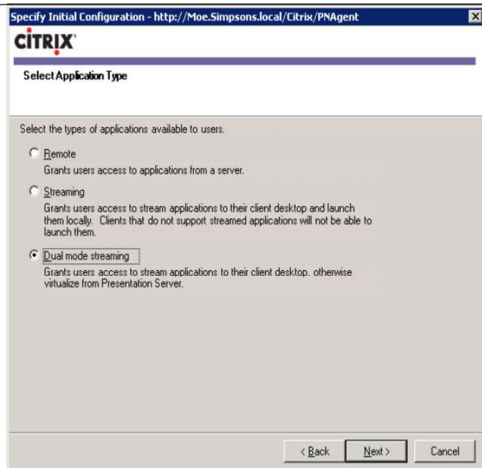
# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>• On the <b>Confirm Settings for New Site</b> screen, select <b>Next</b></li><li>• A new Web Interface site is being created that will deliver applications to the virtual desktops.</li><li>• When the setup is complete, enter in the <b>Advanced Configuration options</b> screen</li></ul>

# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"> <li>Enter in the following information for Farm Information screen <ul style="list-style-type: none"> <li>Farm Name: XenApp for XenDesktop (this is customizable)</li> <li>Servers: IP address of the XenApp server</li> </ul> </li> <li>Select Next</li> </ul> <p><i>Note: To provide some redundancy, multiple XenApp servers should be built and located within the same XenApp farm. The Servers entry on this screen should contain multiple XenApp servers for redundancy.</i></p>
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# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>• On the Application Type screen, select <b>Dual mode streaming</b></li><li>• Select <b>Next</b></li><li>• Select <b>Finish</b></li></ul> <p>The Web Interface site is now ready to delivery applications to virtual desktops. If the defaults IIS settings were used, the address is: <a href="http://IPAddress/Citrix/PNAgent">http://IPAddress/Citrix/PNAgent</a></p>

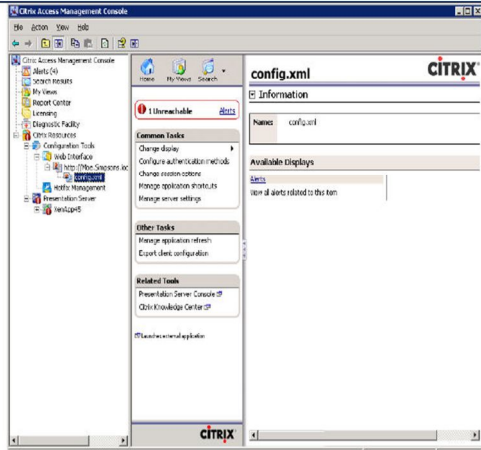
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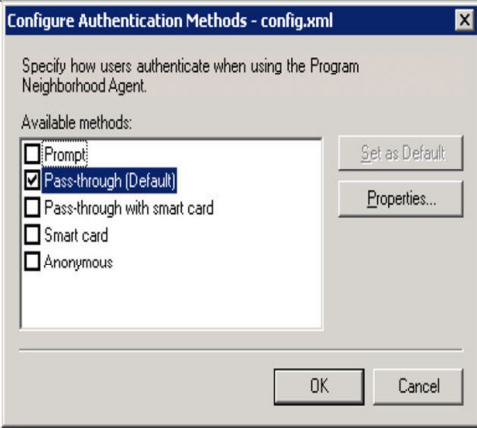
15

# Application Delivery Controller Setup

## Application Delivery Controller Setup

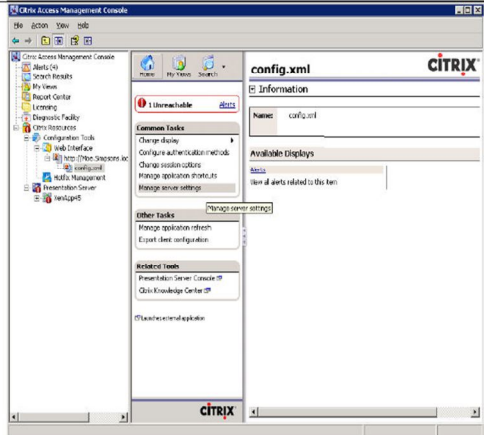
Screenshot	Description
	<ul style="list-style-type: none"> <li>• Select the newly created site's config.xml file</li> <li>• Select Configure authentication methods</li> </ul>

# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Select the <b>Pass-through</b> option for authentication</li><li>• Select <b>OK</b></li></ul> <p>This option will automatically use the user's workstation login credentials to log in with the Application Receiver. When a users logs into the workstation, those credentials will also be used to authenticate to the XenApp farm and the appropriate applications will automatically be delivered down to the virtual desktop.</p>

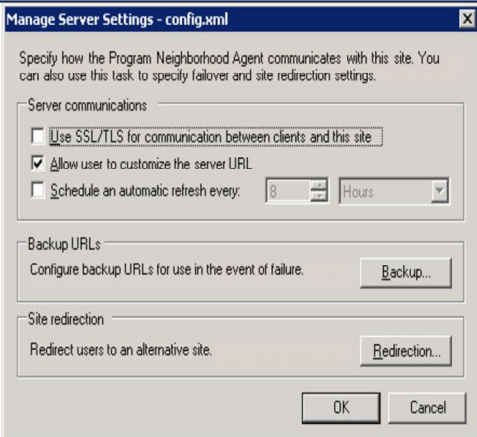
# Application Delivery Controller Setup

## Application Delivery Controller Setup

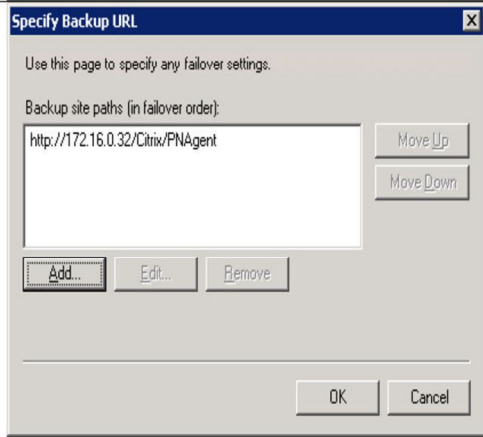
Screenshot	Description
	<ul style="list-style-type: none"> <li>Select the <b>Manage Server Settings</b> option within the Access Management Console</li> </ul>

# Application Delivery Controller Setup

## Application Delivery Controller Setup

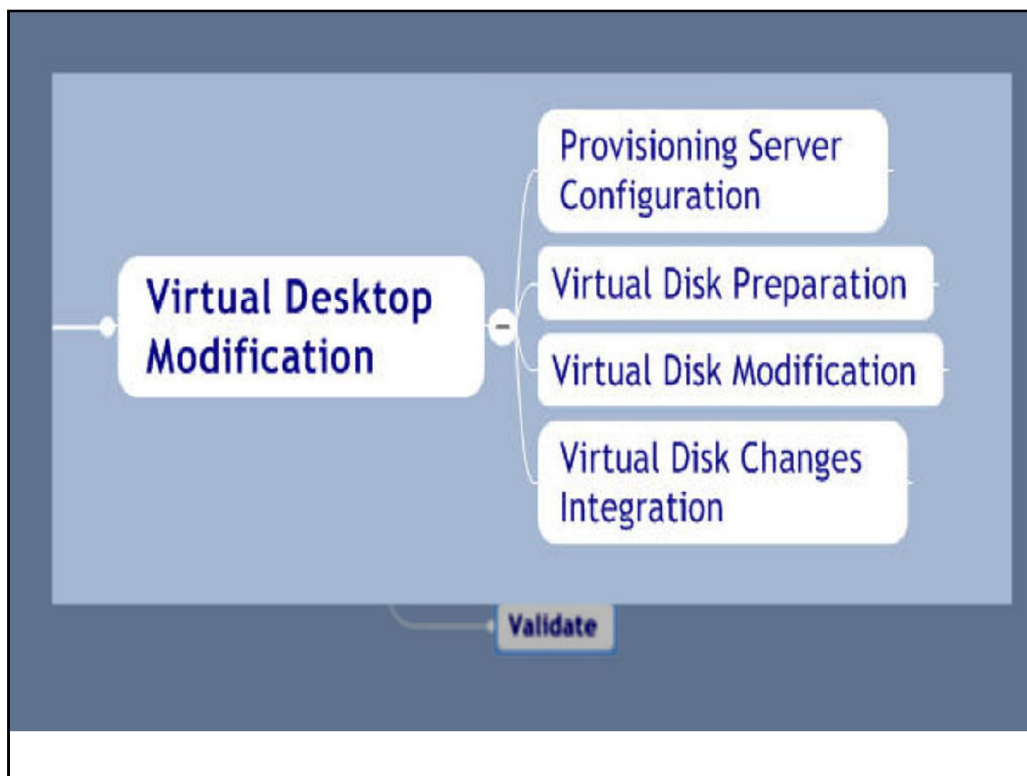
Screenshot	Description
	<ul style="list-style-type: none"><li>• Select the <b>Backup</b> button to provide redundancy</li></ul>

# Application Delivery Controller Setup

Application Delivery Controller Setup	
Screenshot	Description
	<ul style="list-style-type: none"><li>Enter in the URL for the secondary XenApp server.</li></ul> <p>If connections to the primary fail, the Application Receiver will contact the backup address.</p>



## Virtual Desktop Modification



## Virtual Desktop Modification

### Overview

With so many devices utilizing a single image, it is imperative that changes to the virtual disk happen in a structured and protected manner. Updates should be tested in a pilot/staging environment and after approval they should be integrated into the production system. This can be quickly accomplished by using the update virtual disk functionality within Provisioning Server by following:

❑ Provisioning Server Configuration

❑ Virtual Disk Preparation

❑ Virtual Disk Modification

❑ Virtual Disk Updates

Integrating XenApp application delivery into the virtual desktop image will follow this process.

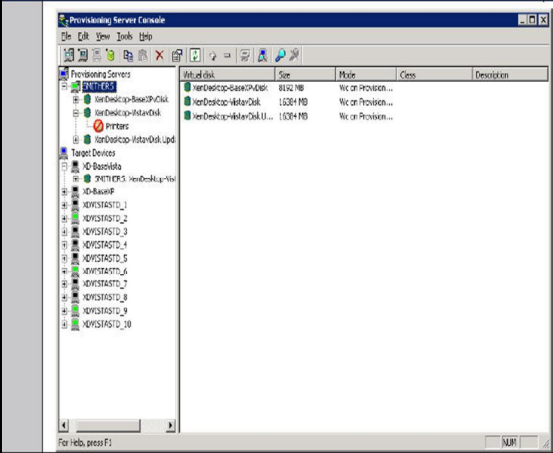


## Provisioning Server Configuration

### **Provisioning Server Configuration**

This section will show a few items that must be validated before virtual disk modification can begin.

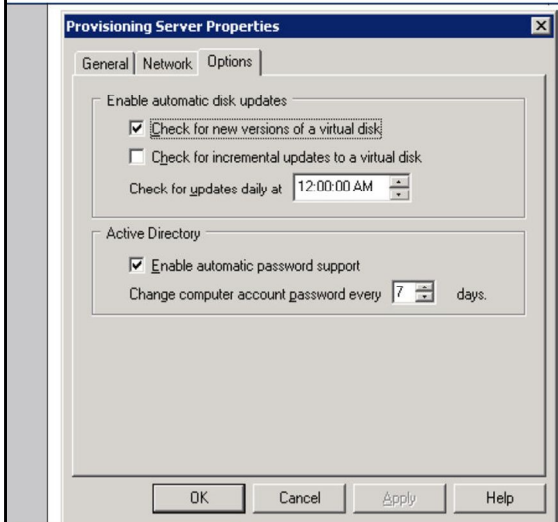
# Provisioning Server Configuration

Provisioning Server Configuration	
Screenshot	Description
	<p>On the Provisioning Server</p> <ul style="list-style-type: none"><li>Right-click on the server name and select Properties</li></ul>

## Provisioning Server Configuration

This section will show a few items that must be validated before virtual disk modification can begin.

# Provisioning Server Configuration

Provisioning Server Configuration	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Right-click on the base virtual disk to update and select <b>Properties</b></li><li>• Select the <b>Options</b> tab</li><li>• Enable <b>Check for new version of a virtual disk</b></li><li>• Select <b>OK</b></li></ul> <p>These settings will enable Provisioning Server to make updates to the virtual disks based on the steps that follow.</p>

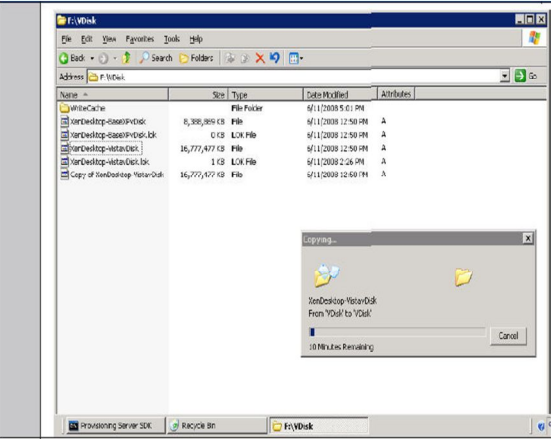
## Provisioning Server Configuration

This section will show a few items that must be validated before virtual disk modification can begin.

## Virtual Disk Preparation

# Virtual Disk Preparation

## New Virtual Disk Creation

Screenshot	Description
	<p>On the Provisioning Server</p> <ul style="list-style-type: none"> <li>Launch <b>Explorer</b> and navigate to the location of the base virtual desktop image</li> <li>Make a copy of the XenDesktop-BaseVistaDisk image and rename it to <b>XenDesktop-BaseVistaDisk Update</b></li> </ul> <p><i>Note: You want to make sure the image is not in use when making a copy.</i></p>

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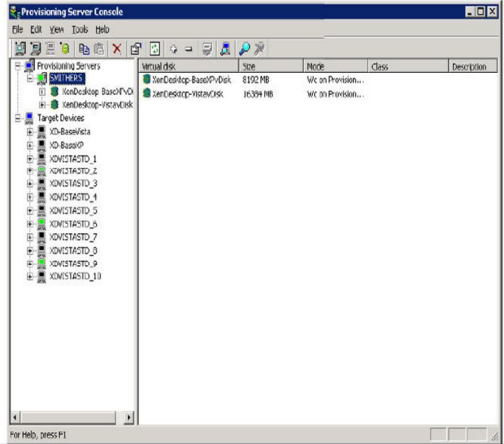
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## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

# Virtual Disk Preparation

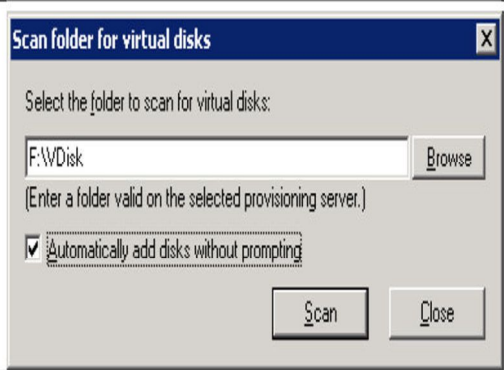
New Virtual Disk Creation	
Screenshot	Description
	<ul style="list-style-type: none"> <li>Within the Provisioning Server console, select the server name and select <b>Scan for virtual disks</b></li> </ul>


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## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

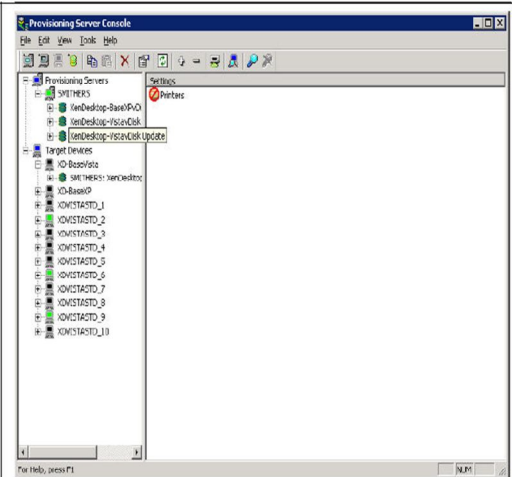
# Virtual Disk Preparation

New Virtual Disk Creation	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Enter in the path of the virtual disks</li><li>• Select Automatically add disks without prompting</li><li>• Select Scan</li><li>• When the scan is complete, the new virtual disk will appear in the console</li></ul>

## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

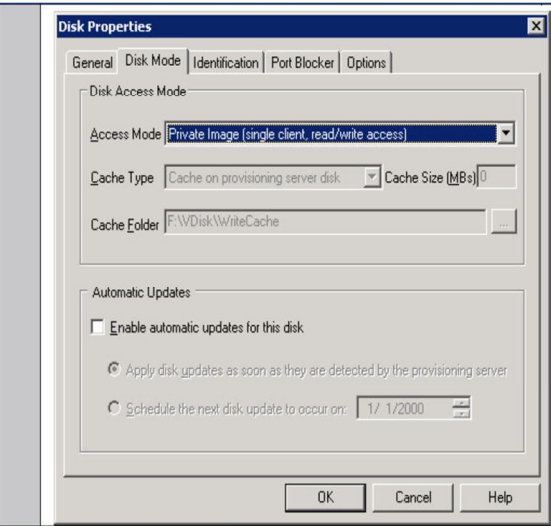
# Virtual Disk Preparation

New Virtual Disk Creation	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Select the newly added virtual disk</li><li>• Right-click and select <b>Properties</b></li></ul>

## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

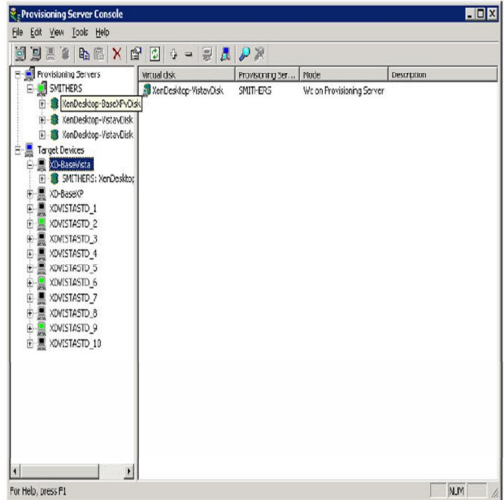
# Virtual Disk Preparation

New Virtual Disk Creation	
Screenshot	Description
	<p>On the Disk Properties screen</p> <ul style="list-style-type: none"><li>• Select the Disk Mode tab</li><li>• Change the Access Mode to Private Image</li><li>• Select Ok</li></ul>

## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

# Virtual Disk Preparation

New Virtual Disk Creation	
Screenshot	Description
 <p>The screenshot shows the Provisioning Server Console interface. On the left, a tree view displays the hierarchy: Provisioning Servers &gt; SMITHERS &gt; Virtual Disks &gt; XD-BASEVISTA. Under XD-BASEVISTA, there are several sub-items including XD-BASEVISTA_1 through XD-BASEVISTA_10. On the right, a table lists the virtual disks with columns for Name, Provisioning Server, and Description. The table shows XD-BASEVISTA_1 through XD-BASEVISTA_10, all provisioned by SMITHERS-EGG, with descriptions like 'Win on Provisioning Server'.</p>	<ul style="list-style-type: none"><li>• Select the base build target device (XD-BASEVISTA)</li><li>• Right-click and select Properties</li></ul>

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## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

# Virtual Disk Preparation

New Virtual Disk Creation

Screenshot

Target Device Properties

General

Disks

Security

Personality

Port Blocker

Status

Boot order:

Virtual Disk First

Boot behavior:

Boot First Disk

Provisionin...	Description	Virtual disk	Description
SMITHE...		XenDesktop-Vist...	

Change...

OK

Cancel

Apply

Help

Description

On the Target Device Properties screen

- Select the **Disks** tab
- Verify the **Boot Order** is **Virtual Disk First**
- Select **Change**

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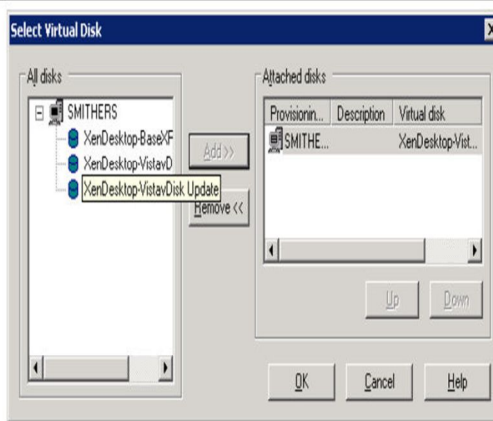
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## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.

# Virtual Disk Preparation

New Virtual Disk Creation	
Screenshot	Description
	<p>On the <b>Select Virtual Disk</b> screen</p> <ul style="list-style-type: none"> <li>• Remove the currently attached disk</li> <li>• Add the <b>XenDesktop-VistavDisk Update</b> copied earlier</li> <li>• Select <b>Ok</b></li> <li>• Select <b>OK</b></li> </ul> <p>The target devices virtual disk has now be re-assigned to the update disk. The update disk will be used to add the Application Receiver and then the changes will be integrated into the base image.</p>

## Virtual Disk Preparation

Updating a virtual disk image should follow a process where a secondary disk is modified and then all target devices are updated to use the newest version automatically. This provides a phased change process and allows for a fallback option in case the changes do not function correctly.



## Virtual Disk Modification

### Virtual Desktop Provisioning

Once the golden base image has been created, it has to be delivered to the potentially thousands of users in an efficient manner, which is with provisioning. The following subsections will demonstrate how to setup the infrastructure to provision the base desktop image:

- ▣ Virtual Disk Allocation

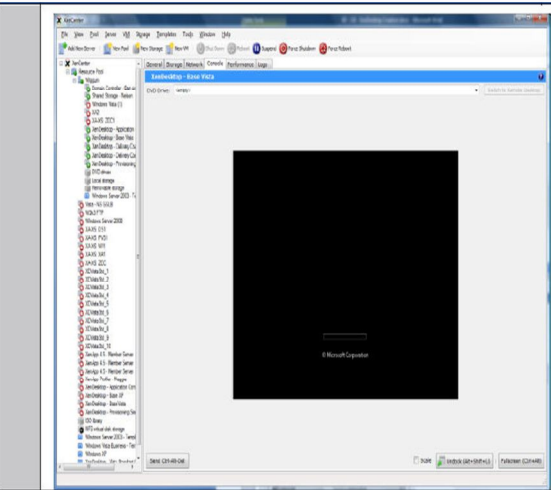

- ▣ Provisioning Server Agent Setup

- ▣ Desktop and Virtual Disk Linking

- ▣ Base Image Build

***Assumption: To provide redundancy, two Provisioning Servers are setup and configured. The storage location (F:\) is a Network Attached Storage share.***



# Virtual Disk Modification

Virtual Disk Modification	
Screenshot	Description
	<p>Within the XenCenter Console, start the Base Vista virtual machine. Changes will be made to this virtual machine and its associated virtual disk from Provisioning Server. Changes made will then be integrated into the base virtual disk for the other provisioned desktops to use.</p>
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## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

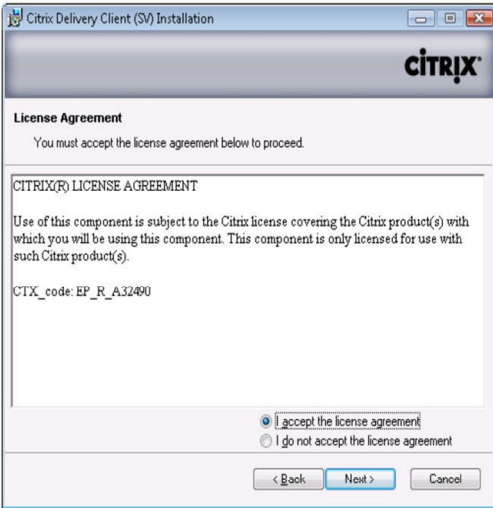
# Virtual Disk Modification

Virtual Disk Modification	
Screenshot	Description
	<ul style="list-style-type: none"><li>• Download and install the XenApp Client version 11 and start the installation.</li><li>• On the Welcome screen, select Next</li></ul>
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## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

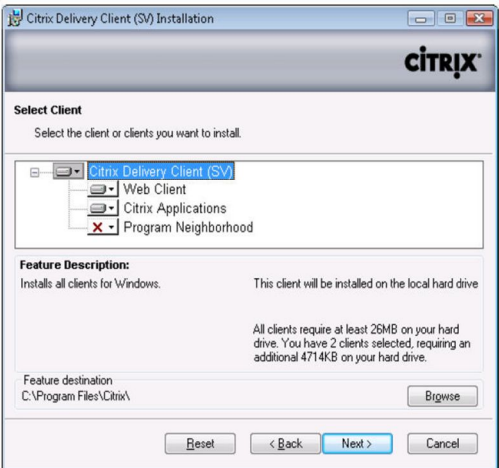
# Virtual Disk Modification


Virtual Disk Modification	
Screenshot	Description
	<p>On the License Agreement screen</p> <ul style="list-style-type: none"><li>• Select I accept the license agreement</li><li>• Select Next</li></ul>

## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

# Virtual Disk Modification

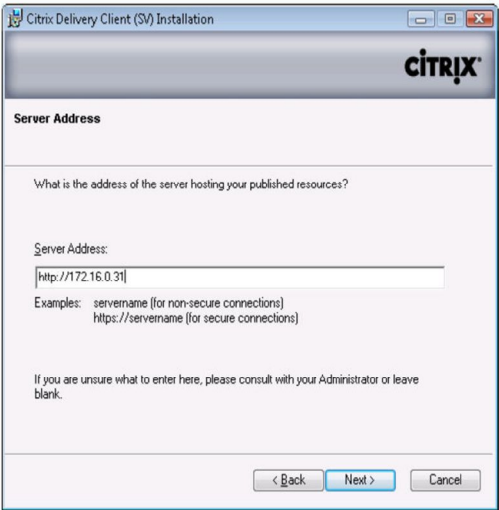
Virtual Disk Modification	
Screenshot	Description
	<p>On the <b>Select Client</b> screen</p> <ul style="list-style-type: none"><li>• Select <b>Web Client</b> and <b>Citrix Applications</b></li><li>• Select <b>Next</b></li></ul>

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## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

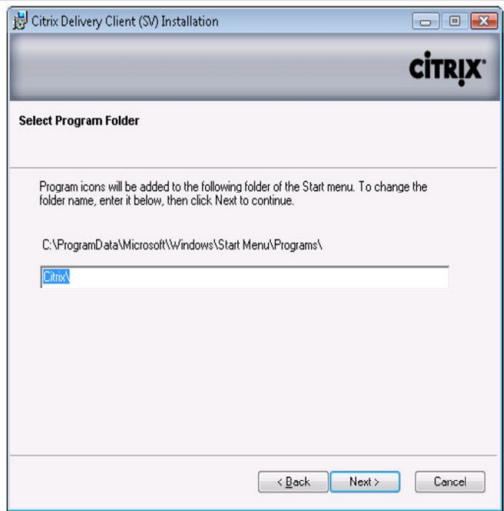
# Virtual Disk Modification


Virtual Disk Modification	
Screenshot	Description
	<p>On the <b>Server Address</b> screen</p> <ul style="list-style-type: none"><li>• Enter in the address to Web Interface for XenApp</li><li>• Select Next</li></ul> <p><i>Note: To provide redundancy, the address entered should be a load balanced address.</i></p>

## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

# Virtual Disk Modification

Virtual Disk Modification	
Screenshot	Description
	<p>On the <b>Select Program Folder</b> screen</p> <ul style="list-style-type: none"><li>• Leave the default</li><li>• Select Next</li></ul>



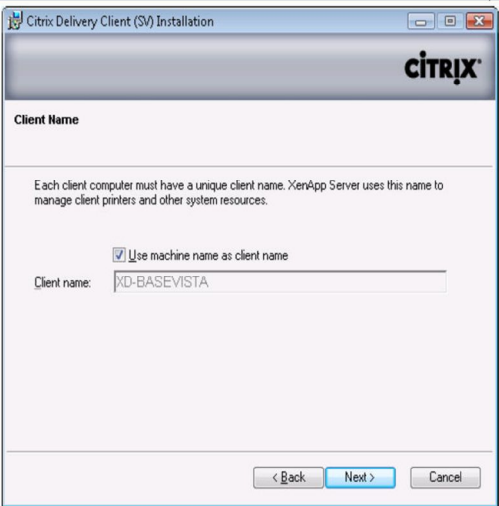
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## Virtual Disk Modification



Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

# Virtual Disk Modification

Virtual Disk Modification	
Screenshot	Description
	<p>On the Client Name screen</p> <ul style="list-style-type: none"><li>• Select Use machine name as client name</li><li>• Select Next</li></ul>

## Virtual Disk Modification


Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

Virtual Disk Modification	
Screenshot	Description
	<p>On the Use Local Name and Password screen</p> <ul style="list-style-type: none"> <li>• Select Yes</li> <li>• Select Next</li> </ul>
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## Virtual Disk Modification



Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

# Virtual Disk Modification

Virtual Disk Modification	
Screenshot	Description
	On the <b>Ready to Install</b> screen • Select Next

## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

Virtual Disk Modification	
Screenshot	Description
	<p>On the <b>Success</b> screen</p> <ul style="list-style-type: none"> <li>• Select <b>Finish</b></li> </ul> <p>Because the system is in private mode, all images will be saved within the BaseXenAppUpdate virtual disk.</p>
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## Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.

Virtual Disk Modification	
Screenshot	Description
 <p>The screenshot shows a Windows Setup window titled "Citrix Streaming Client 1.1 for Windows Setup". The window has a light blue header with the Citrix logo. The main area is white and contains the text: "Citrix Streaming Client 1.1 for Windows has been successfully installed." Below this, it says "Click Finish to exit Setup." At the bottom, there are three buttons: "&lt; Back", "Finish", and "Cancel". The "Finish" button is highlighted in blue.</p>	<p>Install the Citrix Streaming Client onto the virtual desktop image with default settings.</p>
<div>  <span>© 2008 Citrix Systems, Inc. — All rights reserved</span> <span>46</span> </div>	

### Virtual Disk Modification

Using the newly create virtual disk, the appropriate changes will be integrated. Those changes will then be propagated to the target devices in the following process.



## Virtual Disk Changes Integration

### Virtual Desktop Provisioning

Once the golden base image has been created, it has to be delivered to the potentially thousands of users in an efficient manner, which is with provisioning. The following subsections will demonstrate how to setup the infrastructure to provision the base desktop image:

▣ Virtual Disk Allocation

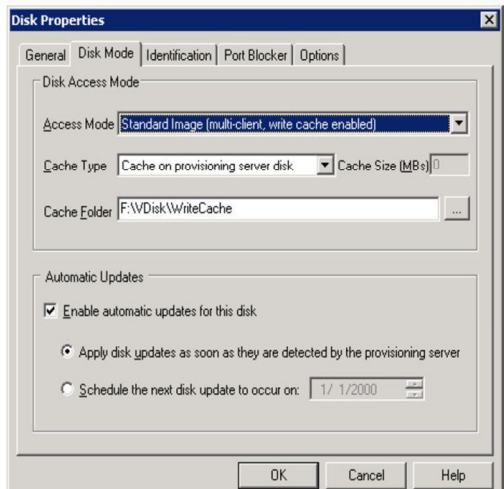
▣ Provisioning Server Agent Setup

▣ Desktop and Virtual Disk Linking

▣ Base Image Build

***Assumption: To provide redundancy, two Provisioning Servers are setup and configured. The storage location (F:\) is a Network Attached Storage share.***

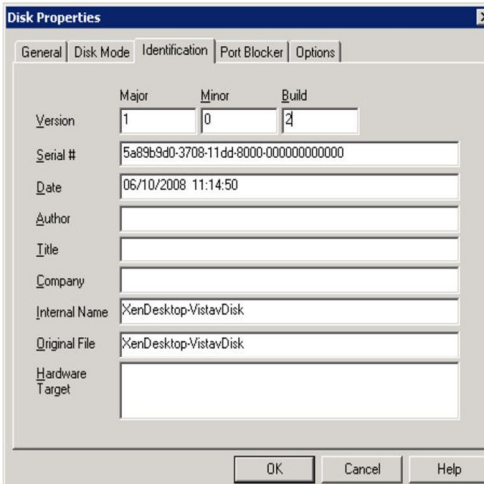
# Virtual Disk Changes Integration

Virtual Disk Changes Integration	
Screenshot	Description
	<p>Once the changes are complete, shut down the virtual desktop and complete the following:</p> <ul style="list-style-type: none"> <li>• Select the <b>XenDesktop-VistavDisk Update</b>, select <b>File -&gt; Properties</b></li> <li>• Select the <b>Disk Mode</b> tab</li> <li>• Change the Access Mode to <b>Standard Client</b></li> <li>• Repeat this for the <b>XenDesktop-VistavDisk</b> image</li> <li>• Select <b>Enable automatic updates for this disk</b></li> </ul> <p>Note: All items in the Disk Access Mode section must be identical between the two virtual disks being used in the update process.</p>

## Virtual Disk Changes Integration

With the virtual disk changes complete, the target devices must be set to utilize the latest and greatest image. The following steps outline the process.

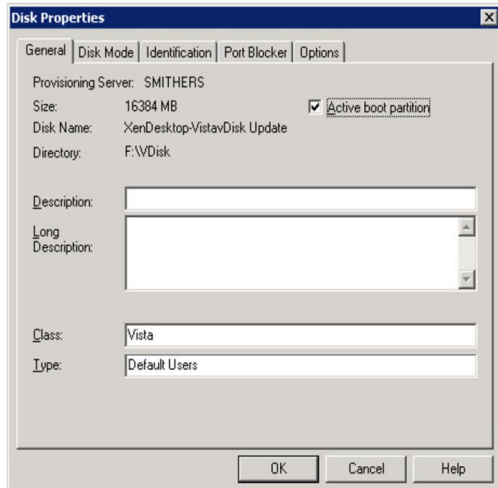
# Virtual Disk Changes Integration

Virtual Disk Changes Integration	
Screenshot	Description
	<ul style="list-style-type: none"> <li>On the properties for the XenDesktop-VistavDisk Update, select the <b>Identification</b> tab</li> <li>Update the version number of the updated disk to 1.0.2. The updated virtual disk's version number must be greater than the base disk's version number.</li> </ul>

## Virtual Disk Changes Integration

With the virtual disk changes complete, the target devices must be set to utilize the latest and greatest image. The following steps outline the process.


# Virtual Disk Changes Integration

Virtual Disk Changes Integration	
Screenshot	Description
	<ul style="list-style-type: none"> <li>On the properties for the XenDesktop-VistavDisk Update, select the <b>General</b> tab</li> <li>Set the following:             <ul style="list-style-type: none"> <li>Class: Vista</li> <li>Type: Default Users</li> </ul> </li> <li>Select <b>OK</b></li> </ul> <p>Repeat the class and type settings for the XenDesktop-VistavDisk image.</p>

## Virtual Disk Changes Integration

With the virtual disk changes complete, the target devices must be set to utilize the latest and greatest image. The following steps outline the process.

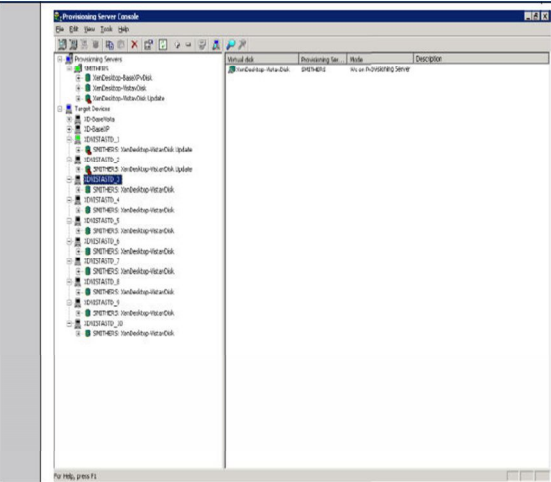
## Virtual Disk Changes Integration

Virtual Disk Changes Integration	
Screenshot	Description
	<p>For each target device to be updated with the latest virtual disk image, do the following:</p> <ul style="list-style-type: none"> <li>• Select the Target Device, right-click, select <b>Properties</b></li> <li>• On the General tab, enter in a value for the <b>Class</b> field. It should be the same value as the virtual disk images.</li> <li>• Select <b>OK</b></li> </ul>

### Virtual Disk Changes Integration

With the virtual disk changes complete, the target devices must be set to utilize the latest and greatest image. The following steps outline the process.

# Virtual Disk Changes Integration

Virtual Disk Changes Integration	
Screenshot	Description
 <p>The screenshot shows the Provisioning Server Console interface. On the left, a tree view displays the hierarchy of Provisioning Servers, Target Devices, and Virtual Disks. The right pane shows a table with columns: Virtual Disk, Provisioning Sys., Role, and Description. The table lists several virtual disks, including 'Provisioning-Base-Disk' and 'Provisioning-Base-Disk-Update'.</p>	<ul style="list-style-type: none"> <li>Right-click the Provisioning Server and select <b>Check For Disk Updates -&gt; Check for Updated Virtual Disks</b></li> <li>A window will appear informing you that an update check is occurring. Select <b>OK</b>.</li> </ul> <p>Provisioning Server will look at all target devices Class field to see if they match the base and updated disks. In situations where they do, Provisioning Server will change the target device's assigned virtual disk to the virtual disk with the greatest build number (BaseXenApp Update).</p> <p>Upon each target devices next reboot, they will be utilizing the latest virtual disk image. As new changes are added to the base build, the steps outlined in this section should be followed.</p>

## Virtual Disk Changes Integration

With the virtual disk changes complete, the target devices must be set to utilize the latest and greatest image. The following steps outline the process.



## Virtual Desktop Provisioning

Once the golden base image has been created, it has to be delivered to the potentially thousands of users in an efficient manner, which is with provisioning. The following subsections will demonstrate how to setup the infrastructure to provision the base desktop image:

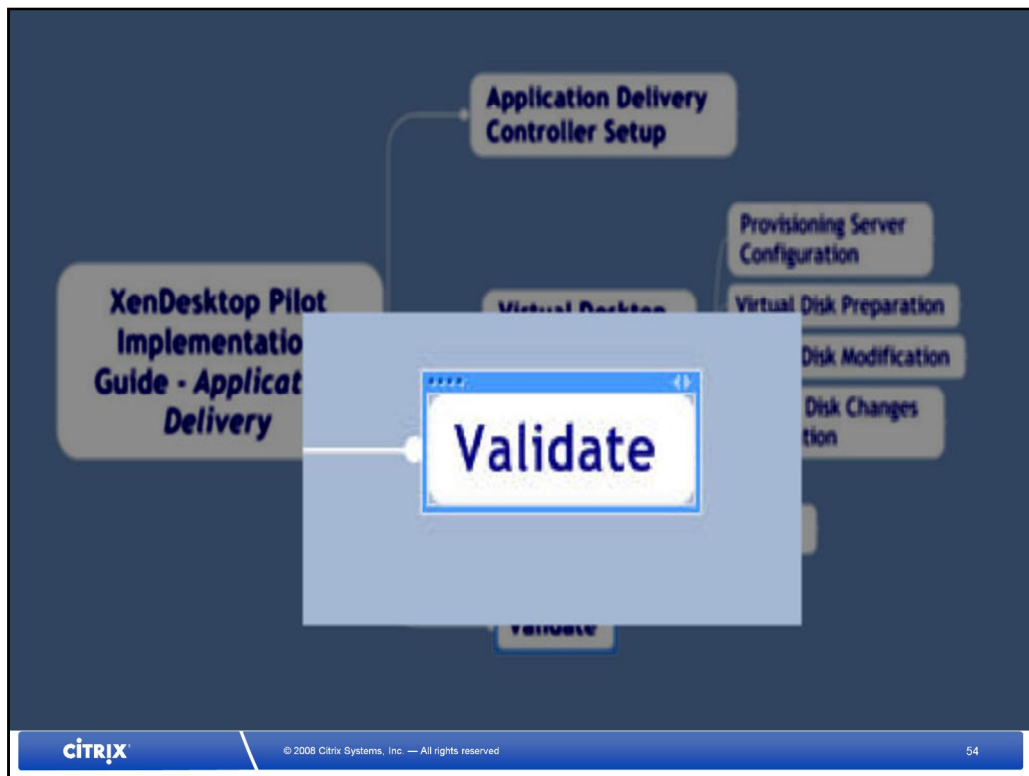
▢ Virtual Disk Allocation

▢ Provisioning Server Agent Setup

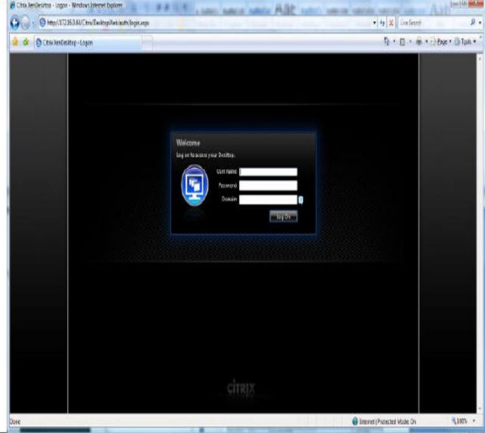
▢ Desktop and Virtual Disk Linking


▢ Base Image Build

***Assumption: To provide redundancy, two Provisioning Servers are setup and configured. The storage location (F:\) is a Network Attached Storage share.***



# Validate & Test

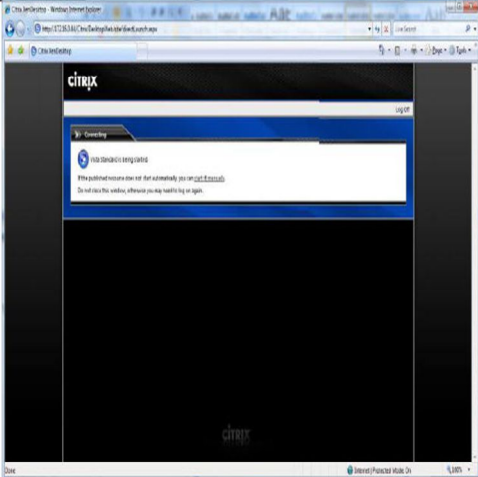
Test	
Screenshot	Description
1 	<ul style="list-style-type: none"><li>From the client, launch the a browser to <a href="http://XenDesktopDeliveryControllerAddress">http://XenDesktopDeliveryControllerAddress</a></li><li>Authenticate with a valid user name, password and domain</li></ul>


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## Validate

With the XenApp integration complete, it is time to test to verify users receive their applications appropriately.

## Validate & Test


Test	
Screenshot	Description
2 	<ul style="list-style-type: none"><li>The XenDesktop published virtual desktop should appear and auto-launch</li></ul>

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### Validate

With the XenApp integration complete, it is time to test to verify users receive their applications appropriately.

## Validate & Test

Test	
Screenshot	Description
3 	<ul style="list-style-type: none"><li>The new virtual desktop should be launched and the user should be automatically signed in. Upon reaching the virtual desktop, the delivered applications should appear, based on the XenApp configuration.</li></ul>

### Validate

With the XenApp integration complete, it is time to test to verify users receive their applications appropriately.

## XenDesktop Pilot Implementation Guide

Virtual Desktop Delivery

Application Delivery

Personalization

Security

Redundancy

Maintaining

## Next Post Will Cover



