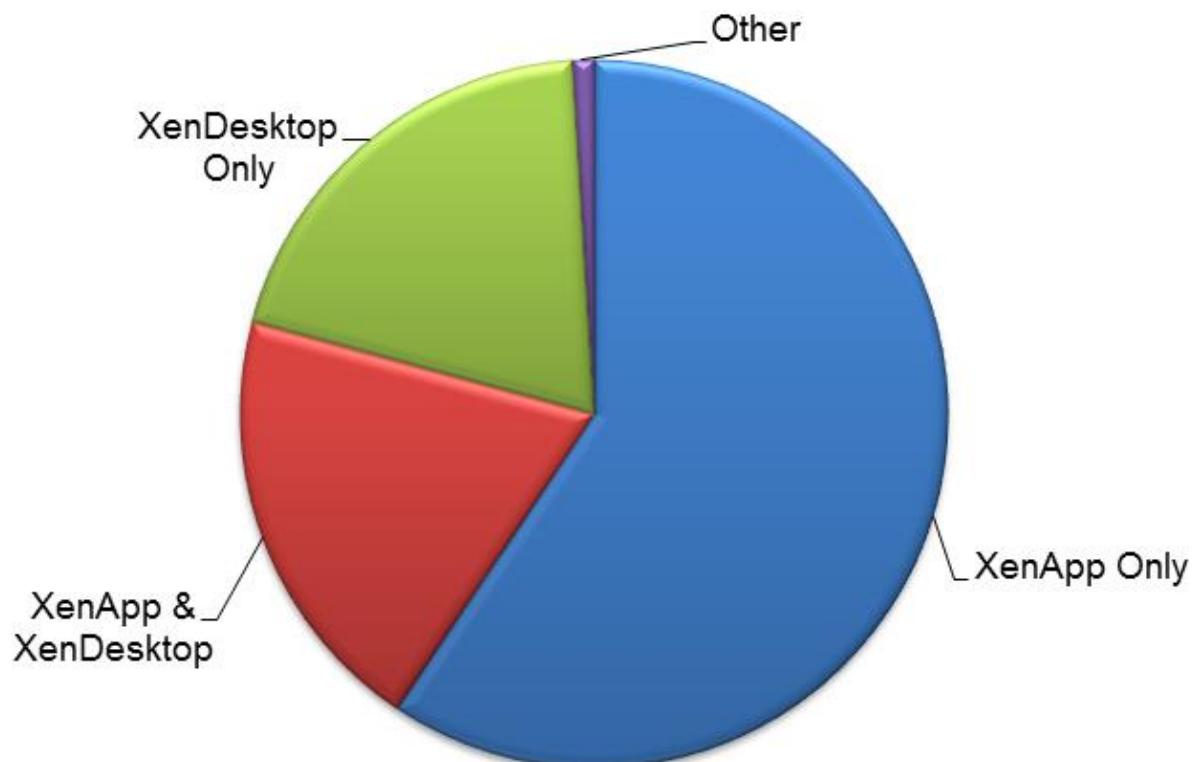
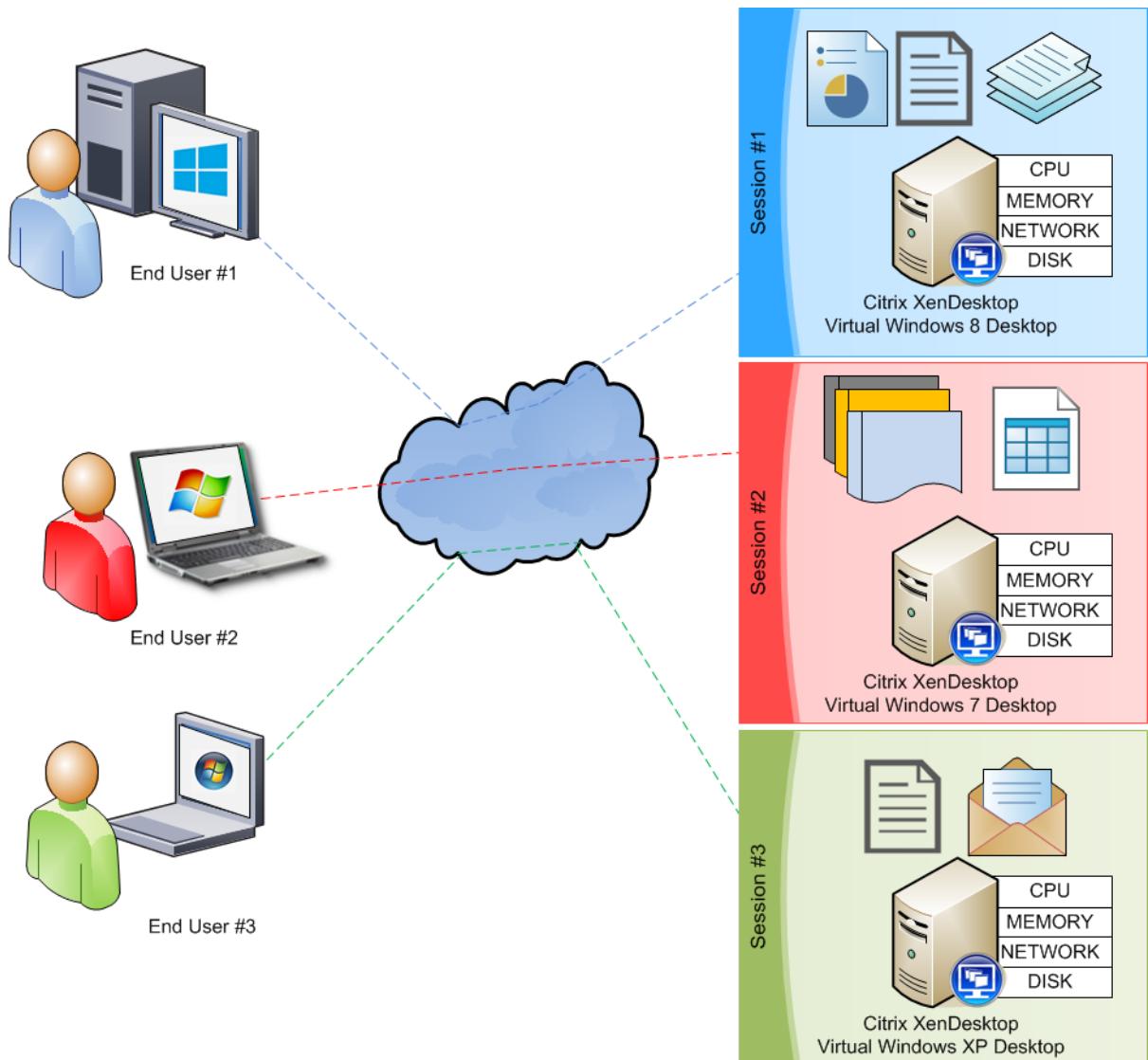
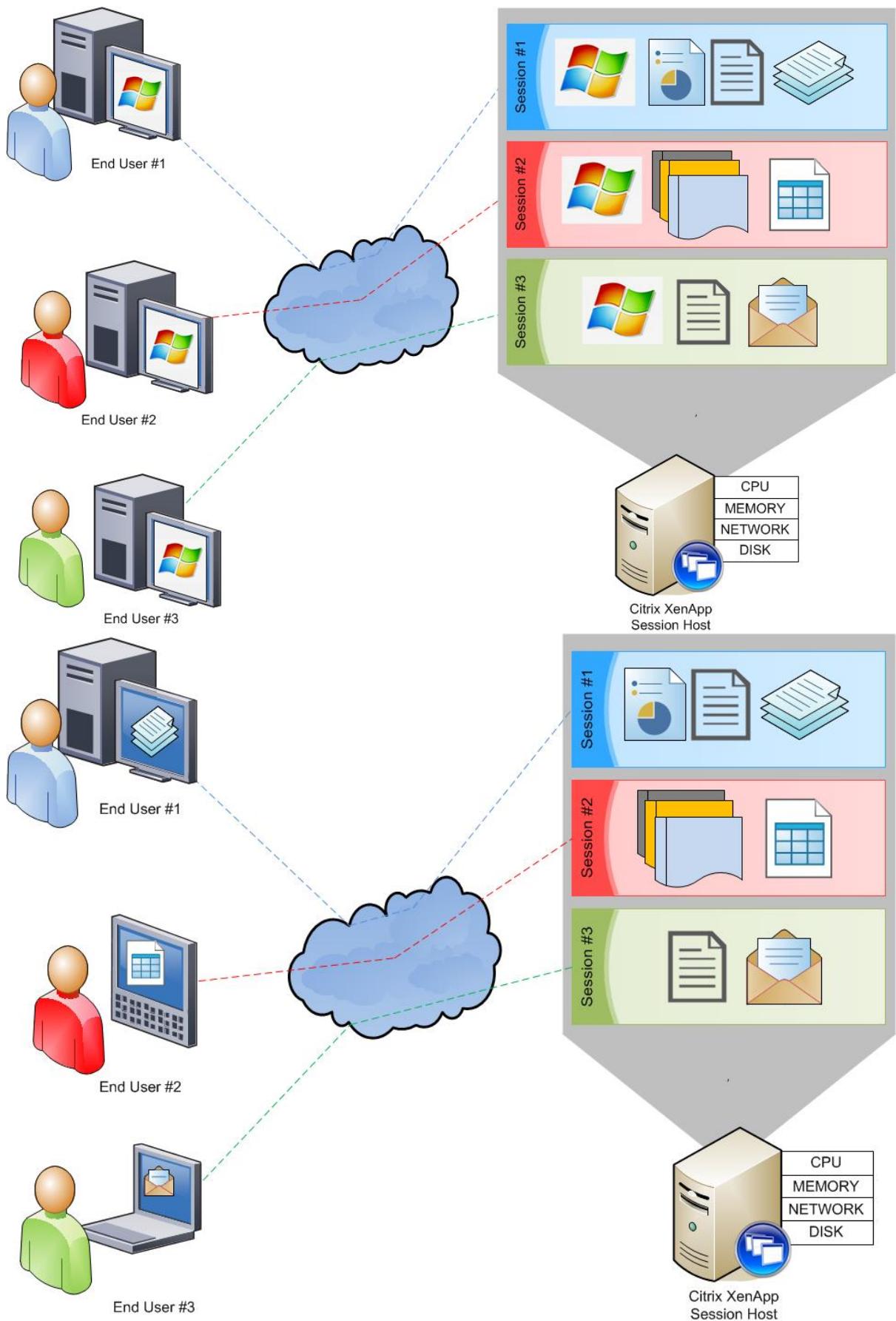


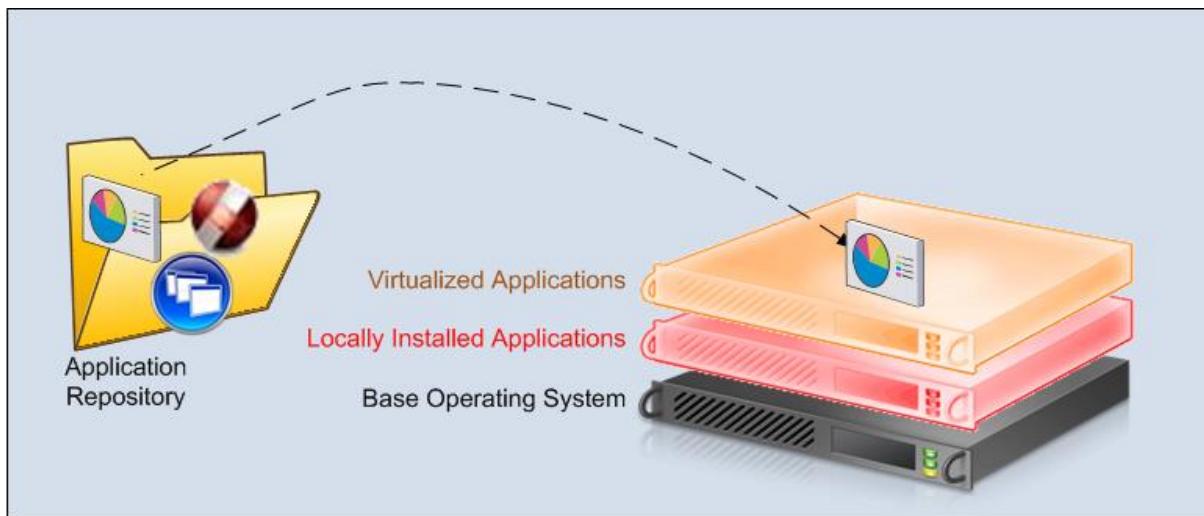
## Preface



## Chapter 1







**User Data Layer**

**User Profile Layer**

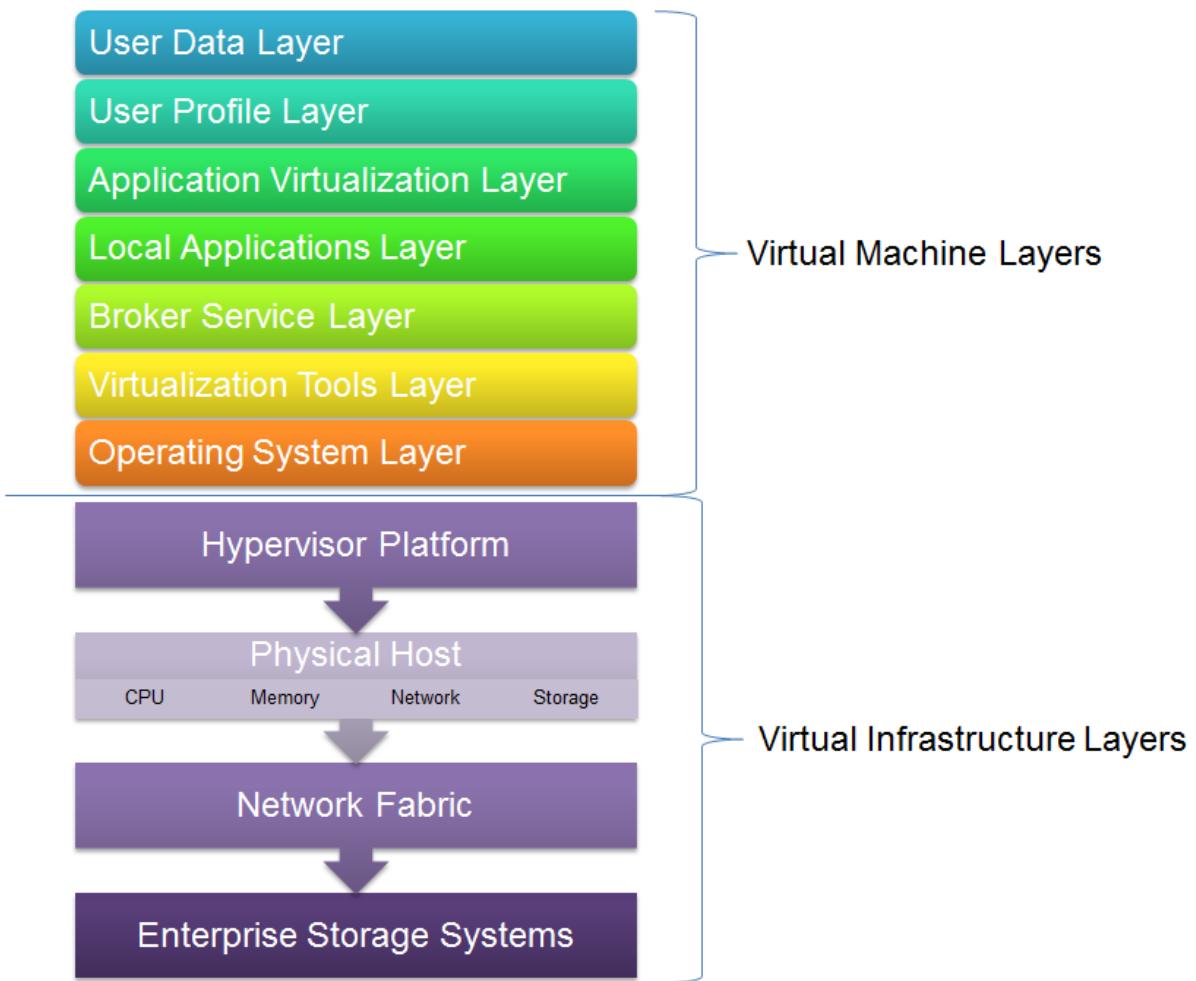
**Application Virtualization Layer**

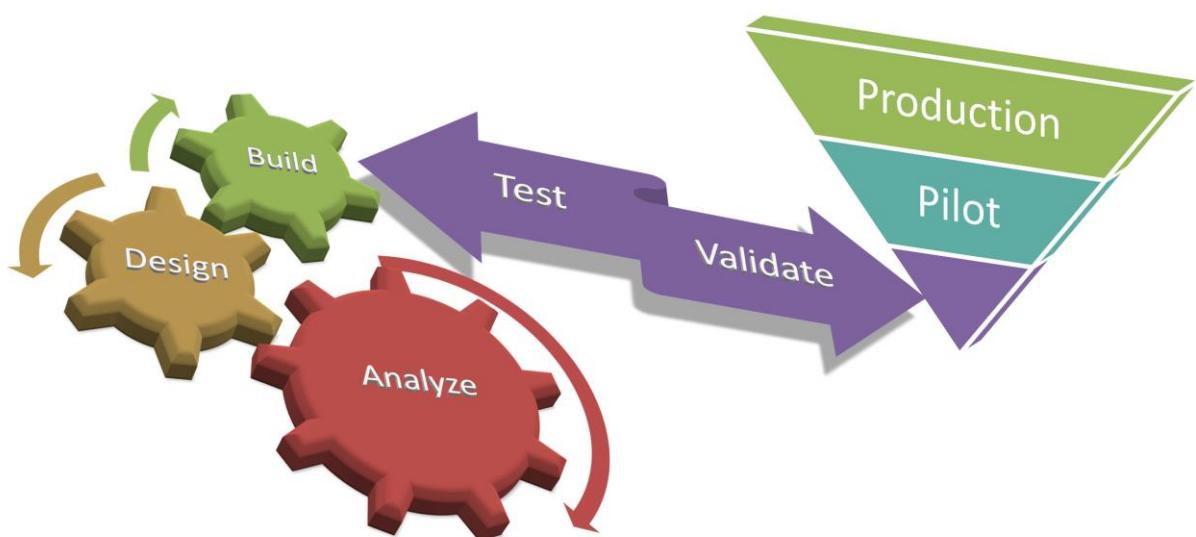
**Local Applications Layer**

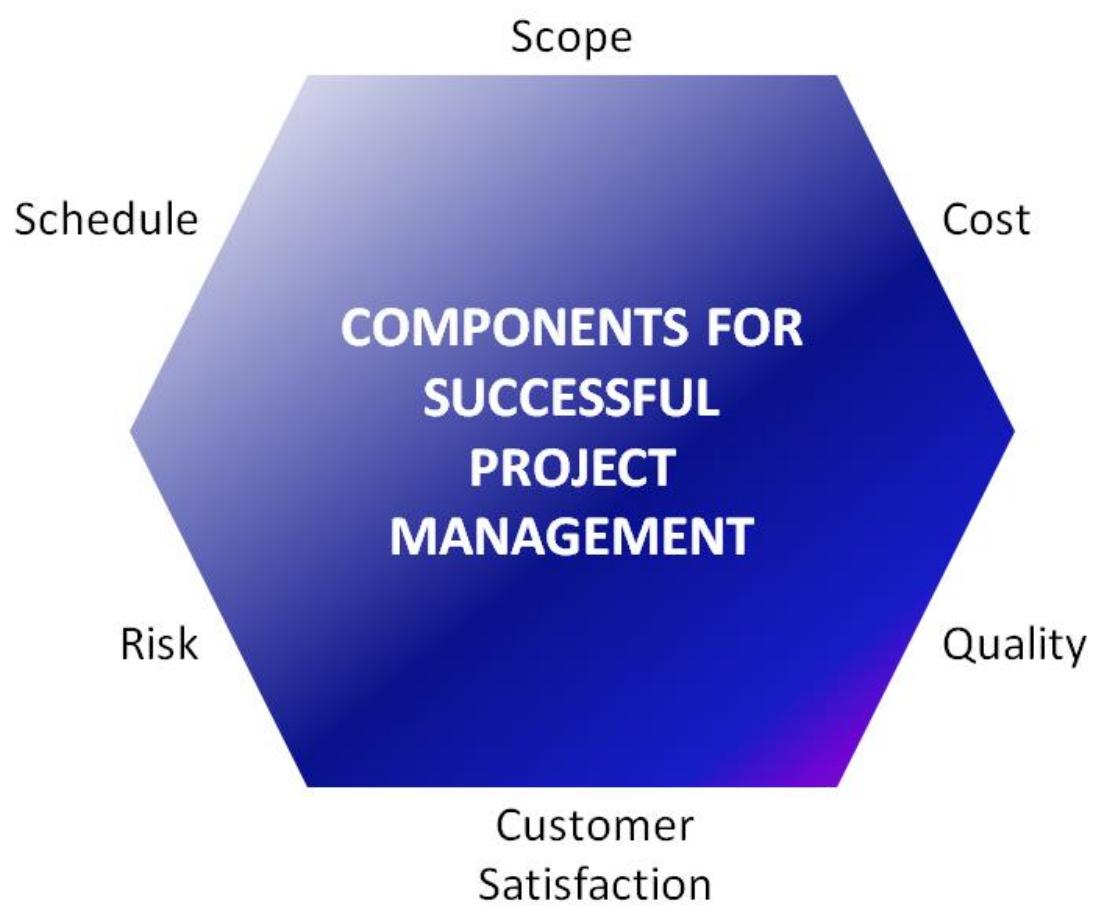
**Broker Service Layer**

**Virtualization Tools Layer**

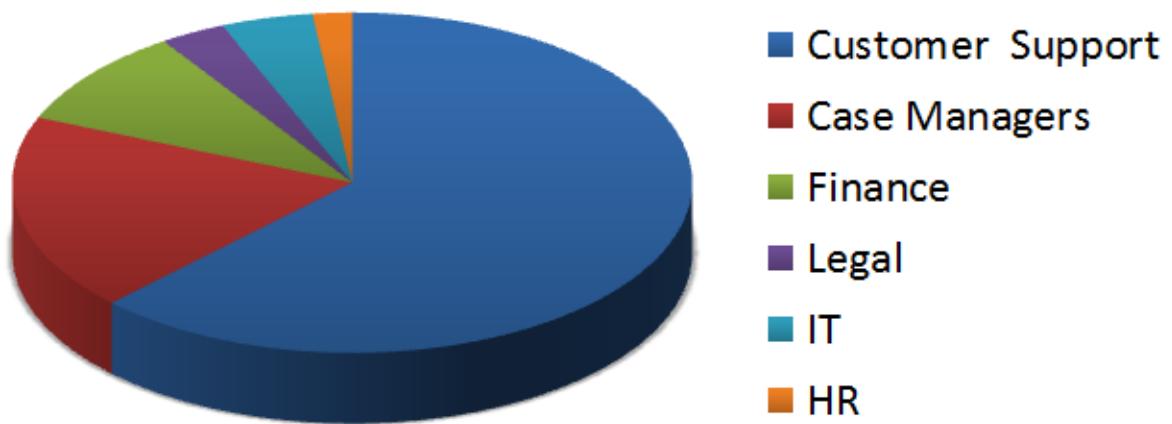
**Operating System Layer**

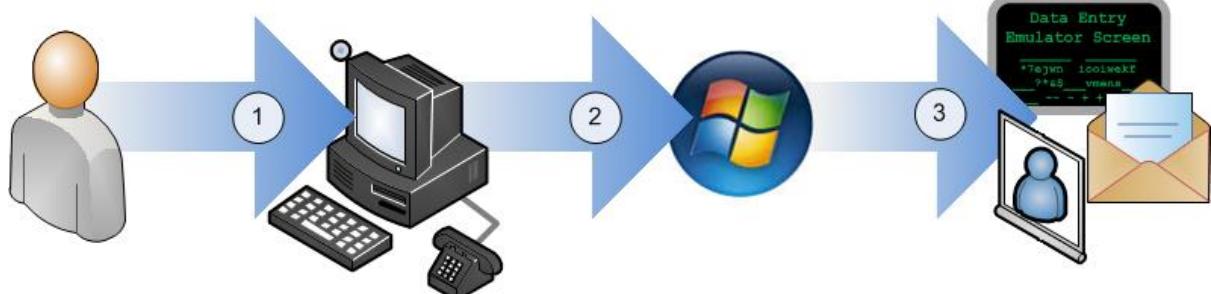
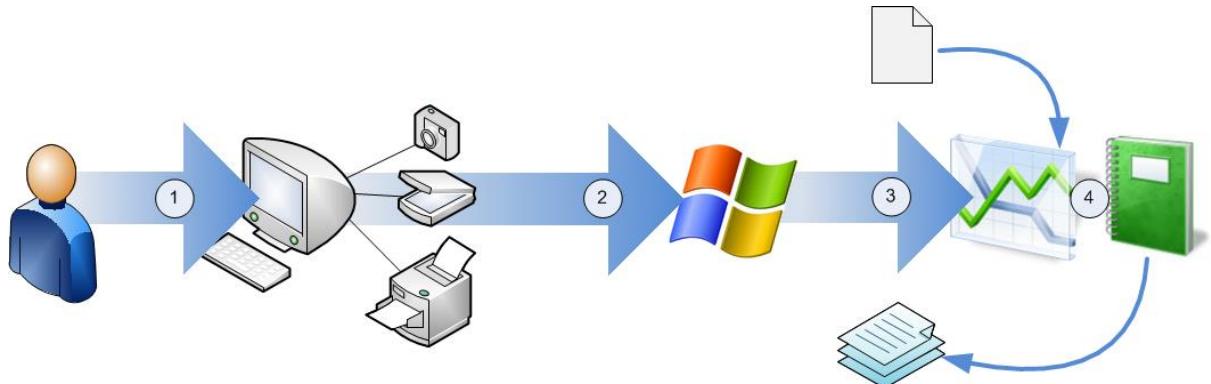
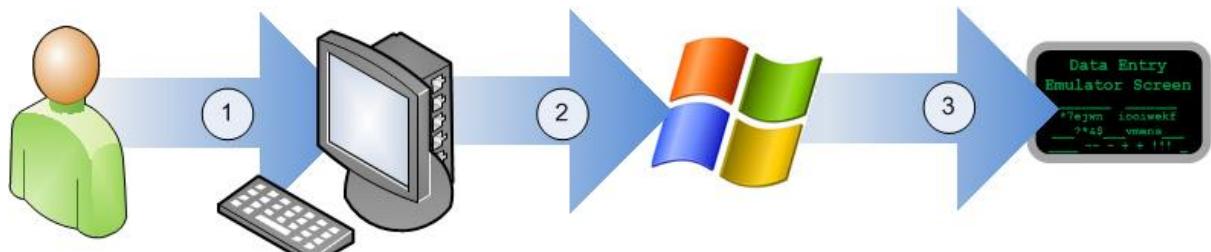
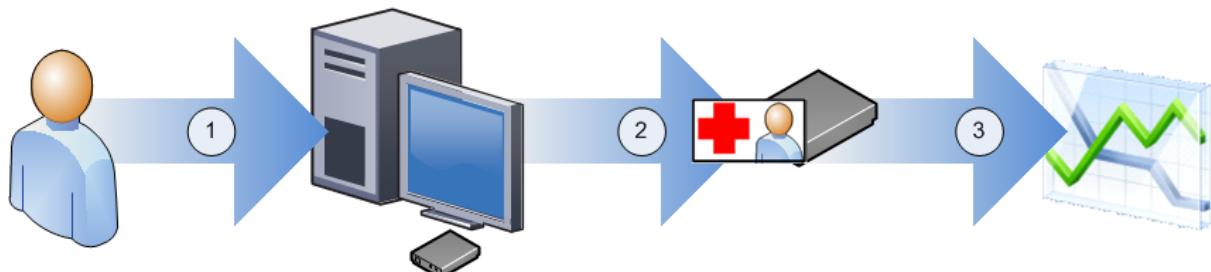


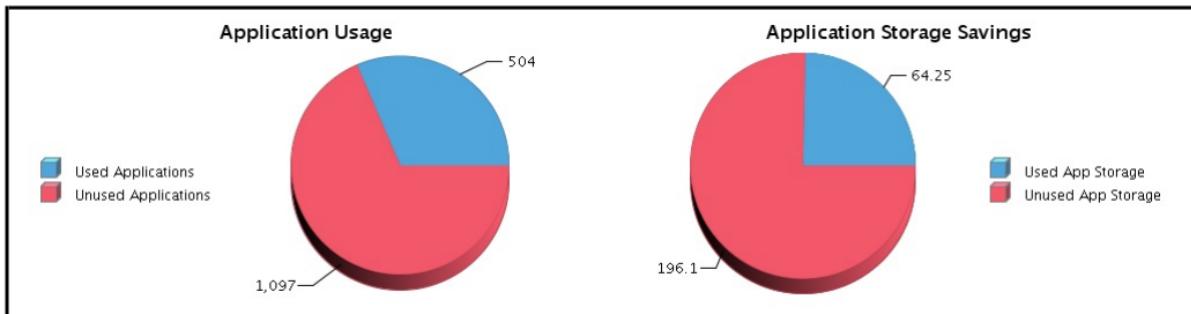
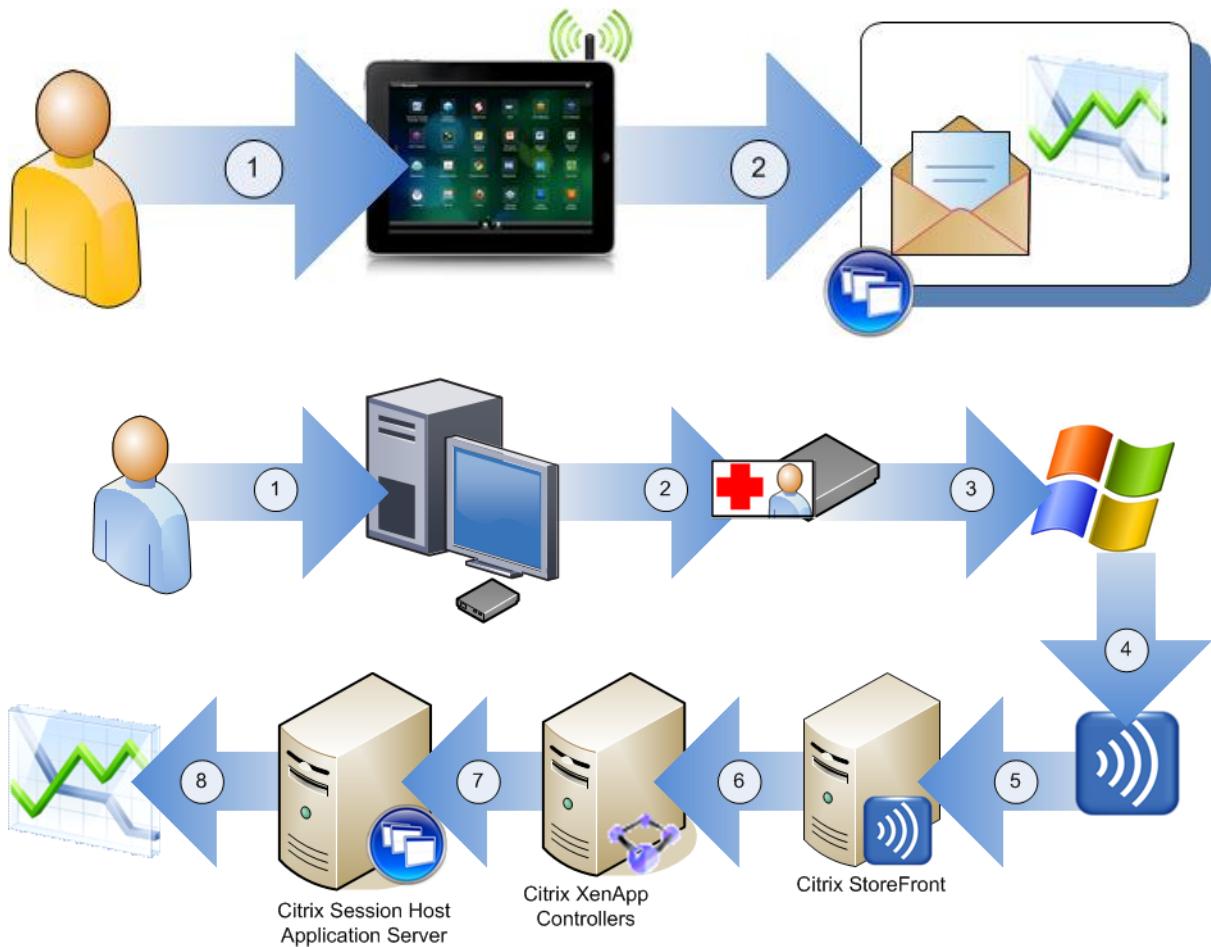




## Chapter 2







Application Name	Machine Install Count	Machine Used Count	Approx. Launches Per User	Avg. Launch Delay	CPU Time Used	ANR per Sec	Peak Avg. Mem Used	Peak Avg. IOPs	Total Install Size	Total Storage Savings	App Virt Complexity
Skype™ 5.10 (v5.10.116)	13	8	3	00:00:00.32s	00:02:06.817s	18.3	81 MB	1.36	336 MB	129 MB	Medium
Skype™ 5.9 (v5.9.123)	12	2	3	00:00:00.20s	00:00:15.736s	49.2	73 MB	35.37	314 MB	261 MB	Medium
Viscosity.exe (v1.3.7)	12	4	3	00:00:00.75s	00:00:00.2s	251068.4	17 MB	0	25 MB	17 MB	Low
Windows Calculator (v6.1.7600)	12	5	1	00:00:00.23s	00:00:00.3s	11396.0	4 MB	0	9 MB	5 MB	Low
ApMspFwd (v7, 0, 0, 30)	11	5	3	00:00:00.52s	00:00:01.665s	271.4	959 KB	0	643 kB	351 kB	Low
Firefox (v14.0.1)	11	8	9	00:00:00.23s	00:00:40.638s	36.8	188 MB	17.24	10 MB	3 MB	Low
Google Chrome (v21.0.1180)	11	10	121	00:00:00.243s	00:01:50.48s	162.6	57 MB	30.22	13 MB	1 MB	Low
Microsoft Office Professional Edition 2003 (v11.0.8173)	42	1	1	n/a	00:00:00.000s	0.0	4 MB	0	46 GB	45 GB	High
COM Surrogate (v6.1.7600)	36	4	1	n/a	00:00:00.17s	37660.8	41 MB	0.09	260 KB	231 KB	Low
Microsoft Office Professional Plus 2010 (v14.0.6029)	36	11	11	00:00:00.67s	00:00:48.6s	56.4	70 MB	42.16	56 GB	39 GB	High
Internet Explorer (v9.00.8112)	34	15	16	00:00:00.37s	00:02:15.271s	29.4	105 MB	11.89	24 MB	14 MB	High
Microsoft Windows Search Protocol Host (v7.00.7601)	29	16	12	00:00:00.15s	00:00:29.294s	686.9	4 MB	1.86	5 MB	2 MB	Low
Notepad (v6.1.7600)	27	6	3	00:00:00.21s	00:00:00.39s	2517.2	701 KB	0	5 MB	4 MB	Low
oxygentvfs Application (v1.0.0)	27	16	4	00:00:00.91s	00:00:19.1s	237.5	12 MB	8.33	343 MB	140 MB	Low
Windows Media Player (v12.0.7600)	27	3	2	n/a	00:00:00.140s	527.0	6 MB	0.33	4 MB	4 MB	Low
Cisco WebEx Service (v2732, 2900, 1112, 1900)	26	6	5	00:00:00.29s	00:00:07.552s	19.3	118 MB	1.32	18 MB	14 MB	Low
Internet Explorer (v8.00.7600)	25	2	25	00:00:00.17s	00:00:06.793s	113.3	55 MB	2.88	16 MB	15 MB	High
WebcamDell2.exe (v2.00)	9	3	5	00:00:00.194s	00:00:00.1s	452222.2	1 MB	0	4 MB	3 MB	Low
Windows Command Processor (v6.1.7601)	9	3	1	00:00:00.31s	00:00:00.000s	123015.9	848 KB	0	3 MB	2 MB	Low
FileZilla FTP Client (v3, 5, 3, 0)	8	3	1	00:00:00.17s	00:00:00.7s	9397.5	15 MB	3.76	62 MB	39 MB	Low
persistence Module (v8.15.10)	8	5	4	00:00:00.174s	00:00:00.1s	901234.6	2 MB	0	2 MB	959 KB	Low
Skype™ 5.10 (v5.10.115)	8	4	5	00:00:00.20s	00:00:29.457s	39.9	96 MB	3.03	271 MB	136 MB	Medium

SEVEN64 - Microsoft Windows 7 Professional (x64) SP1  
192.168.1.37 - workgroup - Geert's Windows 7 x64

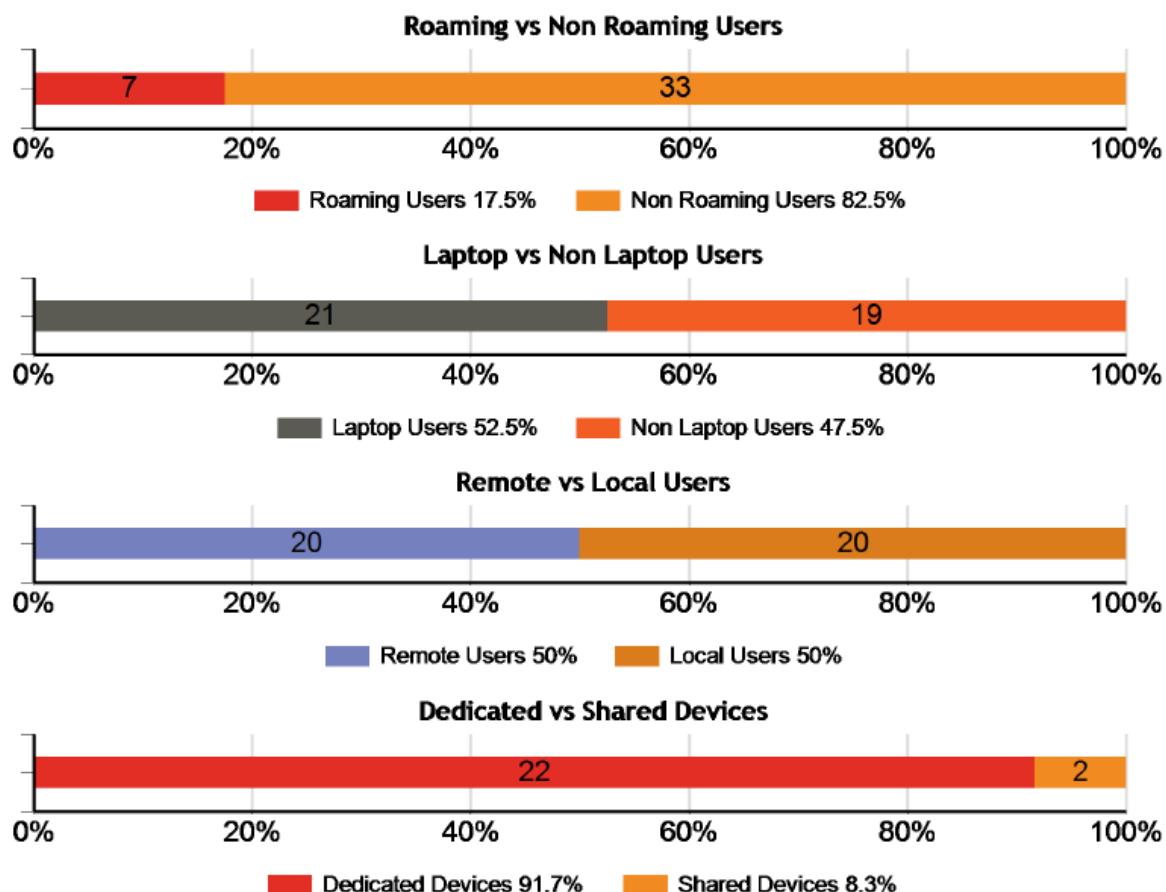
Summary Config Software Event log Report History Docs

Software	Version	Publisher
G Active Query Builder VCL Component	1.17.2.0 Standard Edition	Active Database Software
G Adobe Dreamweaver CS5.5		
G Adobe Flash Player 11 ActiveX		
G Adobe Flash Player 11 Plugin		
G Adobe Photoshop CS5.1		
G Adobe Reader X (10.1.4) - Ned		
G Broadcom NetXtreme-I Netlink		
G CCleaner		

All reports (292)

Report title	Total
Software	
Autorun: Bluetooth software	0
Chart: Software publisher summary	49
License: Autocad software licensekeys	0
License: Software licensekey overview	22
License: Software licensekey summary	13
Server: All servers without Anti-virus software	6
Software: All installed software	192
Software: All Microsoft software	115
Software: All SQL server editions	8
Software: Apple software	0
Software: Approved software	391
Software: Changes in the last 24 hours	1086
Software: Changes in the last 7 days	1086
Software: List of software by computer	633
Software: No dotnet framework 1.1	12
Software: No dotnet framework 2.0	11
Software: No dotnet framework 3.x	10

# User Types and Devices per Domain

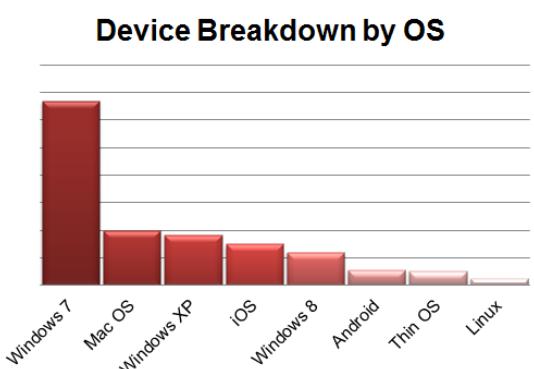
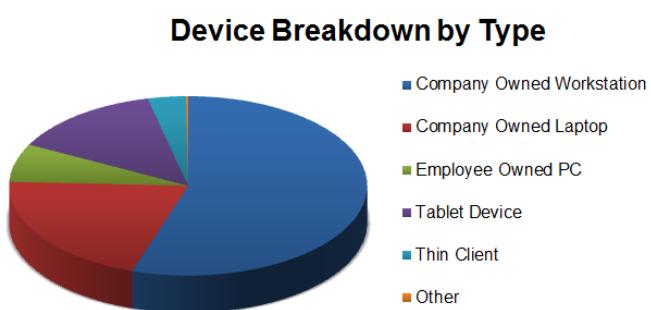
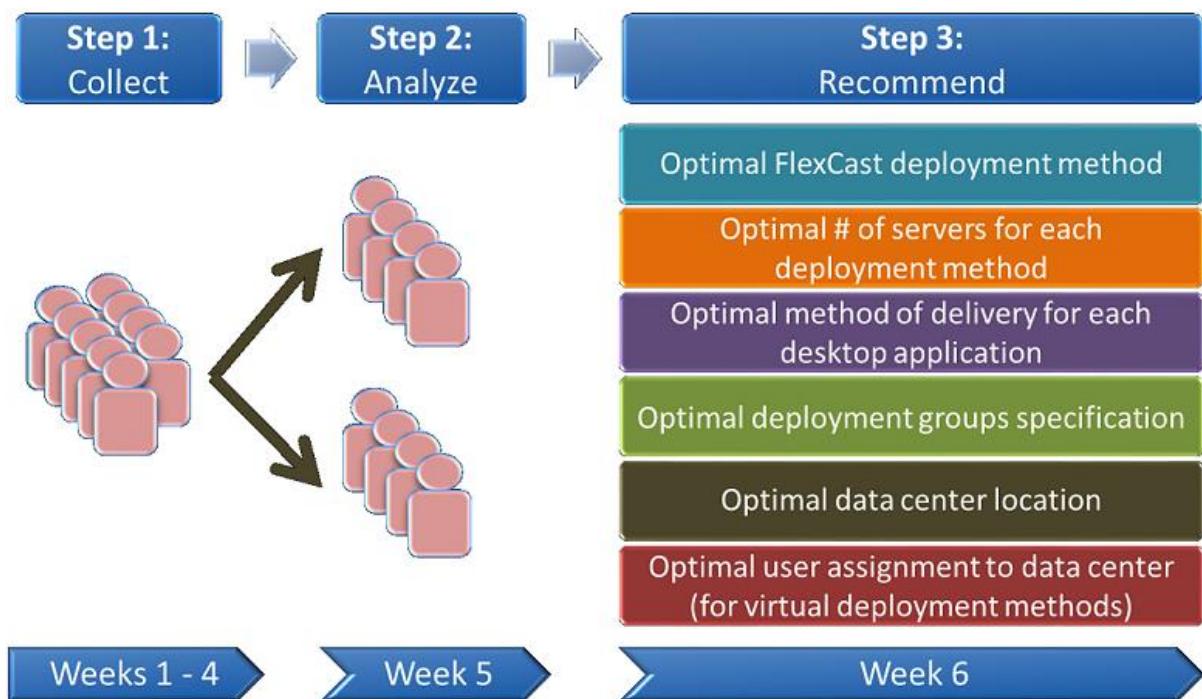
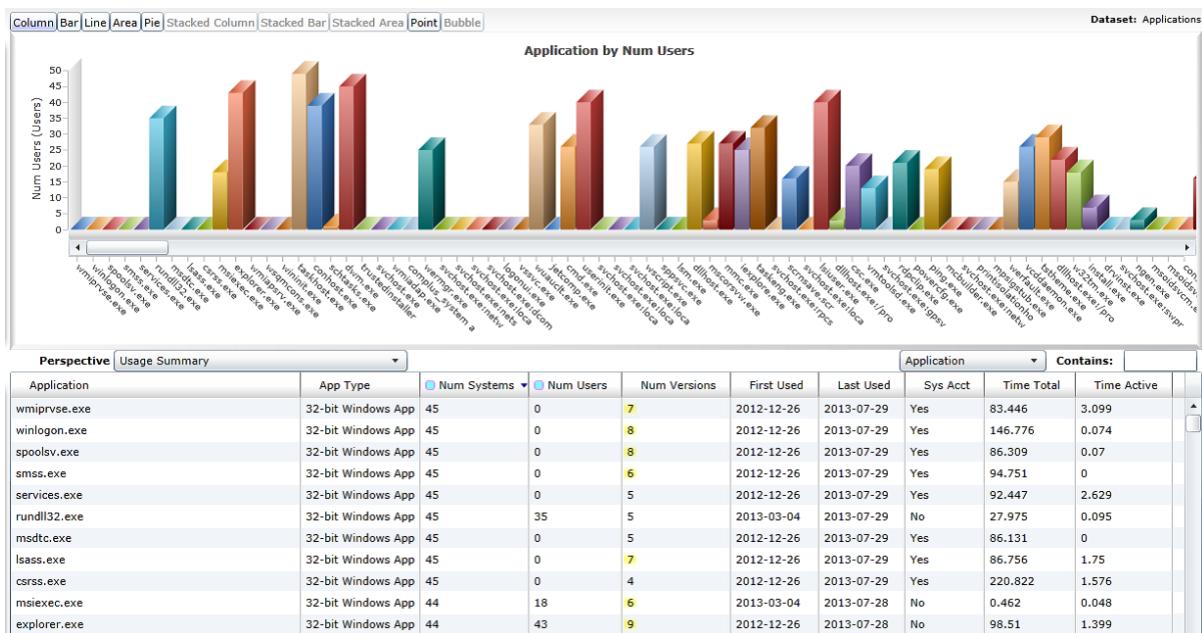


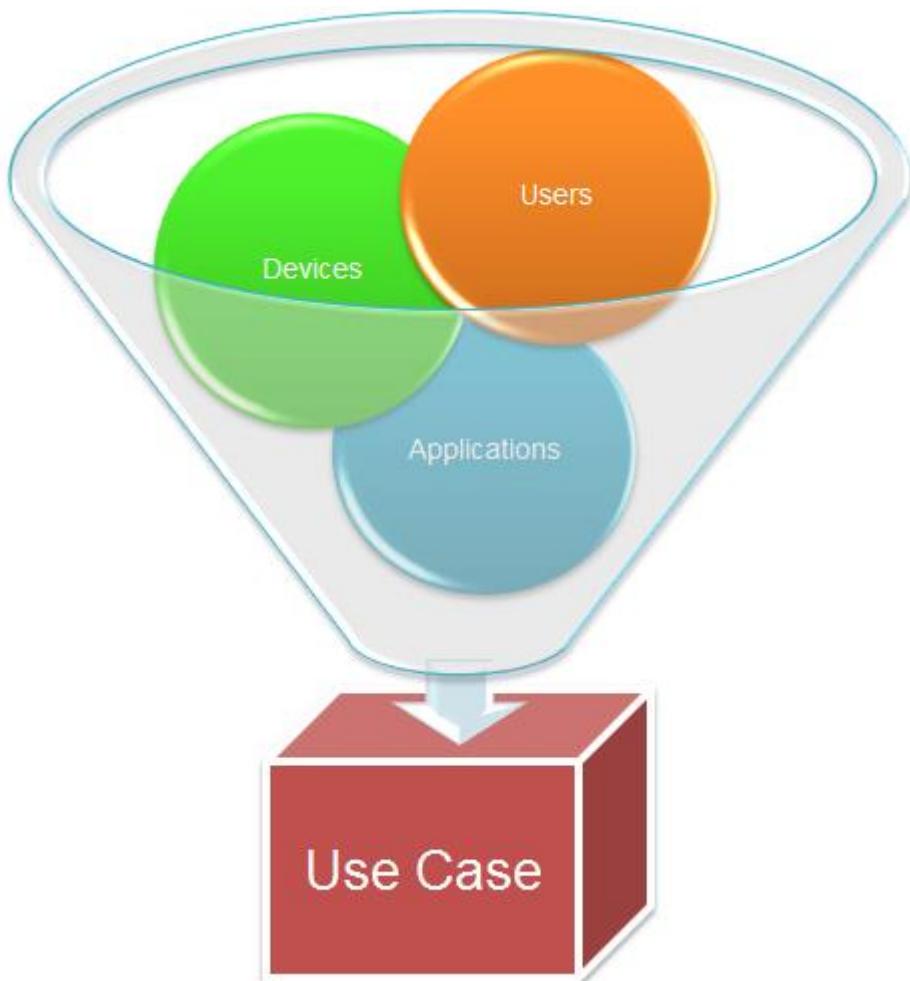
AppDNA Overview Report

Report :Overview Summary  
Selected Applications :23  
Application Group :Not Grouped

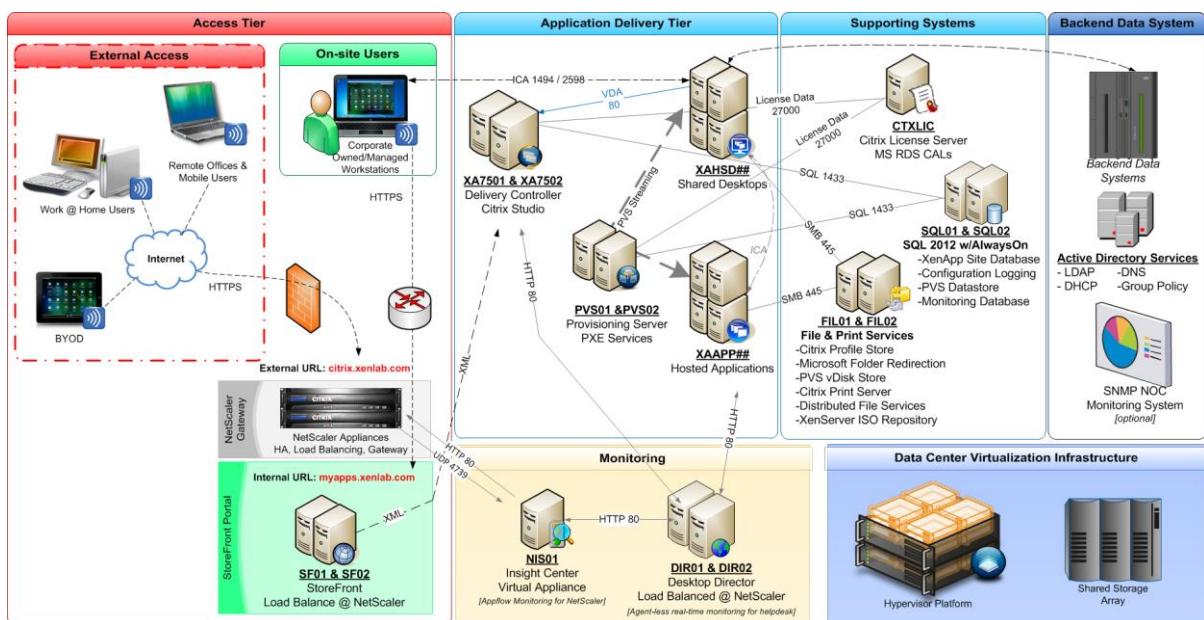
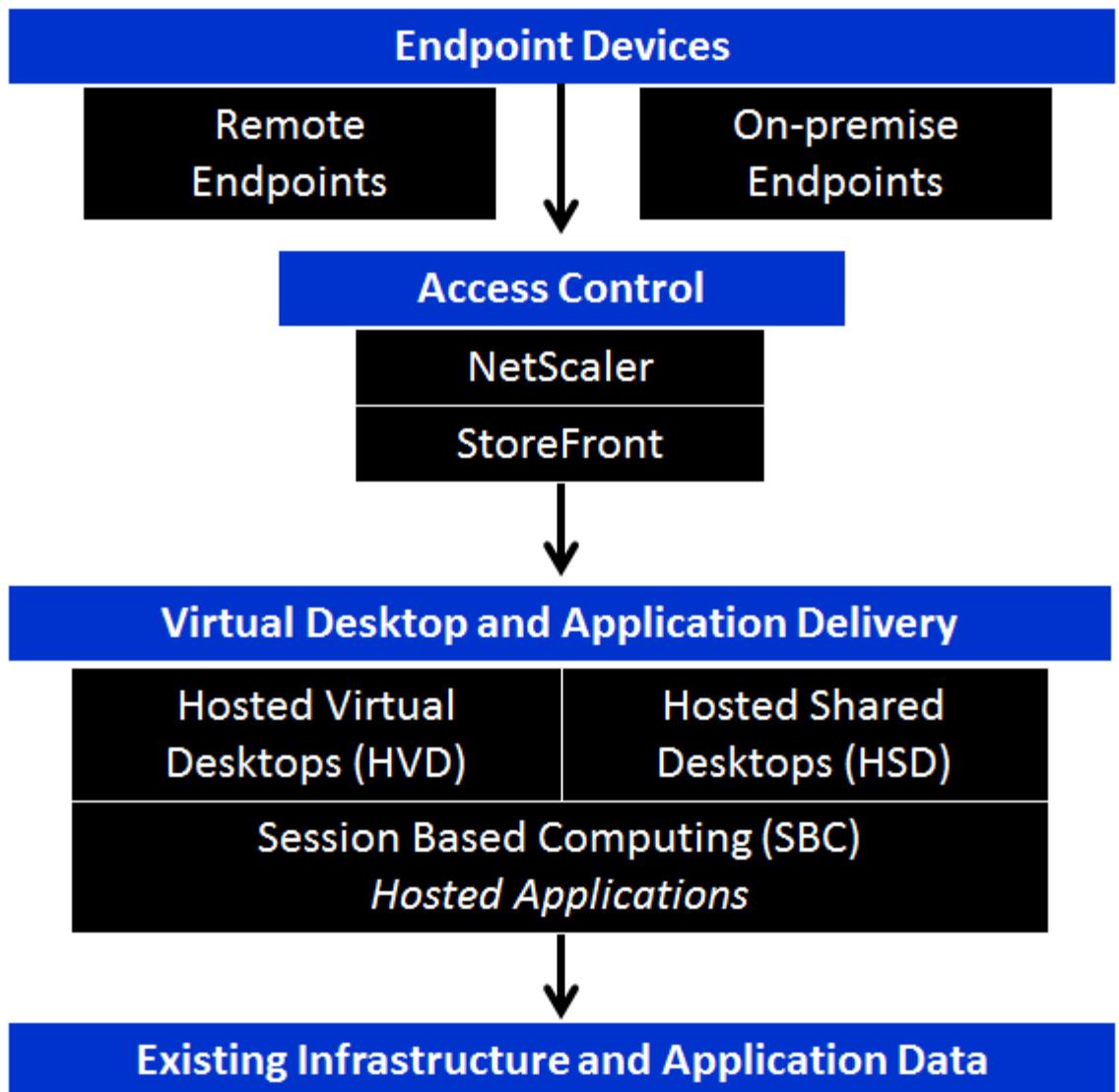
Export Print MHT HTML Excel

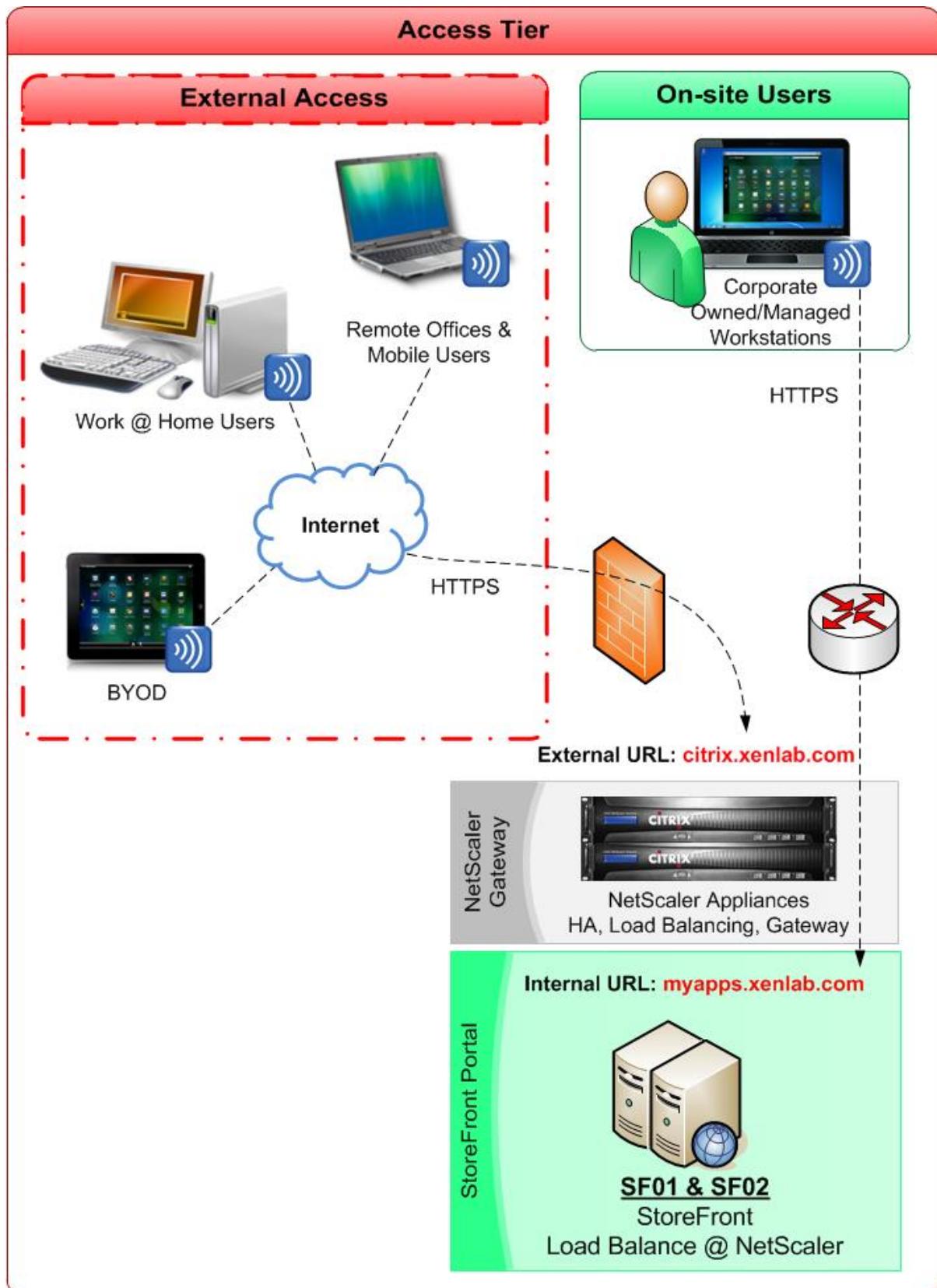
#	Application Name	Manufacturer	Version	Desktop Compatibility Manager	SBC Manager	Server Compatibility Manager	Virtualisation Manager	WebApp Compatibility Manager	64bit Manager	Complexity RAG	Overall RAG
1	Analysts_Notebook	i2	6.01	G	A	G	R	U	R	GG	GG
2	AR_Client	Remedy	5.1.1	G	A	G	A	U	G	U	A
3	AR_System	BMC Software	5.1.2	G	A	A	A	U	A	GG	A
4	avast! Antivirus	Alwil	4.7	R	R	R	R	U	R	GG	R
5	BBC	BBC	1.0.0.0	U	U	U	U	R	U	GG	R
6	BBC	BBC	1.0.0.0	U	U	U	U	R	U	GG	R
7	BBC Ticker	BBC	1.0.1.7	G	A	G	G	U	G	U	A
8	Cisco Systems VPN Client 4.7.00.0533	Cisco Systems, Inc.	4.6	G	R	G	R	U	R	GG	GR
9	DameWare NT Utilities	DameWare Development	3.72.0.0	R	A	R	A	U	R	U	R
10	Fireworks MX 2004	Macromedia	7.0	G	G	A	A	U	A	GG	A
11	Hardcopy Pro	Desksoft	2.21	G	G	G	G	U	G	U	G



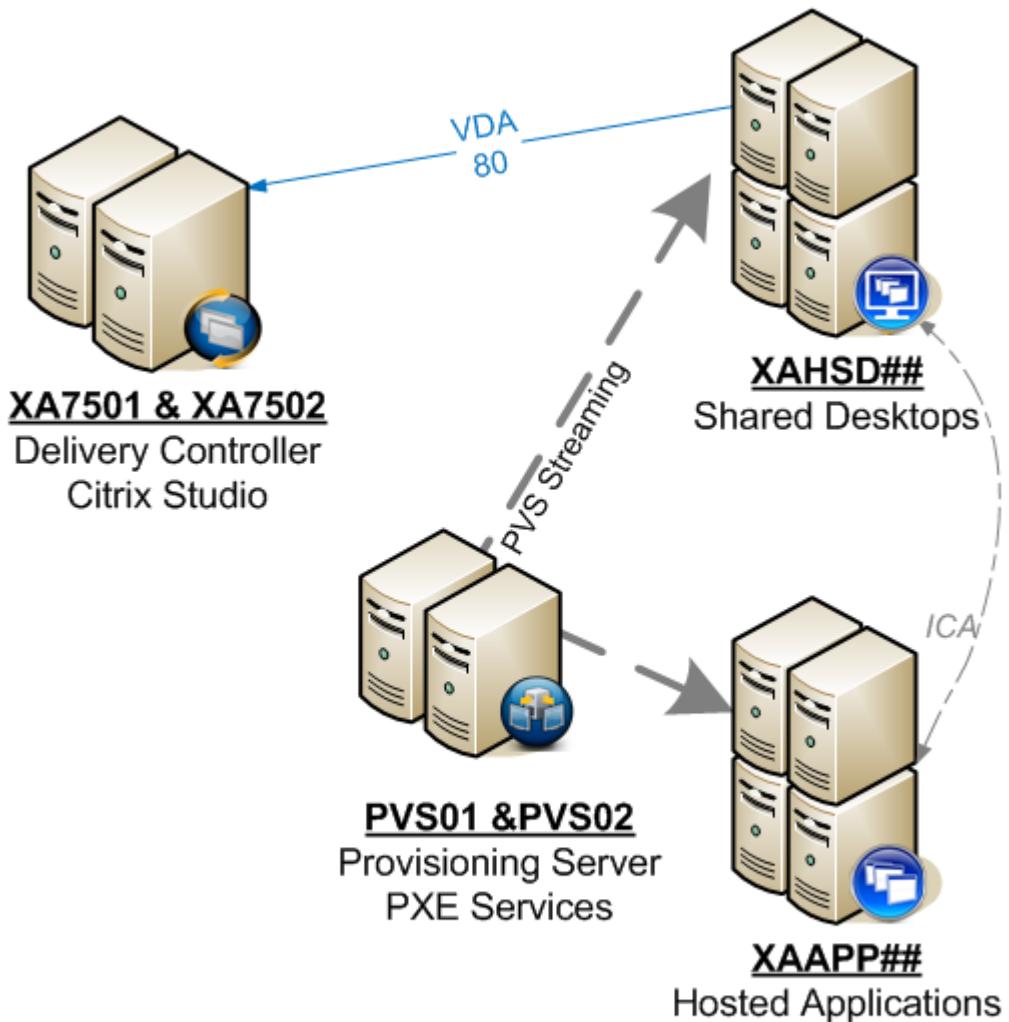


## Chapter 3





## Application Delivery Tier



## Supporting Systems



### CTXLIC

Citrix License Server  
MS RDS CALs



### SQL01 & SQL02

#### SQL 2012 w/AlwaysOn

- XenApp Site Database
- Configuration Logging
- PVS Datastore
- Monitoring Database



### FIL01 & FIL02

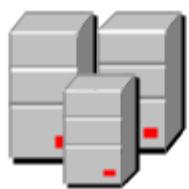
#### File & Print Services

- Citrix Profile Store
- Microsoft Folder Redirection
- PVS vDisk Store
- Citrix Print Server
- Distributed File Services
- XenServer ISO Repository

## Backend Data System

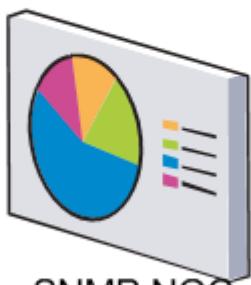


*Backend Data  
Systems*



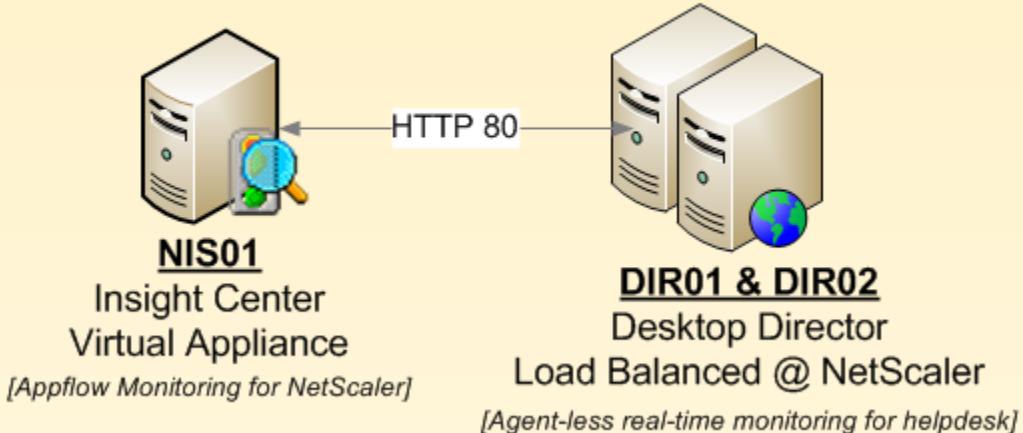
### Active Directory Services

- LDAP      -DNS
- DHCP      -Group Policy

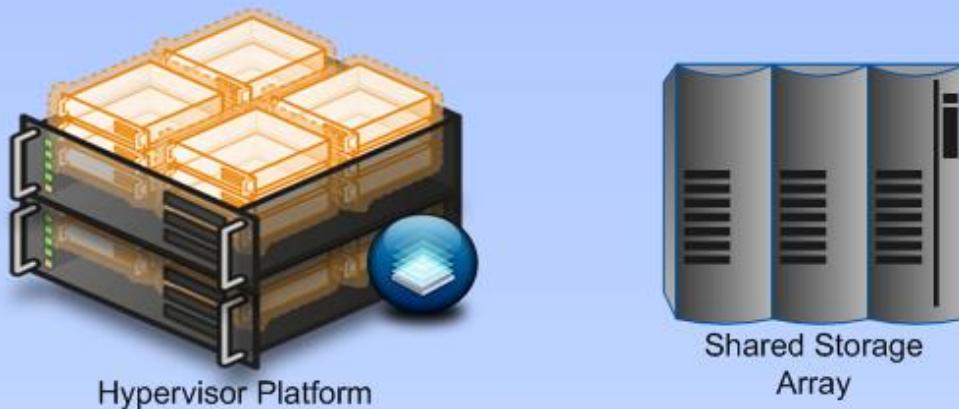


SNMP NOC  
Monitoring System  
*[optional]*

## Monitoring



## Data Center Virtualization Infrastructure



### Infrastructure Virtual Machine Requirements

Role	QTY	OS	vCPU	vRAM	VHD	IOPS	Notes
Citrix XenApp Controller	2	2012	2	4	40	15	All Management Consoles/Tools; XML, STA
Citrix StoreFront	2	2012	2	4	40	10	Citrix StoreFront, LB VIP
Citrix License Server	1	2012	2	4	40	10	All Licensing (CTX, RDS, KMS)
File Server	2	2012	2	4	40	50	File & Print Services, Network Shares
File Server Data	2				500		Folder Redirection, Profiles, vDisks, ISO
Desktop Director	2	2012	2	4	40	20	Director, LB VIP
Provisioning Services	2	2012	4	24	40	20	PVS, Shared HA
Microsoft SQL Server	2	2012	2	8	140	100	SQL 2012 w/Always On
NetScaler VPX 1000	2	NS 10.1	2	4	20	10	NetScaler Appliances
Insight Center	1	XEN	2	3	120	20	NetScaler Insight Appliance

Total VMs:	18
Est. # vCPUs	36
Est. vRAM	111
Estimated Storage (GB)	1880
Estimated IOPS	480

HOSTS	
Min #	1
Rec #	2

Physical Cores: 32  
Physical RAM: 256

Host Specs:
Model: Cisco UCS B200 M3 Blade
RAM: 128 GB
PROC: 2 Xeon E5-2680 (16 Cores // 32 Threads)
Storage: Tier 3 - SATA

Workload Virtual Machine Requirements							
Role	QTY	OS	vCPU	vRAM	VHD	IOPS	Notes
Citrix XenApp 7.5 HSD	25	2012	4	24	40	70	1 GB RAM/Session; 20 Sessions per VM
Citrix XenApp 7.5 APP	12	2012	4	24	40	120	.5 GB RAM/Session; 40 Sessions per VM
							40 GB Write Cache

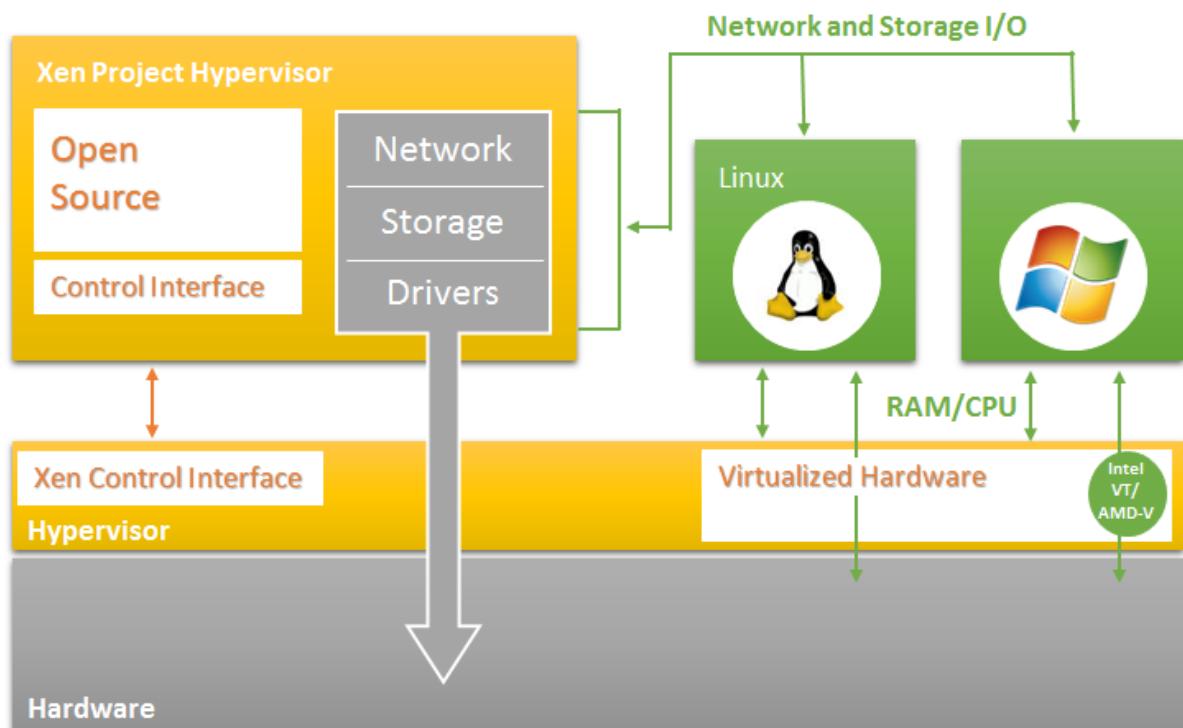
Total VMs:	37
Est. # vCPUs	148
Est. vRAM	888
Estimated Storage (GB)	1480
Estimated IOPS	3190

HOSTS	
Min #	5
Rec #	6

<b>Host Specs:</b>
Model: Cisco UCS B200 M3 Blade
RAM: 256 GB
PROC: 2 Xeon E5-2680 (16 Cores // 32 Threads)
Storage: Tier 2 - SSD

*Physical Cores:* 96  
*8 Users/Core:* 768  
*Physical RAM:* 1536  
*Target # HSD Users:* 500

Server	IP	CPU	RAM	HD	Role	Host / Pool	UCS Chassis
Router	192.168.1.1					Network Router/Default Gateway	
XS-001	192.168.1.2	Infrastructure Pool				XenServer Host	
XS-002	192.168.1.3					XenServer Host	
XS-003	192.168.1.4					XenServer Host	
XS-004	192.168.1.5					XenServer Host	
XS-005	192.168.1.6					XenServer Host	
XS-006	192.168.1.7					XenServer Host	
XS-007	192.168.1.8					XenServer Host	
XS-008	192.168.1.9					XenServer Host	
NS01	192.168.1.10	2	4	20	NetScaler VPX 1000	XS-001	NetScaler Appliances
NS02	192.168.1.11	2	4	20	NetScaler VPX 1000	XS-002	
SNIP	192.168.1.12					Subnet IP for NetScaler HA, 1-ARM Mode	
AUTH	192.168.1.14					LB VIP for Authentication	
SFLB	192.168.1.15					LB VIP for StoreFront	
CAG	192.168.1.16					VIP for Access Gateway	
DIRLB	192.168.1.17					LB VIP for Desktop Director	
NIS01	192.168.1.13	2	3	120	NetScaler Insight Server	Infrastructure	
AD01	192.168.1.18	2	2	30	Domain Controller	Infrastructure	Support Services
AD02	192.168.1.192	2	2	30	Domain Controller	Infrastructure	
FIL01	192.168.1.20	2	4	130	File & Print Services	Infrastructure	
FIL02	192.168.1.21					File & Print Services	
SQL01	192.168.1.22					SQL 2012	
SQL02	192.168.1.23	2	8	130	SQL 2012	Infrastructure	
CTXLIC	192.168.1.30	2	4	40	Citrix License Server	Infrastructure	
XA7501	192.168.1.31	2	4	40	XenApp 7.5 Controller	Infrastructure	Citrix Environment Infrastructure
XA7502	192.168.1.32	2	4	40	XenApp 7.5 Controller	Infrastructure	
DIR01	192.168.1.33	2	4	40	Desktop Director 2.1, Load Balanced	Infrastructure	
DIR02	192.168.1.34	2	4	40	Desktop Director 2.1, Load Balanced	Infrastructure	
PVS01	192.168.1.35	4	24	40	Provisioning Services 7, Shared HA	Infrastructure	
PVS02	192.168.1.36	4	24	40	Provisioning Services 7, Shared HA	Infrastructure	
SF01	192.168.1.37	2	4	40	StoreFront 2.5, Load Balanced	Infrastructure	
SF02	192.168.1.38	2	4	40	StoreFront 2.5, Load Balanced	Infrastructure	
XAHSD01	DHCP	4	24	40	Session Hosts: Desktops (streamed)	Workload	XenApp Hosted Shared Desktops
XAHSD02	DHCP	4	24	40	Session Hosts: Desktops (streamed)	Workload	
XAHSD03	DHCP	4	24	40	Session Hosts: Desktops (streamed)	Workload	
...	25 Total Streamed Servers					Workload	
XAHSD23	DHCP	4	24	40	Session Hosts: Desktops (streamed)	Workload	
XAHSD24	DHCP	4	24	40	Session Hosts: Desktops (streamed)	Workload	
XAHSD25	DHCP	4	24	40	Session Hosts: Desktops (streamed)	Workload	
XAAPP01	DHCP	4	24	40	Session Hosts: Application Servers (streamed)	Workload	XenApp Hosted Applications
XAAPP02	DHCP	4	24	40	Session Hosts: Application Servers (streamed)	Workload	
...	12 Total Streamed Servers					Workload	
XAAPP11	DHCP	4	24	40	Session Hosts: Application Servers (streamed)	Workload	
XAAPP12	DHCP	4	24	40	Session Hosts: Application Servers (streamed)	Workload	



Views: Server View

Search...

**XenCenter**

- XS-001
- XS-002
  - AD01.xenlab.com
  - dir02.xenlab.com
  - fil01.xenlab.com
  - nis01.xenlab.com
  - ns02.xenlab.com
  - pvs01.xenlab.com
  - sf01.xenlab.com
  - sql01.xenlab.com
  - xa1501.xenlab.com

**XenCenter**

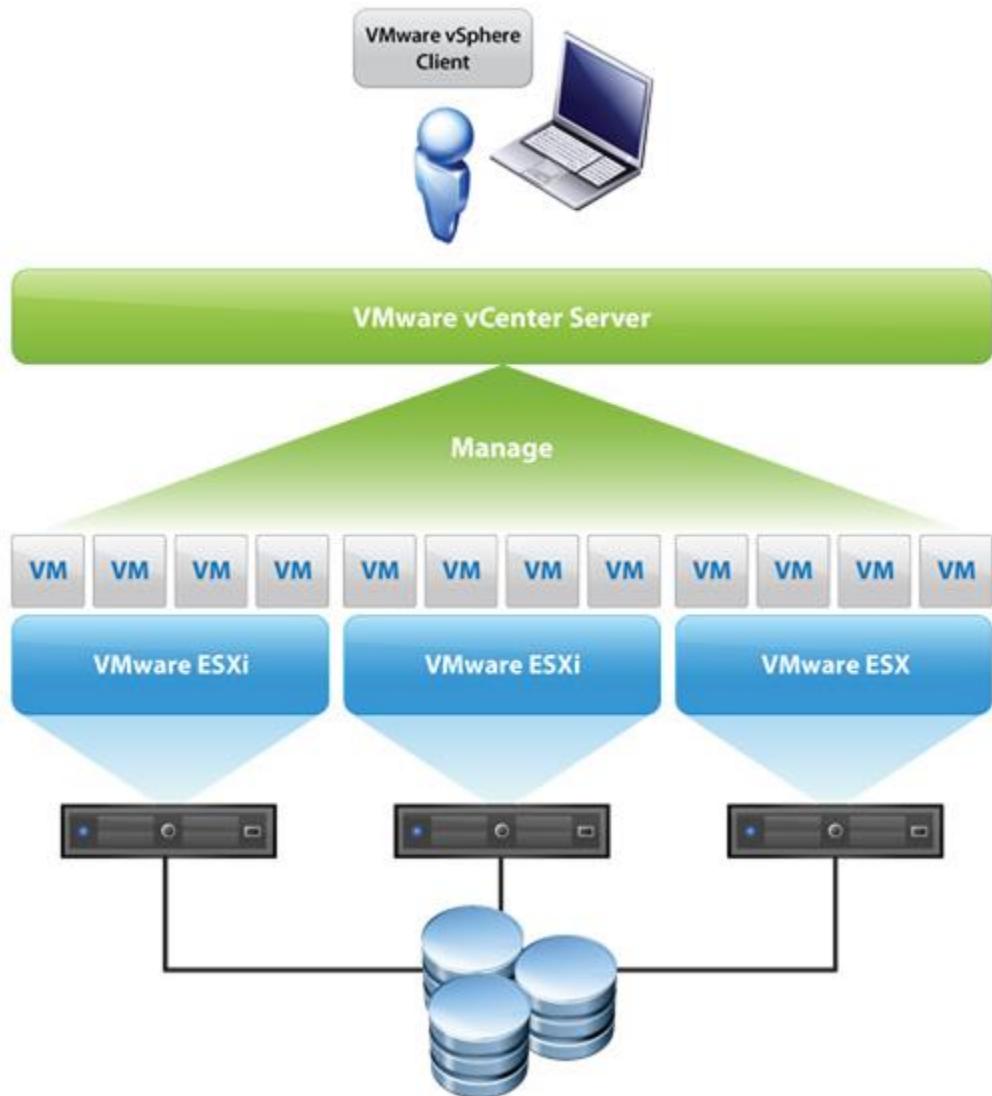
Home Search Tags Logs

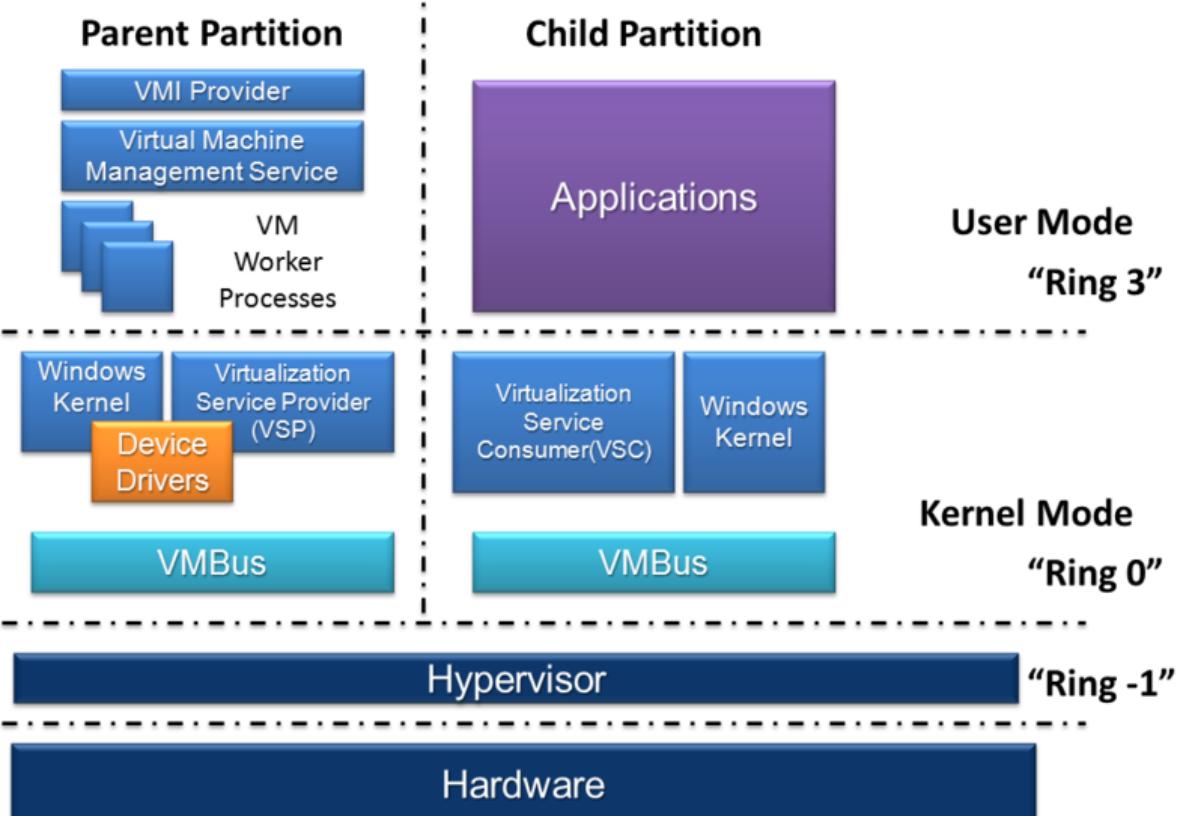
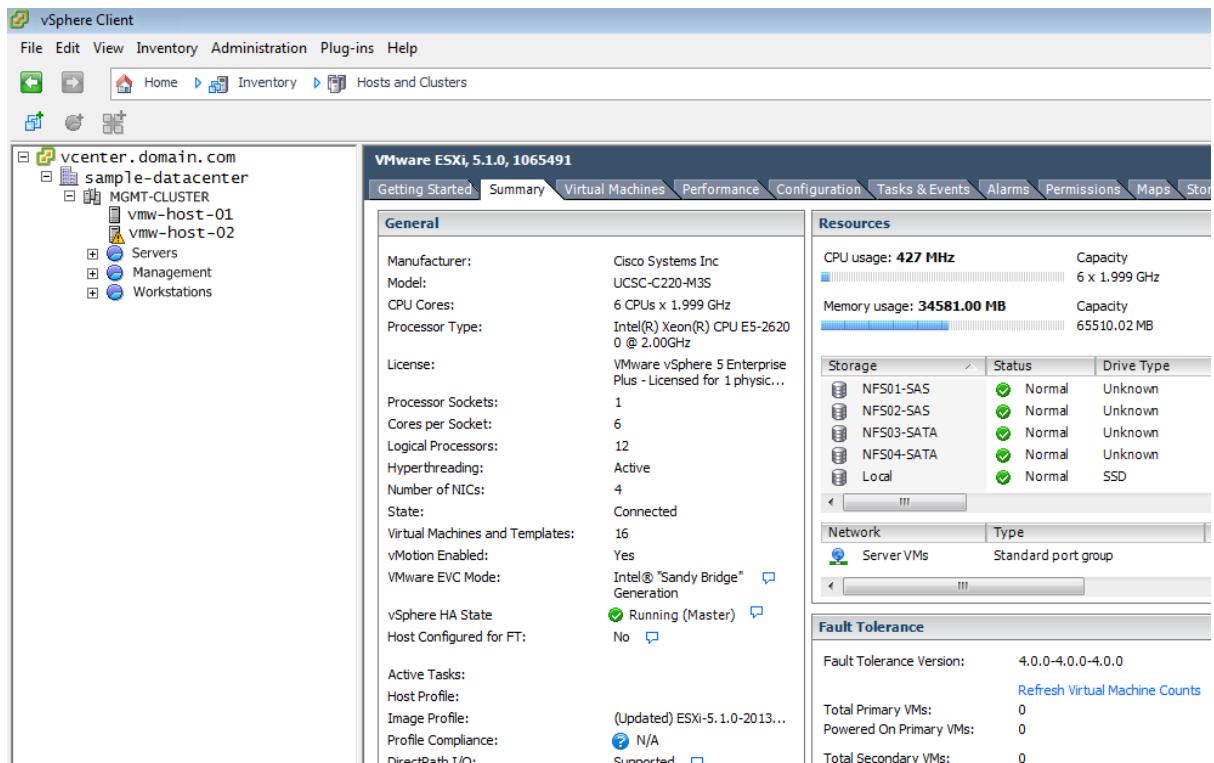
Overview

Search Options

**Name**

- XS-001
  - Default install of XenServer
  - AD02.xenlab.com 2008 R2 Domain Controller
  - ctxlic.xenlab.com Citrix License Server





Screenshot of the vSphere Web Client interface showing the 'Overview - Sample Cloud' screen.

**Top Navigation:**

- Home
- View
- Folder
- Create Service
- Create Virtual Machine
- Create Cloud
- Create Host Group
- Assign Cloud
- Cloud
- Overview (highlighted)
- VMs
- Services
- PowerShell
- Jobs
- PRO
- Show
- Window

**Left Sidebar:**

- Clouds
  - Sample Cloud
  - Customer Cloud
- All Hosts
- VMs and Services
- Fabric
- Library
- Jobs

**Right Panel - Overview - Sample Cloud:**

## Cloud Summary

Services and VMs

- Services: 0
- Virtual machines: 0

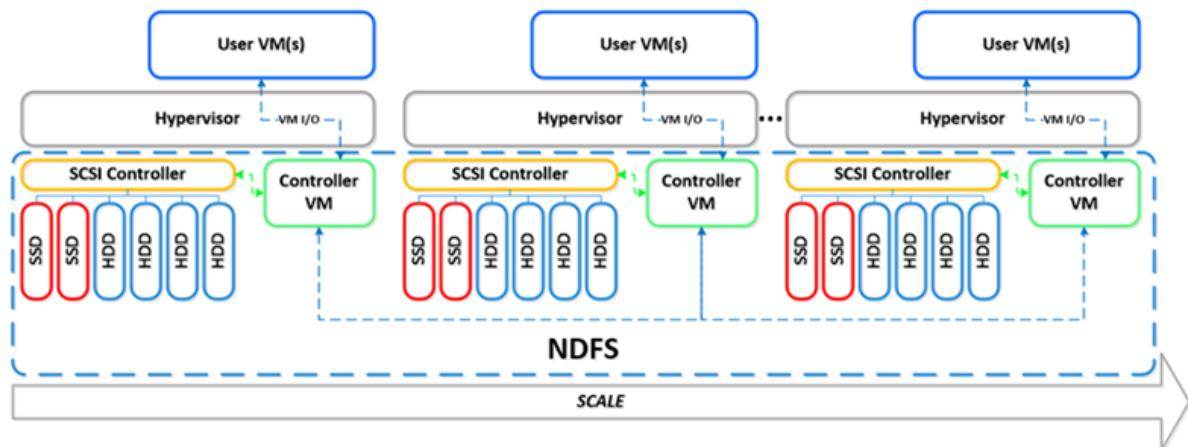
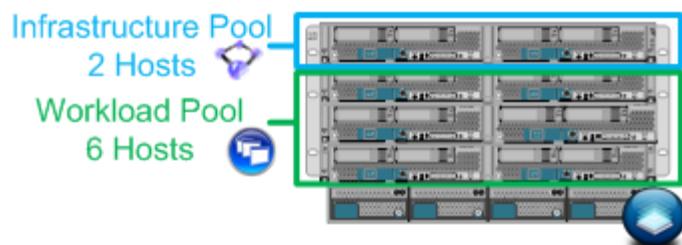
### Processor

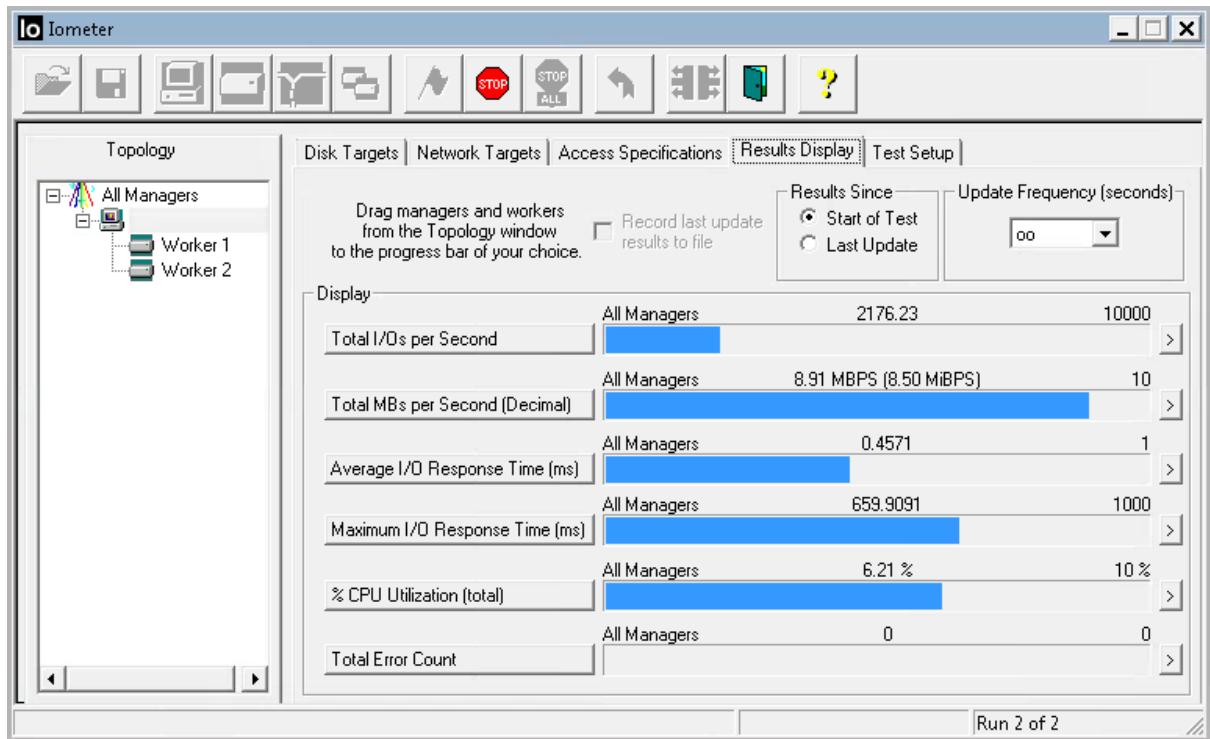
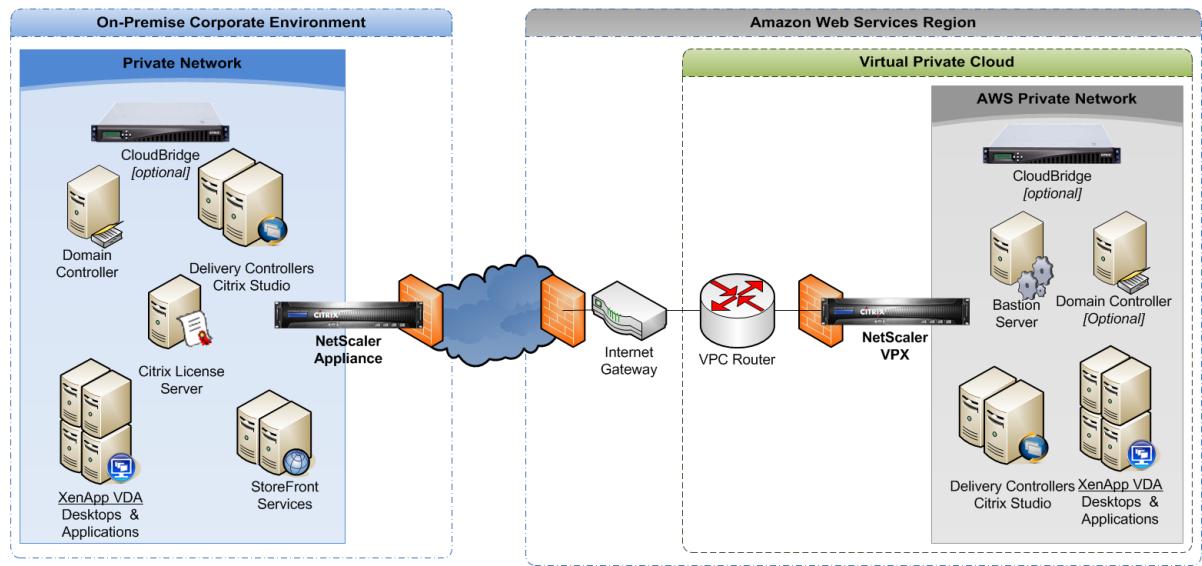
- Used: 0
- Available: 400
- Total: 400

## Cloud Quota and Usage

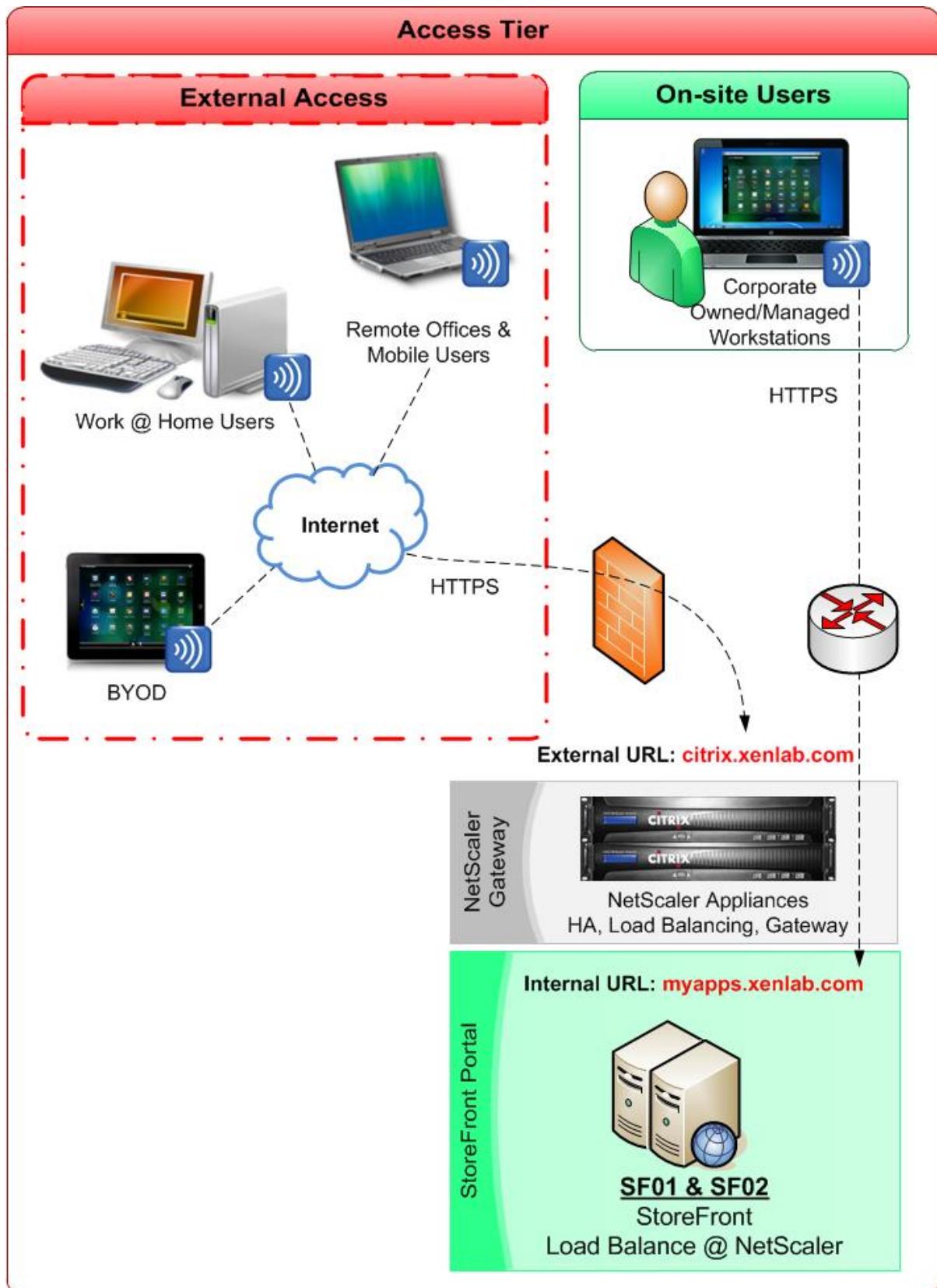
User roles and VM owners

Scope:





## Chapter 4



**Application Settings**

**Studio**

**Delivery**

Specify how this application will be delivered

**Application icon:**  [Browse...](#)

**Application category (optional):** VDIOnly

This is the category in Receiver

Add shortcut on user's desktop

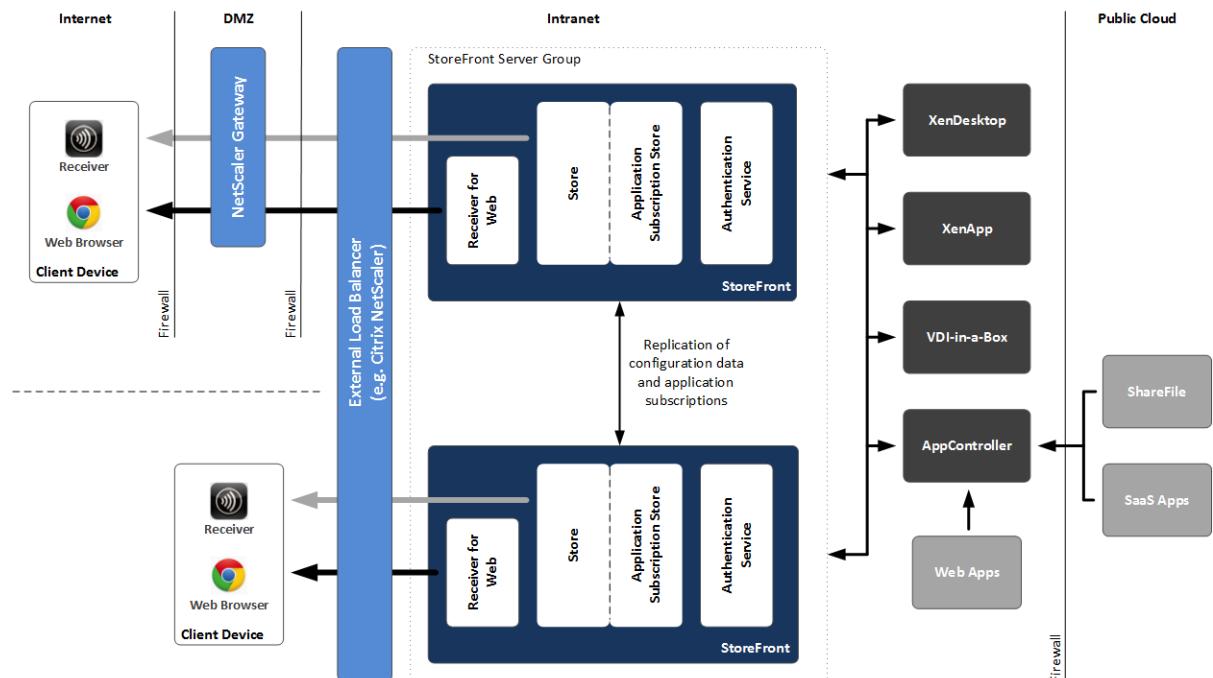
**Identification**

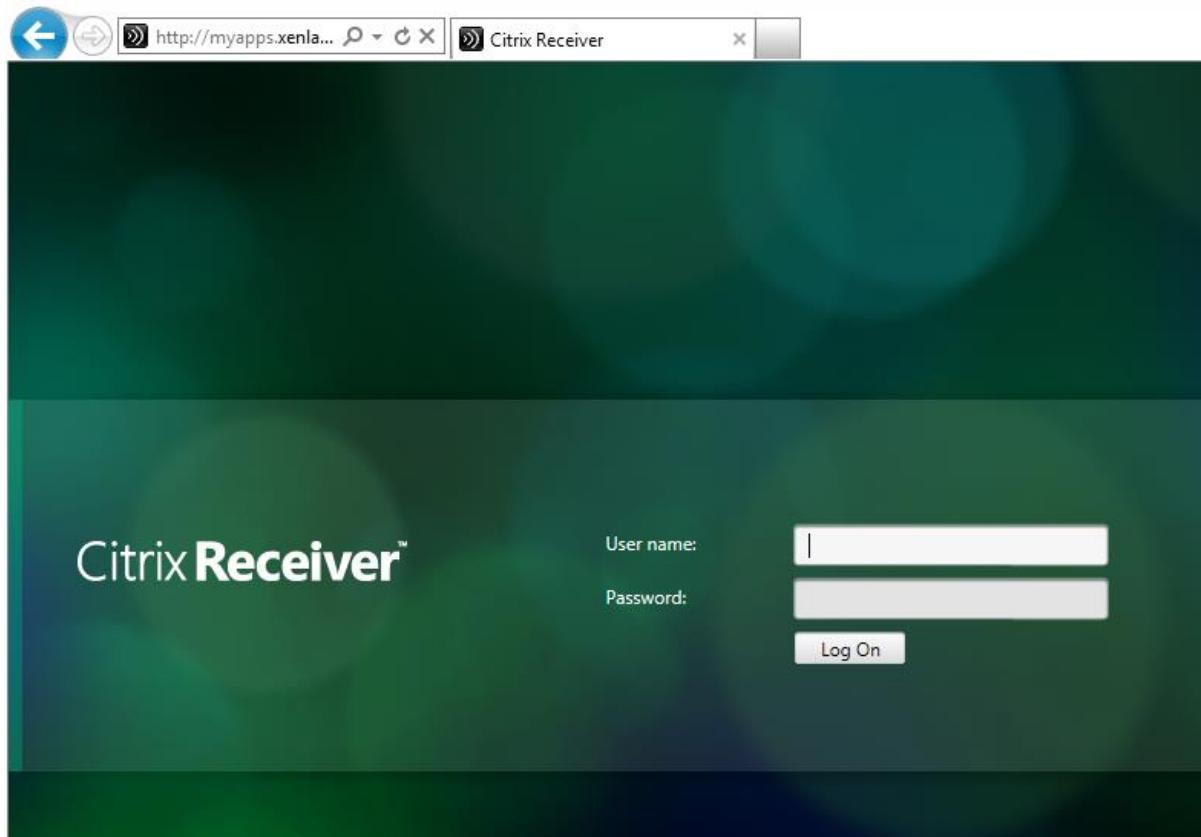
**Delivery**

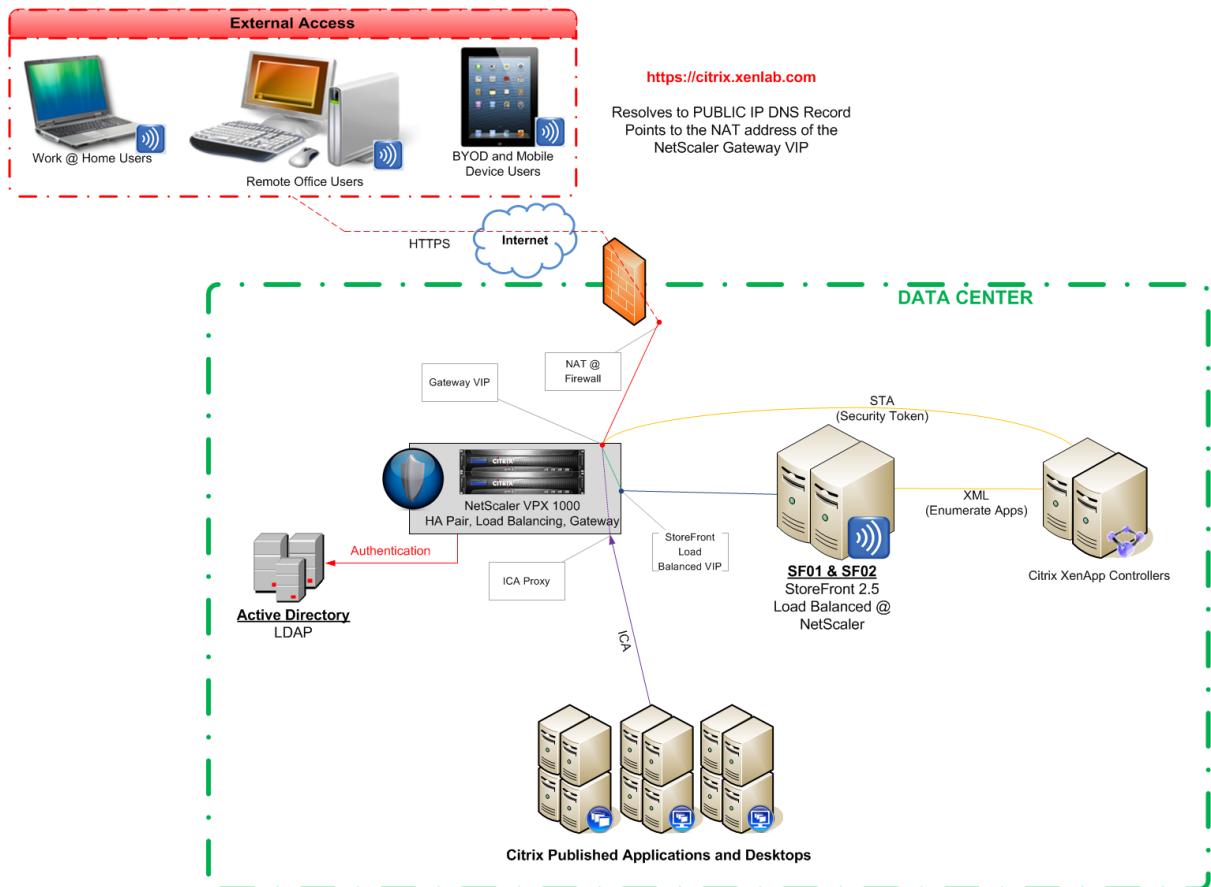
**Location**

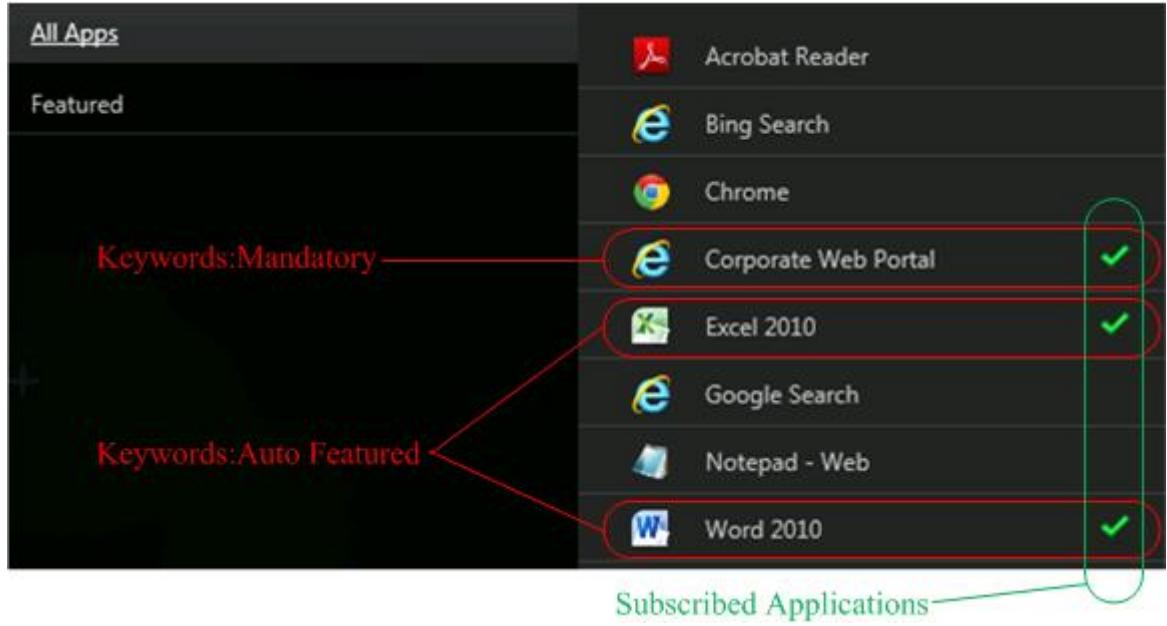
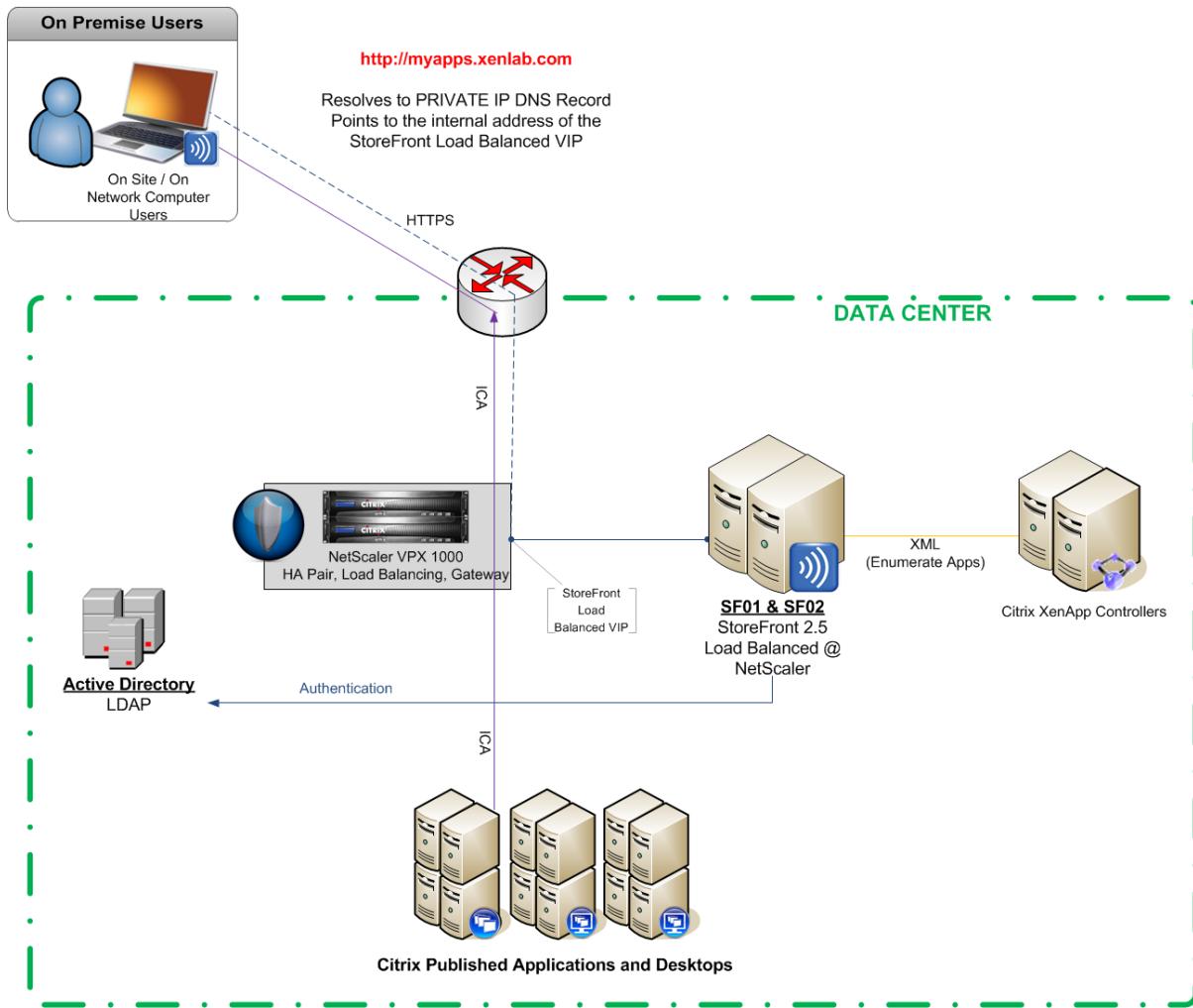
**Limit Visibility**

**File Type Association**









**Word 2010 - Application Properties**

Properties:		Name
<ul style="list-style-type: none"> <li>Basic           <ul style="list-style-type: none"> <li>Name</li> <li>Type</li> <li>Location</li> <li>Servers</li> <li>Users</li> <li>Shortcut presentation</li> </ul> </li>   <li>Advanced           <ul style="list-style-type: none"> <li>Access control</li> <li>Content redirection</li> <li>Limits</li> <li>Client options</li> <li>Appearance</li> </ul> </li> </ul>		<p>Display name: Word 2010</p> <p>Application name: Word 2010</p> <p><input type="checkbox"/> Disable application</p> <p><input type="checkbox"/> Hide disabled application</p> <p>Application description: KEYWORDs:Auto Featured</p>

**Studio**

Identification	
Identification	Identify this application.
Delivery	Application name (for user): Word 2010
Location	Application name (for administrator): Word 2010
Limit Visibility	Description and keywords: Keywords:Auto Featured
File Type Association	This is the description that will be seen by the user.



Delivery Groups	Applications (9)
Name	Description
Acrobat Reader 10	
Bing Search	
Chrome	
Corporate Web Portal	Keywords:Mandatory
Excel 2010	Keywords:Auto Featured
Google Search	
Notepad - VDI	Keywords:VDIOnly
Notepad - Web	#WebOnly
Word 2010	Keywords:Auto Featured



```

inetd cron httpd monit sshd .

!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 []: 192.168.1.10
Enter Netmask []: 255.255.255.0
Enter Gateway IPv4 address []: 192.168.1.1

-----
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://192.168.1.10 to complete or change the Netscaler configuration.

1. NetScaler's IPv4 address [192.168.1.10]
2. Netmask [255.255.255.0]
3. Gateway IPv4 address [192.168.1.1]
4. Save and quit
Select item (1-4) [4]: 

```

NetScaler VPX (1000)

Host Name: 192.168.1.10(ns01) Version: NS10.1: Build 119.7.nc

Dashboard Configuration Reporting

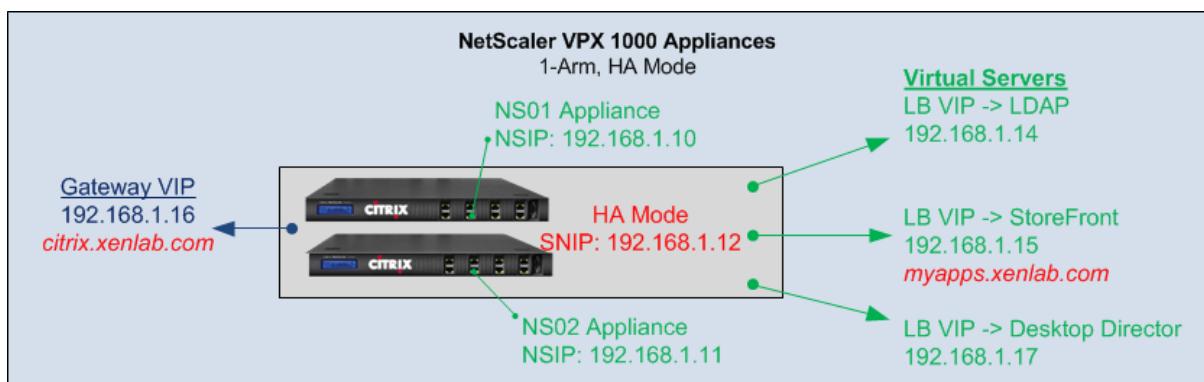
System Information

System IP: 192.168.1.10  
Netmask: 255.255.255.0  
Number of Mapped IP(s):

- Node: Primary
- Time Zone: GMT-04:00-EDT-America/Kentucky/Louisville
- System Time: Mon, 7 Oct 2013 15:02:13 EDT
- Last Config Changed Time: Thu, 19 Sep 2013 11:47:14 EDT
- Last Config Saved Time: Mon, 16 Sep 2013 20:23:41 EDT

Hardware Information

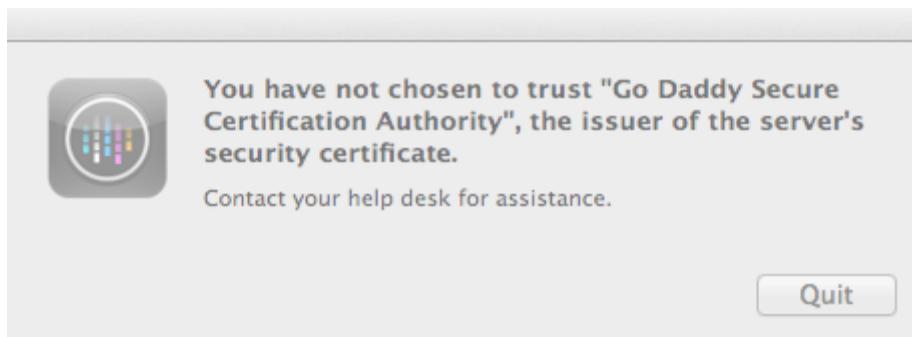
Platform: NetScaler Virtual Appliance 450000  
Manufactured on: 2/17/2009  
CPU: 2796 MHZ  
Host Id: 4ab7b3be112d  
Serial no: HE2H91SCZ6  
Encoded serial no: 98310000cb254307ee78



NetScaler > Traffic Management > Load Balancing > Virtual Servers

Name	State	Effective State	IP Address	Traffic Domain ID	Port	Protocol	Method	Persistence	% Health
StoreFront-LB	Up	Up	192.168.1.15	0	80	HTTP	LEAST CONNECTION	SOURCEIP	100.00% 2 UP/0 DOWN
	Port	80	Protocol	HTTP		Effective State	UP	Last state change was at	Tue Oct 8 19:48:52 2013
	Time since last state change	0d 00:00:23:780	Client idle time-out(sec)	180		Down State Flush	ENABLED	Disable Primary When Down	DISABLED
	Health Threshold	0	L2 Connection	OFF		Spillover Method	NONE	Spillover Persistence	DISABLED
	AppFlow Logging	ENABLED	Redirect Port Rewrite	DISABLED	Number of Bound Services	2 (2 Active)	Configured Method	LEAST CONNECTION	
	New Service Startup Request Rate	0 PER_SECOND	Increment Interval	0	Reason	4	Redirection Mode	IP	
	Persistence	SOURCEIP	IPv4 Netmask	255.255.255.255	IPv6 Mask Length	128	Persistence Time-out (mins)	2	
	Backup Persistence	NONE	Backup Time-out	2	PQ	OFF	Sure Connect	OFF	
	Cache Redirection	NO	Sessionless	DISABLED	Connection Failover	DISABLED	VServer IP Port Insertion	OFF	
	RTSP Natting	OFF	Authentication	OFF	401 Based Authentication	OFF	Push	DISABLED	
	Push Multiple Clients	NO	Push Label Rule	none	ICMP VServer Response	PASSIVE	Skip Persistence	None	
	Minimum Autoscale Members	0	Maximum Autoscale Members	0					
LDAD-LB	Up	Up	192.168.1.14	0	389	TCP	LEAST CONNECTION	SOURCEIP	100.00% 2 UP/0 DOWN

25 Per Page | 1 - 2 of 2 | 1



Configure NetScaler Gateway Virtual Server

Name*	XenLab Gateway	IP Address*	192 . 168 . 1 . 16
Protocol*	SSL	Port*	443
<input type="checkbox"/> Network VServer	Range 1	Failed Login Timeout	
<input checked="" type="radio"/> SmartAccess Mode	<input type="radio"/> Basic Mode	<input type="checkbox"/> AppFlow Logging	<input type="checkbox"/> Down state flush
<input type="checkbox"/> Double Hop			
		Max Users	0
		Max Login Attempts	

Certificates | Authentication | Bookmarks | Policies | Intranet Applications | Intranet IPs | Published Applications | Advanced

Session | Traffic | Auditing | Pre-authentication | Clientless | Cache | Responder | Rewrite (Request) | AppFlow (Request)

Priority Policy Name Expression Profile

100	Receiver	REQ.HTTP.HEADER User-Agent CONTAINS CitrixReceiver    REQ.HTTP.H...	ReceiverPolicy
-----	----------	---	----------------

Configure NetScaler Gateway Session Policy

Name\* Receiver

Request Profile\* ReceiverPolicy

Expression

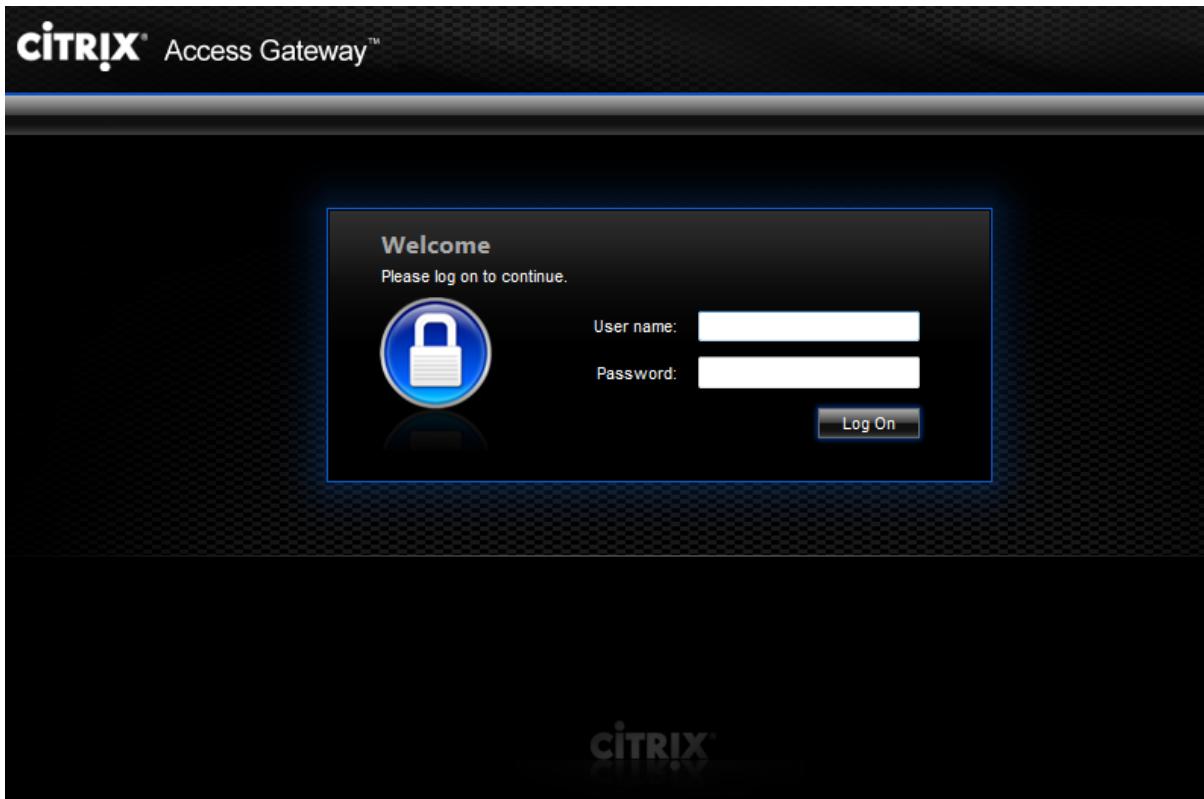
REQ.HTTP.HEADER User-Agent CONTAINS CitrixReceiver REQ.HTTP.HEADER X-Citrix-Gateway EXISTS
---

Match Any Expression Add... Modify... Remove AND OR (+) (+) (-) (-)

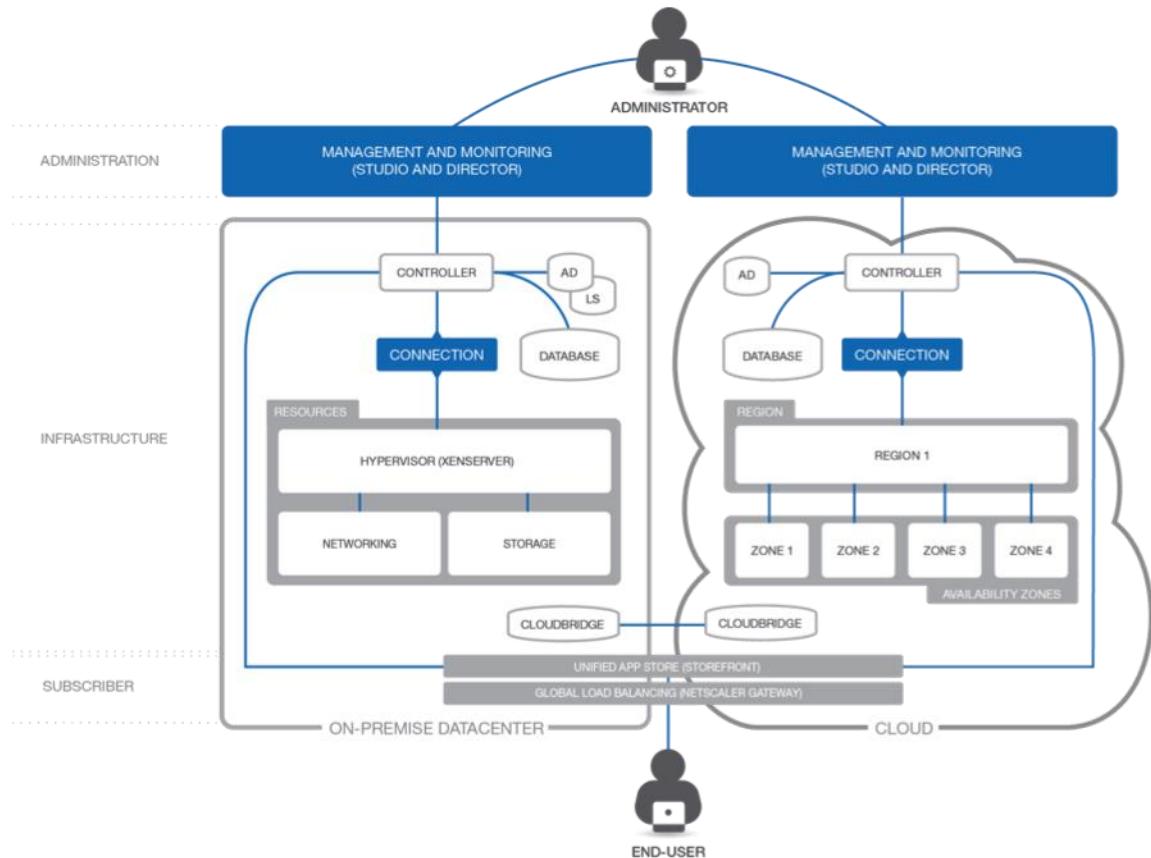
Named Expressions General Client is from different geographical reg... Add Expression

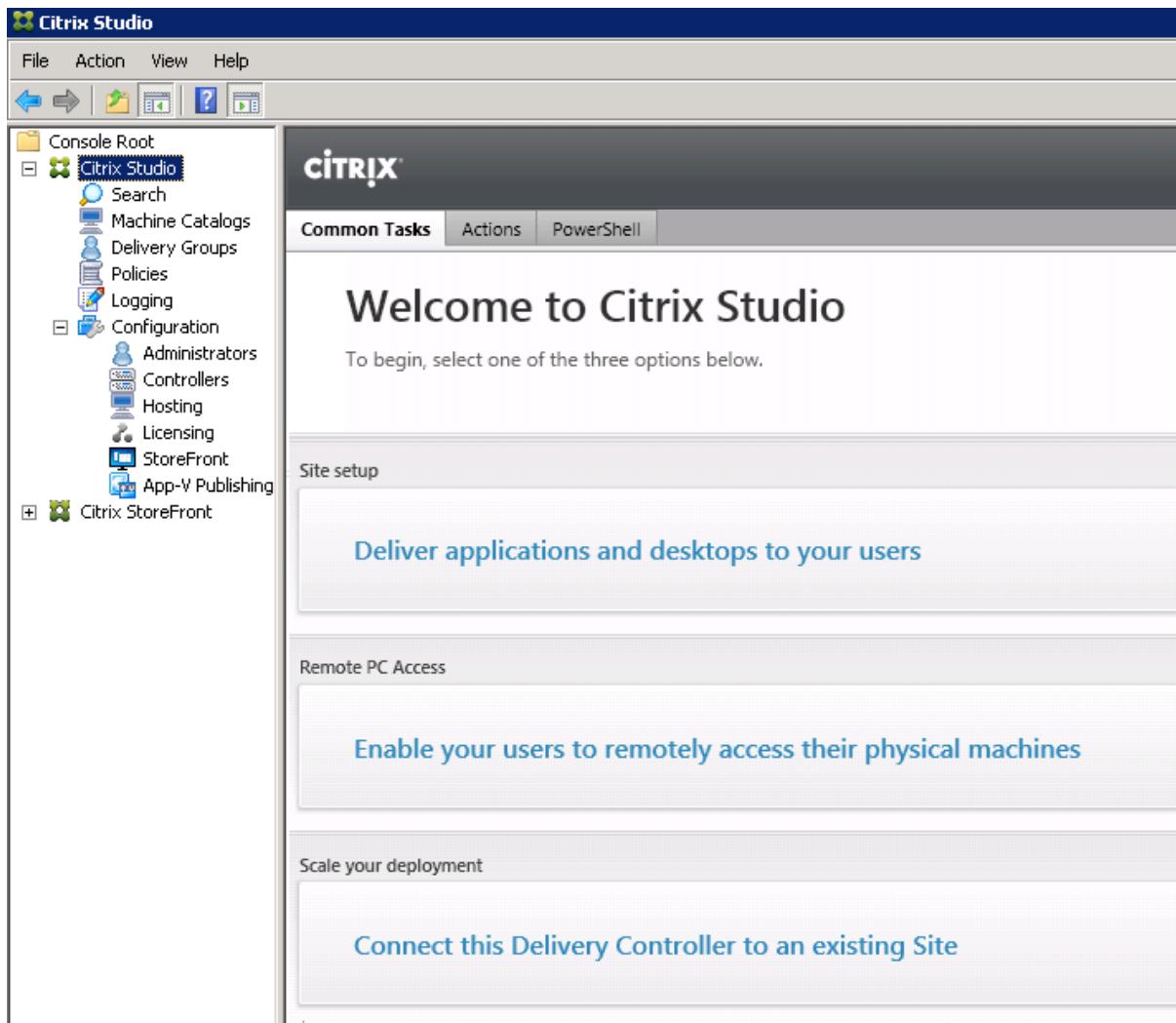
Preview Expression ns\_farcclient

OK Close OK Close



## Chapter 5





## XenApp 7.5

✓ Licensing Agreement

### Core Components

Features

Firewall

Summary

Install

Finish

### Core Components

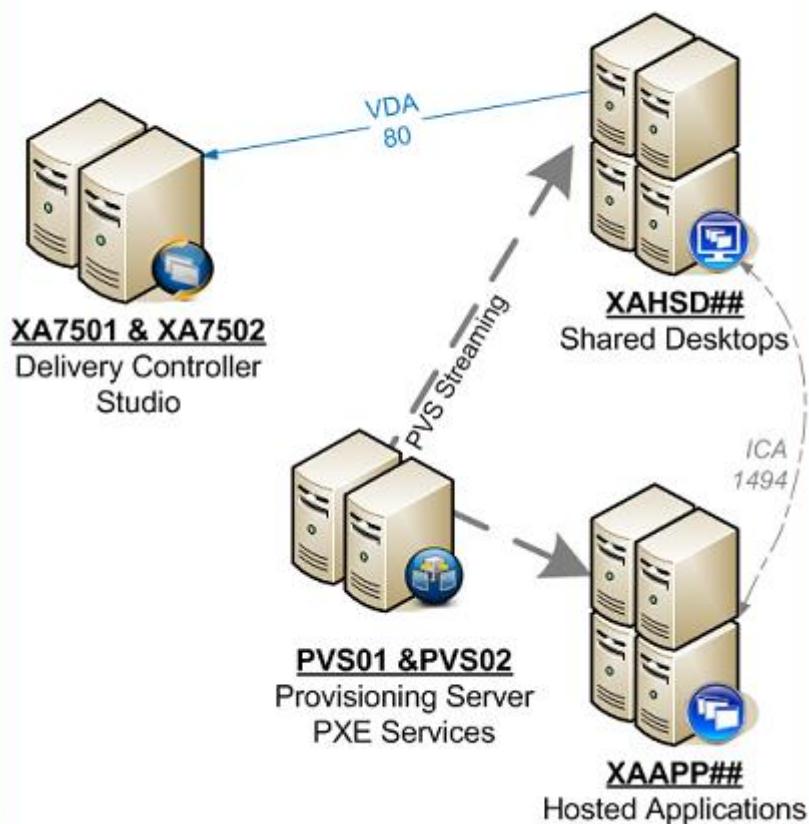
For scale and performance reasons, it is recommended that Director and the License Server be installed on separate servers.

Location: C:\Program Files\Citrix

#### Component (Select all)

- Delivery Controller**  
Distributes applications and desktops, manages user access, and optimizes connections.
- Studio**  
Create, configure, and manage infrastructure components, applications, and desktops.
- Director**  
Monitor performance and troubleshoot problems.
- License Server**  
Manages product licenses.
- StoreFront**  
Provides authentication and resource delivery services for Citrix Receiver, enabling you to create centralized enterprise stores to deliver applications, desktops, and other resources to users on any device, anywhere.

### Application Delivery Tier





The image shows the XenApp 7.5 installation interface. The title "XenApp 7.5" is at the top. The interface is divided into three main sections: "Get Started", "Prepare Machines and Images", and "Extend Deployment".

- Get Started:** This section is highlighted with a red box. It contains the "Delivery Controller" option, which is described as "Start here. Select and install the Delivery Controller and other essential services like License Server and StoreFront".
- Prepare Machines and Images:** This section contains the "Virtual Delivery Agent for Windows Server OS" option, which is described as "Install this agent to deliver applications and desktops from server-based VMs or physical machines".
- Extend Deployment:** This section contains several options:
  - Citrix Director
  - Citrix License Server
  - Citrix StoreFront
  - Citrix Studio
  - Universal Print ServerEach option has a "More Info" link next to it.

At the bottom, there is a "Services and Support" section with links to "eDocs" and "Knowledge Center". A "Cancel" button is located in the bottom right corner.

**XenApp 7.5**

✓ Licensing Agreement

**Core Components**

Features

Firewall

Summary

Install

Finish

**Core Components**

For scale and performance reasons, it is recommended that Director and the License Server be installed on separate servers.

Location: C:\Program Files\Citrix

<input type="checkbox"/>	Component (Select all)
<input checked="" type="checkbox"/>	<b>Delivery Controller</b> Distributes applications and desktops, manages user access, and optimizes connections.
<input checked="" type="checkbox"/>	<b>Studio</b> Create, configure, and manage infrastructure components, applications, and desktops.
<input type="checkbox"/>	<b>Director</b> Monitor performance and troubleshoot problems.
<input type="checkbox"/>	<b>License Server</b> ⚠ This component must be installed at least once.
<input type="checkbox"/>	<b>StoreFront</b> ⚠ This component must be installed at least once.

**XenApp 7.5**

✓ Licensing Agreement

✓ Core Components

**Features**

Firewall

Summary

Install

Finish

**Features**

<input checked="" type="checkbox"/>	Feature (Select all)
<input type="checkbox"/>	<b>Install Microsoft SQL Server 2012 Express</b> This is an optional component. If you have an existing SQL Server for storing desktop and application configurations and settings, do not select this option.
<input checked="" type="checkbox"/>	<b>Install Windows Remote Assistance</b> Select this only if you need the shadowing feature of Director Server.

Delivery Controller	Director	License Server	StoreFront
80 TCP 443 TCP	80, 443 TCP	7279 TCP 27000 TCP 8083 TCP 8082 TCP	80, 443 TCP

**XenApp 7.5**

**Finish Installation**

The installation completed successfully. ✓ Success

Prerequisites	
✓ Microsoft .NET Framework 4.5.1	Installed
✓ Microsoft Visual x64 C++ 2008 Runtime	Installed

Core Components	
✓ Delivery Controller	Installed
✓ Studio	Installed

Post Install	
✓ Component Initialization	Initialized

Launch Studio

Back Finish

## Welcome to Citrix Studio

To begin, select one of the three options below.

**Site setup**

**Deliver applications and desktops to your users** ←

**Site Setup**

**Studio**

**Introduction**

Database  
Licensing  
Connection  
Network  
Storage  
App-V Publishing  
Summary

**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:  
*Example: LondonSales*

Back    Next    Cancel

**Site Setup**

**Studio**

✓ Introduction  
**Database**  
Licensing  
Connection  
Network  
Storage  
App-V Publishing  
Summary

**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)

Back    Next    Cancel

**Site Setup**

## Studio

- ✓ Introduction
- ✓ Database
- Licensing**
- Connection
- Network
- Storage
- App-V Publishing
- Summary

### Licensing

License server address:

Connected to trusted server [View certificate](#)

I want to:

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.

Product	Model
<input checked="" type="radio"/> Citrix XenDesktop Platinum	Concurrent
<input type="radio"/> Citrix XenDesktop Platinum	User/Device

**Site Setup**

## Studio

- ✓ Introduction
- ✓ Database
- ✓ Licensing
- Connection**
- Network
- Storage
- App-V Publishing
- Summary

### Connection

Select a Connection type. If machine management is not used (for example when using physical hardware), select 'No machine management.'

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

## Site Setup

### Studio

- ✓ Introduction
- ✓ Database
- ✓ Licensing
- ✓ Connection

#### Network

- Storage
- App-V Publishing
- Summary

### Network

Name for these resources:

The resources name helps identify this storage and network combination in Studio.

Select one or more networks for the virtual machines to use:

Name
<input checked="" type="checkbox"/> Bond 0+1
<input type="checkbox"/> Network 2
<input type="checkbox"/> Network 3
<input type="checkbox"/> Network 4
<input type="checkbox"/> Network 5

**Site Setup**

**Studio**

**Storage**

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

Name
<input checked="" type="checkbox"/> Local storage on XS-001

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

Use same storage for virtual machines and Personal vDisks

Use different storage for Personal vDisks

[Select storage...](#) (None selected)

[Back](#) [Next](#) [Cancel](#)

**Site Setup**

**Studio**

**Summary**

Site name:	XenLab
Database server:	LABSQL\XENSQL
Database name:	CitrixXenLab
License server:	ctxlic:27000
Connection type:	Citrix XenServer®
Connection address:	http://192.168.1.3
Connection name:	Citrix Lab
Create virtual machines with:	Studio tools (Machine Creation Services)
Networks:	Network 0
Virtual Machine storage:	Local storage on XS-001
Personal vDisk storage:	Use same storage as Virtual Machines
App-V:	Not configured

[Back](#) [Finish](#) [Cancel](#)

## Site Setup

Follow these steps to set up and deploy your virtual desktop infrastructure.

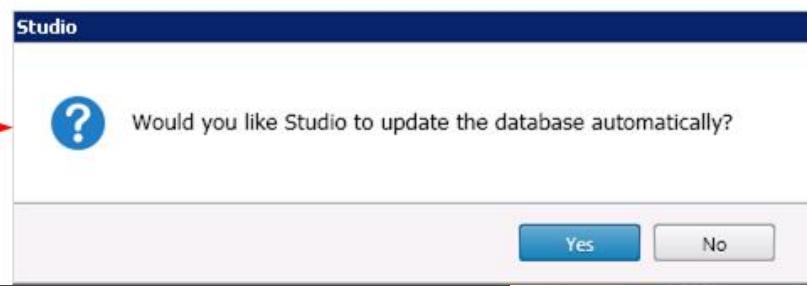
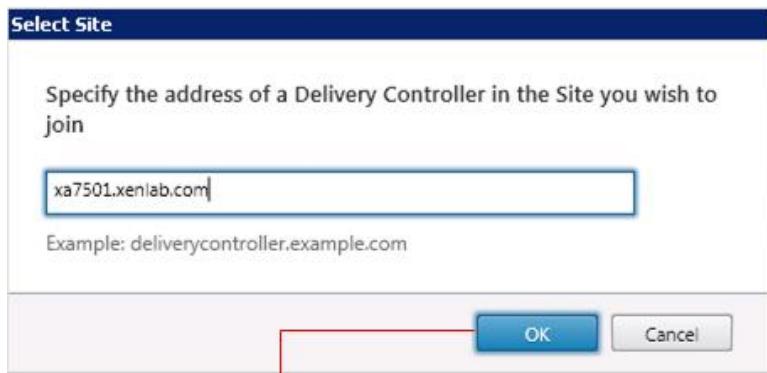
The screenshot shows the Citrix Studio interface after site configuration. A red arrow points from the 'Test site configuration' checkbox in the top right of the main window to a detailed test report window. The report window displays the following information:

- Site configuration testing is complete.**
- 178 successful tests**
- 0 warnings**
- 0 failed tests**

Buttons at the bottom of the report window include 'Show report' and 'Finish'.

The screenshot shows the Citrix Studio 'Welcome' screen. It features three main options:

- Site setup**: Contains the text "Deliver applications and desktops to your users".
- Remote PC Access**: Contains the text "Enable your users to remotely access their physical machines".
- Scale your deployment**: Contains the text "Connect this Delivery Controller to an existing Site". This option is highlighted with a large red rectangular box.



Console Root

Citrix Studio (XenLab)

- Search
- Machine Catalogs
- Delivery Groups
- Policies
- Logging

Configuration

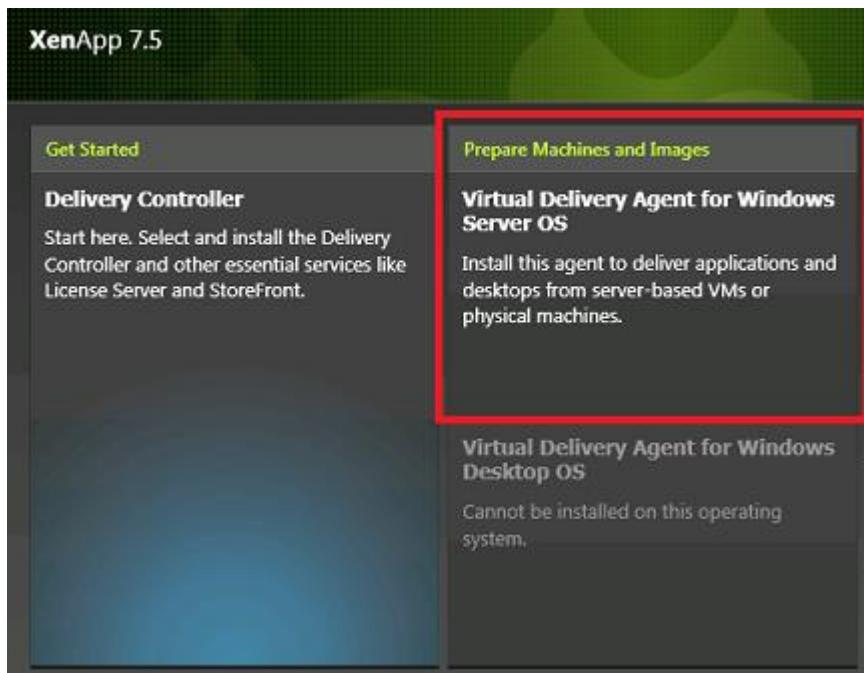
- Administrators
- Controllers
- Hosting
- Licensing
- StoreFront
- App-V Publishing

Citrix StoreFront

Name	Last Updated
XA7501.xenlab.com	0 minutes ago
XA7502.xenlab.com	0 minutes ago

CITRIX

Name	Last Updated
XA7501.xenlab.com	0 minutes ago
XA7502.xenlab.com	0 minutes ago



The screenshot shows the 'Configuration' tab in the XenApp 7.5 Configuration dialog. The left sidebar lists 'Core Components', 'Delivery Controller', 'Features', 'Firewall', 'Summary', 'Install', and 'Finish'. The main area shows the 'Configuration' tab selected. It asks 'I want to:' and provides two options: 'Create a Master Image' (radio button not selected) and 'Enable connections to a server machine' (radio button selected). The selected option is described as '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.' At the bottom are 'Back', 'Next', and 'Cancel' buttons.

XenApp 7.5

Environment

Core Components

Delivery Controller

Features

Firewall

Summary

Install

Finish

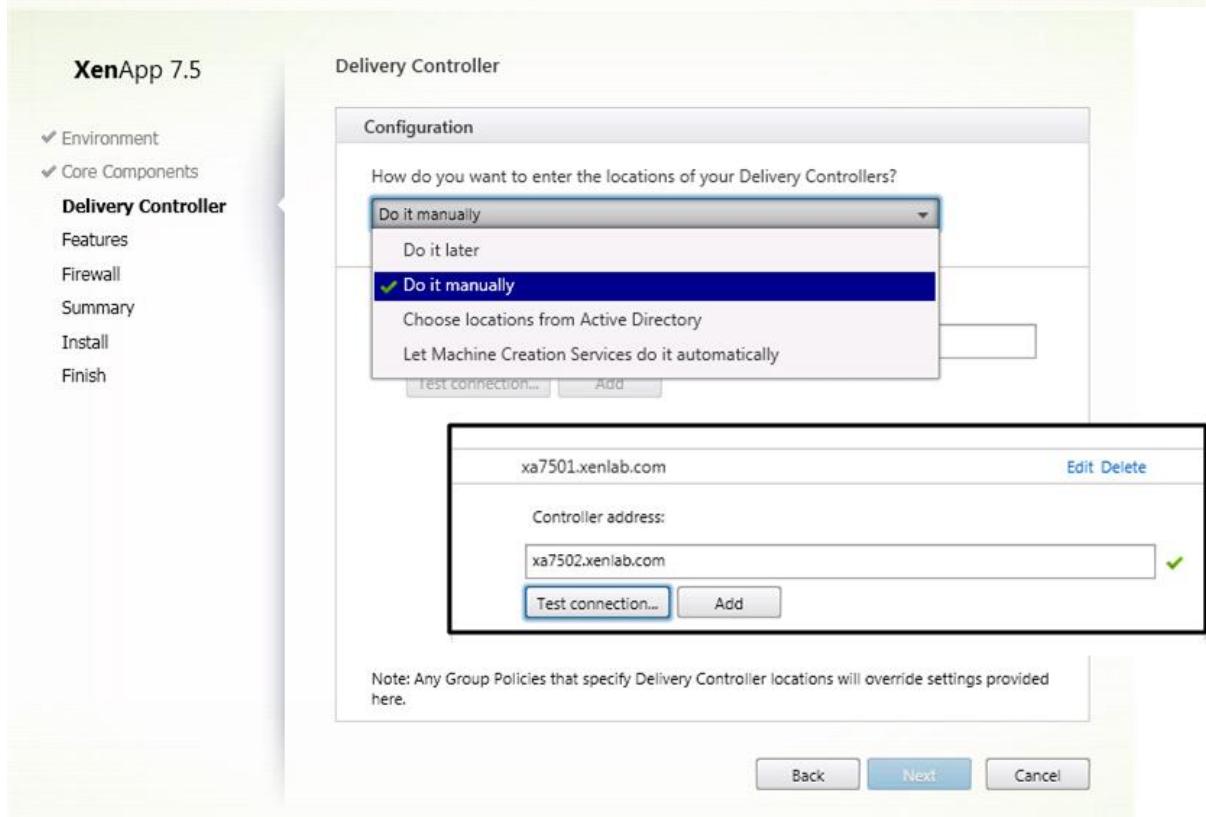
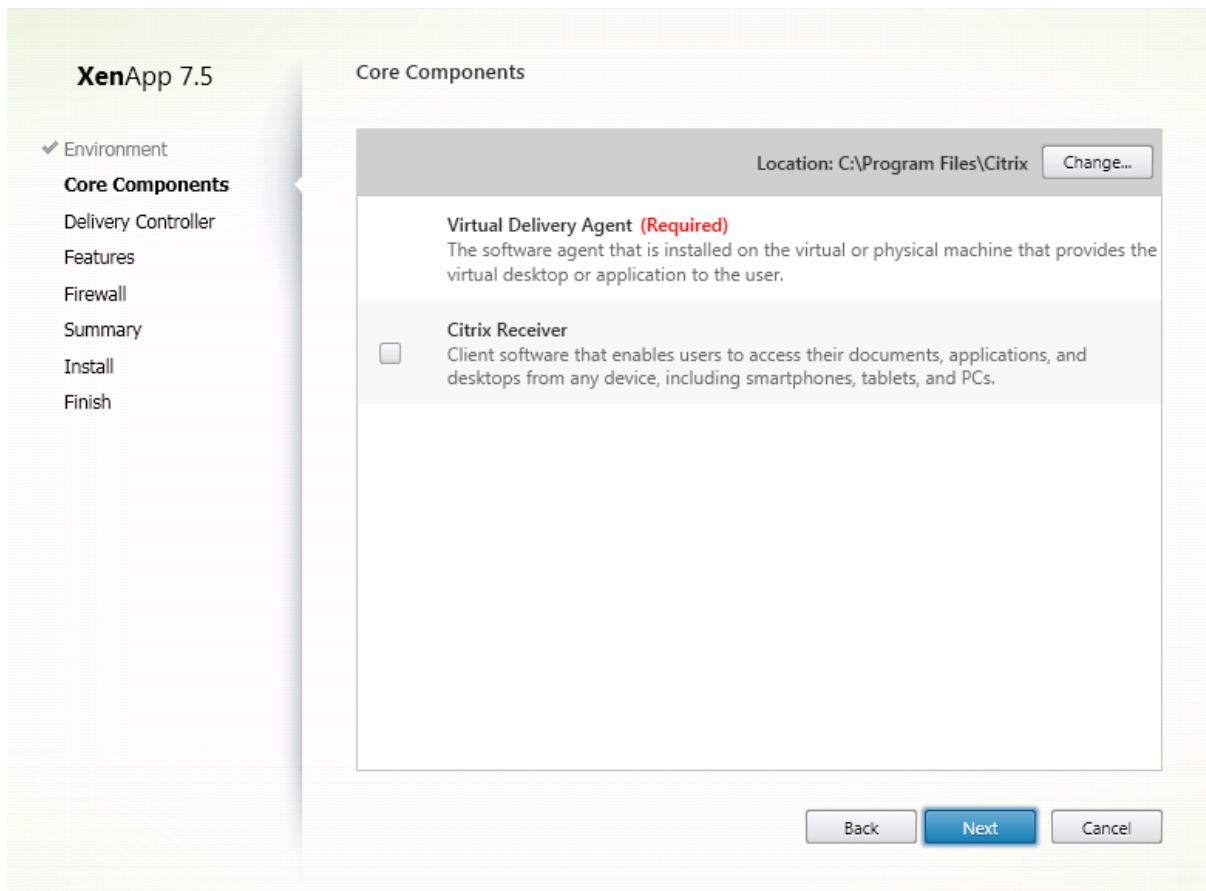
Configuration

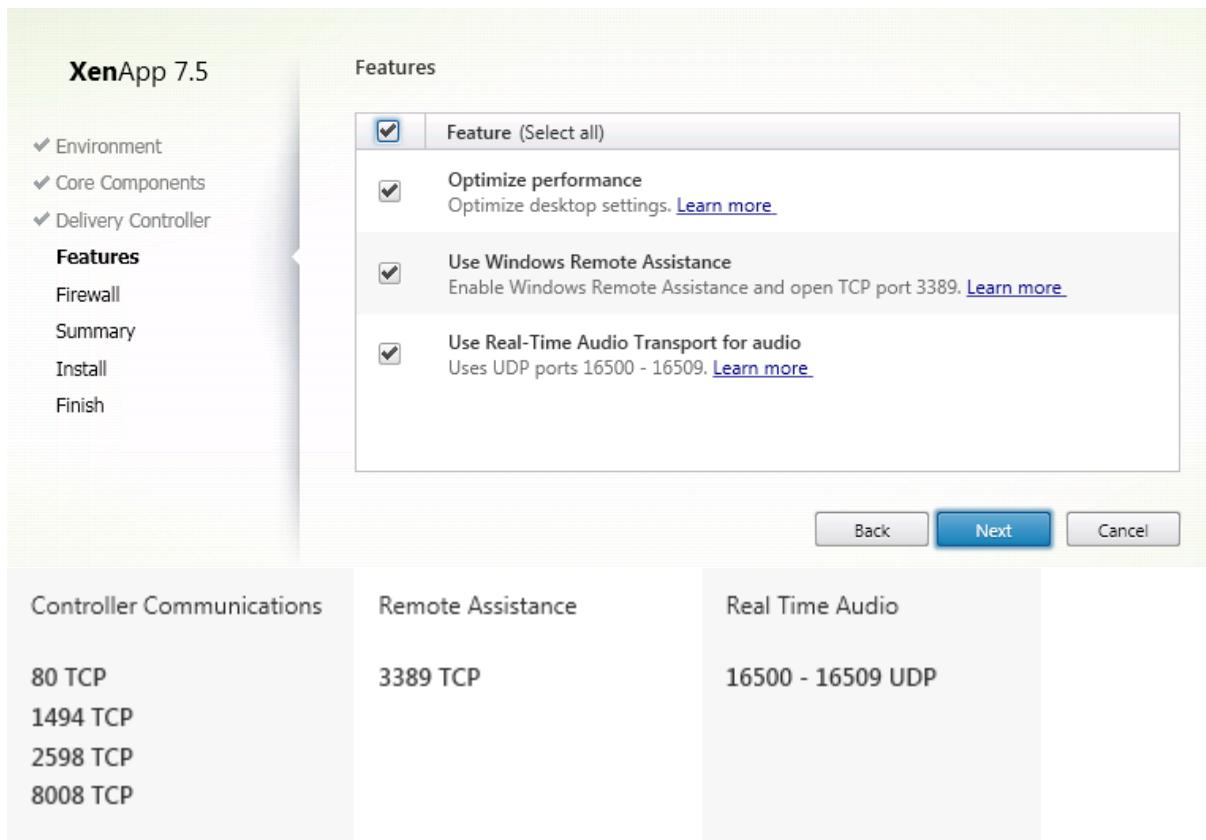
I want to:

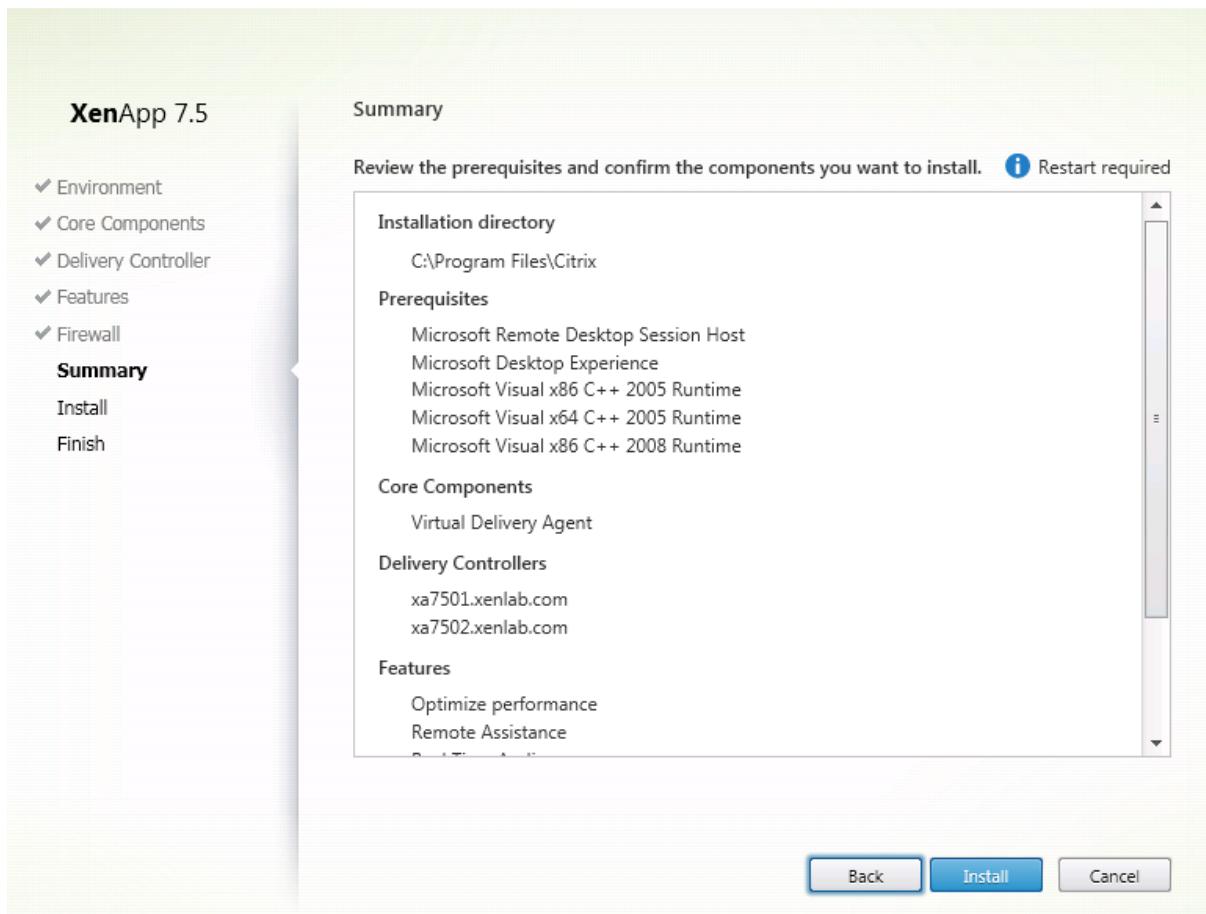
Create a Master Image  
Select this option if you use Machine Creation Services or Provisioning Services to create servers from this master image.

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.

Back Next Cancel







The screenshot shows the 'Machine Catalog Setup' process at the 'Operating System' selection step. The left sidebar under 'Studio' includes 'Introduction' (marked with a checkmark), 'Operating System' (selected), 'Machine Management', 'Master Image', 'Virtual Machines', 'Computer Accounts', and 'Summary'. The main area is titled 'Operating System' and asks 'Select an operating system for this Machine Catalog.' It lists three options with radio buttons: 'Windows Server OS' (selected), 'Windows Desktop OS', and 'Remote PC Access'. Descriptions for each option are provided: 'Windows Server OS' describes shared desktops for large-scale deployment; 'Windows Desktop OS' describes VDI desktops for different users; and 'Remote PC Access' describes remote access to physical office desktops. A note at the bottom states: 'There are currently no power management connections, but you can create one after completing this wizard. Then edit this Catalog to specify the new connection.' At the bottom are 'Back', 'Next' (highlighted in blue), and 'Cancel' buttons.

**Machine Catalog Setup**

**Studio**

✓ Introduction  
✓ Operating System  
**Machine Management**  
Virtual Machines  
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: Production  
 Citrix Provisioning Services (PVS)  
 Another service or technology  
I am not using Citrix technology to manage my machines. I have existing machines already prepared.

Back    Next    Cancel

**Select VMs**

AD SERVER xenlab.com

- cbxlic.xenlab.com ⓘ
- dir01.xenlab.com ⓘ
- edg01.xenlab.com ⓘ
- NetScaler Virtual Appliance ⓘ
- ns01.xenlab.com ⓘ
- pvs02.xenlab.com ⓘ
- sf02.xenlab.com ⓘ
- xa6502.xenlab.com ⓘ
- xa7502.xenlab.com ⓘ
- WIN2009 Template

OK    Cancel

**Virtual Machines**

Import or add virtual machines and their computer AD accounts.

VM name	Computer AD account
xa7502.xenlab.com	XENLAB\XA7502\$

## Machine Catalog Setup

**Studio**

**Summary**

Machine type:	Windows Server OS
Machine management:	Physical
Provisioning method:	Another service or technology
Number of machines added:	1
Scopes:	-

Machine Catalog name:  
Controllers

Machine Catalog description for administrators: (Optional)  
XenApp 7.5 Controllers

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

Back    Finish    Cancel

## Site Setup

Follow these steps to set up and deploy your virtual desktop infrastructure.

Configuration  
1 Configuration Successful

Machine Catalogs  
2 Catalog created successfully

Delivery Groups  
3 Set up Delivery Groups to assign desktops and applications to your users

Studio  
Machine Catalog testing is complete.  
3 successful tests  
0 warnings  
0 failed tests  
Show report    Finish

Test site configuration  
Test catalog  
Test delivery group



## Create Delivery Group

### Studio

- ✓ Introduction
- Machines**
- Delivery Type
- Users
- StoreFront
- Summary

### Machines

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

Catalog	Type	Machines
Controllers XenApp 7.5 Controllers	RDS Manual Random	1

Choose the number of machines for this Delivery Group:

 - +

Back

Next

Cancel

## Create Delivery Group

### Studio

- ✓ Introduction
- ✓ Machines
- Delivery Type**
- Users
- Applications
- StoreFront
- Summary

### Delivery Type

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

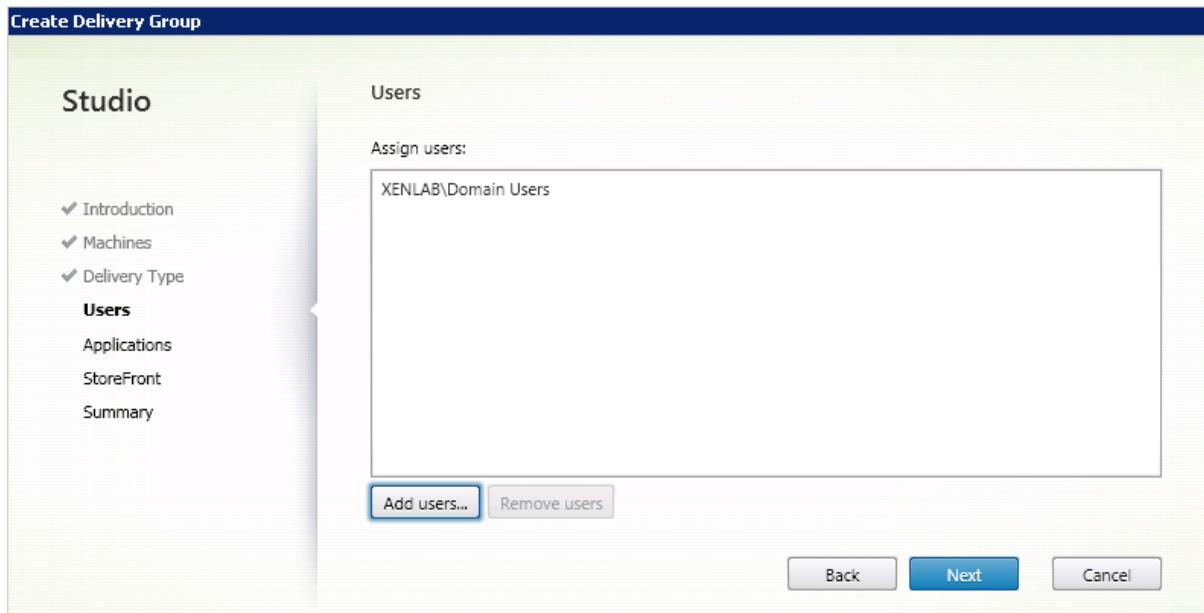
Use the machines to deliver:

- Desktops
- Desktop and applications
- Applications

Back

Next

Cancel



### Applications

The applications listed are available on the master image (used in the Catalog) or on the App-V publishing server. You can add applications manually from other network locations, and edit the properties of applications. You configure App-V management and publishing servers in the Configuration node.

#### Select applications:

- Application name
  - Calculator
  - Character Map
  - Citrix Receiver
  - Citrix Scout
  - Citrix Studio
  - Command Prompt
  - Data Sources ODBC
  - Default Programs
  - dfrgui
  - Disk Cleanup
  - displayswitch
  - Ease of Access
- Add applications manually...** Application Properties

**Add Applications Manually**

**Add an Application Manually**

You can add applications from the virtual machine in this Delivery Group or from a different network location.

**Path to the executable file:** %SystemRoot%\System32\notepad.exe **Browse...**

**Command line argument (optional):** Example: http://www.example.com

**Working directory:** %SystemRoot%\System32 **Browse...**

**Application name (for user):** Notepad

**Application name (for administrator):** Notepad

OK Cancel

### Create Delivery Group

**Studio**

**Summary**

Machine Catalog:	<b>Controllers</b>
Machine type:	Windows Server OS
Allocation type:	Random
Machines added:	1 unassigned
Delivery type:	Desktops and Applications
Users:	XENLAB\Domain Users
Applications:	1
Scopes:	-

**Delivery Group name:**  
Test Applications

**Display name:**  
Test Applications

**Delivery Group description, used as label in Receiver (optional):**

[Back](#) [Finish](#) [Cancel](#)

**CITRIX**

**Common Tasks**

Use this screen to perform common maintenance tasks.

**Site configuration**

Task	Administrator	Time
Enqueue Hosting Power Action 'XENLAB\XA6501'	XENLAB\Administrator	5/6/2014 : 10:15:46 PM
Enqueue Hosting Power Action 'XENLAB\XA6501'	XENLAB\Administrator	5/6/2014 : 10:15:33 PM
Edit Machine 'XENLAB\XA7502'	XENLAB\Administrator	4/23/2014 : 9:34:49 PM
Update File Type Associations on Desktop 'XENLAB\XA7501'	XENLAB\Administrator	4/23/2014 : 9:03:32 PM
Update File Type Associations on Desktop 'XENLAB\XA7501'	XENLAB\Administrator	4/23/2014 : 9:02:35 PM

[Test site...](#)

**Machine catalogs**

Controllers	2 Machines
Corporate Desktop	0 Machines
<b>Legacy</b>	1 Machine

[Update master image](#) [Test catalog...](#)

**Delivery groups**

Line of Business	0 Machines
<b>Test Applications</b>	2 Machines

[View machines](#) [Test delivery group...](#)

**Citrix Studio (XenLab)**

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

**CITRIX**

Common Tasks Actions PowerShell

```

#
# Get Machines
#
# 5/6/2014 9:55 AM
#
Get-BrokerMachine -AdminAddress 'xa7501.xenlab.com:80' -Filter '((DesktopGroupName -eq 'Controllers') -and (SessionSupport -eq 'MultiSession'))' -MaxRecordCount 500 -Property @('DNSName','CatalogName','DesktopGroupName','InMaintenanceMode','PersistUserChanges','PowerState','RegistrationState','SessionCount','MachineName','Uid','DesktopUid','DesktopKind','HypervisorConnectionUid','CatalogUid','DesktopGroupId','Capabilities','SupportedPowerActions') -ReturnTotalRecordCount -Skip 0 -SortBy '+DNSName'
# Get-BrokerMachine : Returned 2 of 2 items
# Script completed successfully

```

**Machine Catalog**

	Machine type	No. of machines
Controllers Allocation Type: Random	Windows Server OS User data: -	2 Provisioning method: Manual
Corporate Desktop Allocation Type: Random	Windows Server OS (Virtual) User data: On local disk	0 Provisioning method: Manual
Legacy Allocation Type: Random	Windows Server OS (Virtual) User data: On local disk	1 Provisioning method: Manual

**Details - Controllers**

Details Machines Administrators

**Machine Name**

- XENLAB\XA7501
- XENLAB\XA7502

**Edit Delivery Group**

**Studio**

**User Settings**

Description: Test Applications

**Edit Delivery Group**

**Studio**

**Restart Schedule**

Do you want to restart machines automatically?

No

Yes

Restart machines: Every Monday

Restart first group at: 01 : 00

Restart additional groups every: 1 hour

Send restart notification to user:

15 minutes before user is logged...

Notification message:

Please close your applications for maintenance.

OK Cancel Apply

## Applications

The applications listed are available on the master image (used in the C server. You can add applications manually from other network locations. You configure App-V management and publishing servers.

Select applications:

<input checked="" type="checkbox"/> Application name
<input checked="" type="checkbox"/> Bing Search
<input checked="" type="checkbox"/> Google Search

Add applications manually.

### Add Applications Manually

#### Add an Application Manually

You can add applications from the virtual machine in this network location.

Path to the executable file:

%ProgramFiles%\Internet Explorer\iexplore.exe

Command line argument (optional):

http://www.bing.com

Working directory:

%ProgramFiles%\Internet Explorer

Application name (for user):

Bing Search

Application name (for administrator):

Bing Search

OK

Cancel

<b>Studio</b> <ul style="list-style-type: none"> <li><b>Identification</b></li> <li><b>Delivery</b></li> <li><b>Location</b></li> <li><b>Limit Visibility</b></li> <li><b>File Type Association</b></li> </ul>	<h3>Identification</h3> <p>Identify this application.</p> <p><b>Application name (for user):</b> Chrome</p> <p><b>Application name (for administrator):</b> Chrome</p> <p><b>Description and keywords:</b>  This is the description that will be seen by the user. You can also use this field to enter keywords for StoreFront. <a href="#">Learn More</a></p>
<b>Studio</b> <ul style="list-style-type: none"> <li><b>Identification</b></li> <li><b>Delivery</b></li> <li><b>Location</b></li> <li><b>Limit Visibility</b></li> <li><b>File Type Association</b></li> </ul>	<h3>Delivery</h3> <p>Specify how this application will be delivered to your users.</p> <p><b>Application icon:</b>  <a href="#">Browse...</a></p> <p><b>Application category (optional):</b> <i>Example: ApplicationCategory\SubCategory\SubCategory</i></p> <p>This is the category in Receiver where the application is displayed.</p> <p><input type="checkbox"/> Add shortcut on user's desktop</p>
<b>Studio</b> <ul style="list-style-type: none"> <li><b>Identification</b></li> <li><b>Delivery</b></li> <li><b>Location</b></li> <li><b>Limit Visibility</b></li> <li><b>File Type Association</b></li> </ul>	<h3>Location</h3> <p>Enter the location information below.</p> <p><b>Path to the executable file:</b> %SystemDrive%\Tools\Sample Apps\chrome.exe <a href="#">Browse...</a></p> <p>Browse the applications on the local machine, or enter the path manually.</p> <p><b>Command line argument (optional):</b> <i>Example: https://www.Example.com</i></p> <p><b>Working directory:</b> %SystemDrive%\Tools\Sample Apps <a href="#">Browse...</a></p>
<b>Studio</b> <ul style="list-style-type: none"> <li><b>Identification</b></li> <li><b>Delivery</b></li> <li><b>Location</b></li> <li><b>Limit Visibility</b></li> <li><b>File Type Association</b></li> </ul>	<h3>Limit Visibility</h3> <p>By default, applications are visible to all users in a Delivery Group, but you can hide them in Receiver from some users. All users can still start this application, so if you want it to be unavailable to some users, rather than hidden, put it in a separate Delivery Group.</p> <p><input checked="" type="radio"/> Show this application to the entire Delivery Group  <input type="radio"/> Limit visibility for this application to the users listed below</p> <div style="border: 1px solid #ccc; height: 40px; margin-top: 10px;"></div>

```
PS C:\Users\administrator.XENLAB> Add-BrokerApplication "Bing Search" -DesktopGroup 2
PS C:\Users\administrator.XENLAB> $app = Get-BrokerApplication -BrowserName "Bing Search"
PS C:\Users\administrator.XENLAB> $app

ApplicationType          : HostedOnDesktop
AssociatedDesktopGroupPriorities : {0, 0}
AssociatedDesktopGroupIds    : {2, 1}
AssociatedUserFullNames     : {}
AssociatedUserNames         : {}
AssociatedUserUPNs          : {}
BrowserName                : Bing Search
ClientFolder               : 
CommandLineArguments       : www.bing.com
CommandLineExecutable      : %ProgramFiles%\Internet Explorer\iexplore.exe
CpuPriorityLevel           : Normal
Description                : 
Enabled                    : True
IconFromClient              : False
IconUid                     : 3
MetadataKeys                : {}
MetadataMap                 : {}
Name                       : Bing Search
PublishedName              : Bing Search
SecureCmdLineArgumentsEnabled : True
ShortcutAddedToDesktop      : False
ShortcutAddedToStartMenu    : False
StartMenuFolder              : 
JUID                       : 49dcf749-f998-4e54-843d-982ca9f6e1c8
Jid                        : ??
UserFilterEnabled           : False
Visible                    : True
WaitForPrinterCreation     : False
WorkingDirectory            : %ProgramFiles%\Internet Explorer
```

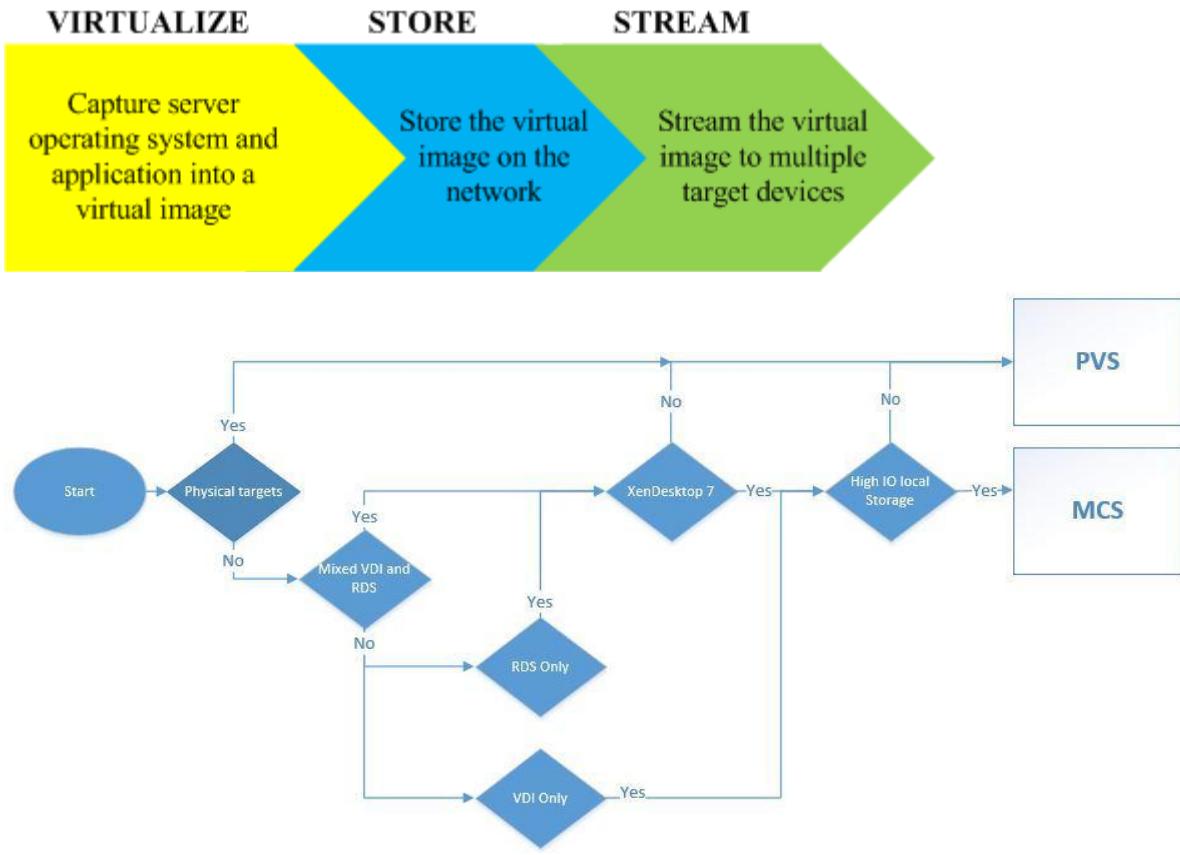
### Studio



There are no available machines in a compatible Machine Catalog. You must create a new Machine Catalog or add machines to an existing one.

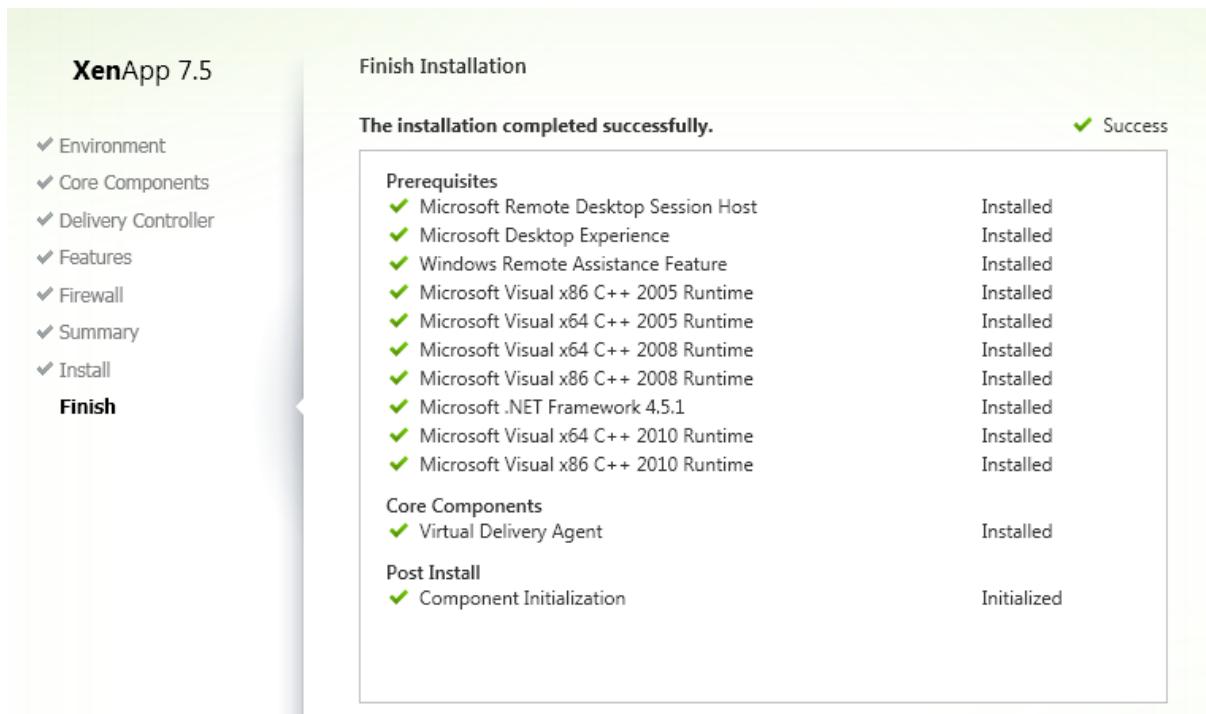
[Close](#)

## Chapter 6



### Disks

Name	Size	Virtual Machine	Type
Application Servers-baseDisk	60 GB		Master Image
XAPP01_IdentityDisk	16 MB	XAPP01	Snapshot
XAPP01-diff	60 GB	XAPP01	Linked Clone
XAPP02_IdentityDisk	16 MB	XAPP02	Identity Disk
XAPP02-diff	60 GB	XAPP02	Linked Clone Difference Disk



Restart machine

**Machine Catalog Setup**

**Studio**

**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)  
 Citrix Provisioning Services (PVS)  
 Another service or technology  
I am not using Citrix technology to manage my machines. I have existing machines already prepared.

Resources: Production

Back Next Cancel

**Machine Catalog Setup**

**Studio**

- ✓ Introduction
- ✓ Operating System
- ✓ Machine Management

**Master Image**

Virtual Machines  
Computer Accounts  
Summary

**Master Image**

A Master Image is a virtual machine template. The master image you select here will be used to create all virtual machines in this catalog. Note that a master image may also be referred to as a clone image, golden image, or base image. If you select a GPU-enabled snapshot or VM, use the VDA for HDX 3D Pro for optimal performance.

**Important:** The snapshot or Virtual Machine that you select here must have the correct version of the VDA installed. If it does not, Catalog creation may fail.

Select a snapshot (or a Virtual Machine):

- ▶ ns01.xenlab.com ⓘ
- ▶ pvs01.xenlab.com ⓘ
- ▶ xa6501.xenlab.com ⓘ
- ▶ xa6501.xenlab.com ⓘ
- ▶ xa6501.xenlab.com ⓘ
- ▶ xa7502.xenlab.com ⓘ
- XenAppMaster ⓘ**
- ▶ z Windows7-Master ⓘ

**Back** **Next** **Cancel**

**Machine Catalog Setup**

**Studio**

- ✓ Introduction
- ✓ Operating System
- ✓ Machine Management
- ✓ Master Image

**Virtual Machines**

Number of virtual machines needed:  
10 - +

Configure your machines:

Name:	baseline
Virtual CPUs:	2 <span style="border: 1px solid #ccc; padding: 2px;">4</span> <span style="border: 1px solid #ccc; padding: 2px;">-</span> <span style="border: 1px solid #ccc; padding: 2px;">+</span>
Memory (MB):	2048 <span style="border: 1px solid #ccc; padding: 2px;">24576</span> <span style="border: 1px solid #ccc; padding: 2px;">-</span> <span style="border: 1px solid #ccc; padding: 2px;">+</span>
Hard disk (GB):	60 <span style="border: 1px solid #ccc; padding: 2px;">60</span>

**Back** **Next** **Cancel**

**Machine Catalog Setup**

## Studio

**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:

Infrastructure  
 Service Accounts  
 XenApp75  
 Controllers  
 Session Hosts

Selected location:

Account naming scheme:

XAAPP01

[Back](#) [Next](#) [Cancel](#)

**Machine Catalog Setup**

## Studio

**Summary**

Machine type:	Windows Server OS
Machine management:	Virtual
Provisioning method:	Machine creation services (MCS)
Resources:	Production
Master Image name:	XenAppMaster
Number of VMs to create:	10
Virtual CPUs:	4
Memory (MB):	24576
Hard disk (GB):	60

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.

[Back](#) [Finish](#) [Cancel](#)

**Studio**

**Creating Catalog MCS App Servers...**



Copying the master image

[Hide progress](#)

**CITRIX**

Machine Catalog	Machine type	No. of machines
Application Servers	Windows Server OS (Virtual)	10
Allocation Type: Random	User data: Discard	Provisioning method: Machine creation services
Controllers	Windows Server OS	2
Allocation Type: Random	User data: -	Provisioning method: Manual
Corporate Desktop	Windows Server OS (Virtual)	0
Allocation Type: Random	User data: On local disk	Provisioning method: Manual
Legacy	Windows Server OS (Virtual)	1
Allocation Type: Random	User data: On local disk	Provisioning method: Manual

**Machine Catalog**

**Application Servers**

**Allocation Type: Ra**

- Controllers
- Allocation Type: Ra
- Corporate Desktop
- Allocation Type: Ra
- Legacy
- Allocation Type: Ra

**Add Machines**

**Update Machines** (Selected)

Edit Machine Catalog

Manage AD Accounts

View Machines

Delete Machine Catalog

Rename Machine Catalog

Test Machine Catalog

Help

**Update machines**

**Studio**

**Master Image**

A Master Image is a virtual machine template. The master image you select here will be used to create all virtual machines in this catalog. Note that a master image may also be referred to as a clone image, golden image, or base image. If you select a GPU-enabled snapshot or VM, use the VDA for HDX 3D Pro for optimal performance.

**Important:** The snapshot or Virtual Machine that you select here must have the correct version of the VDA installed. If it does not, Catalog creation may fail.

Select a snapshot (or a Virtual Machine):

- ▶ ns01.xenlab.com ⓘ
- ▶ pvs01.xenlab.com ⓘ
- ▶ xa6501.xenlab.com ⓘ
- ▶ xa6501.xenlab.com ⓘ
- ▶ xa6501.xenlab.com ⓘ
- ▶ xa7502.xenlab.com ⓘ
- ▼ XenAppMaster ⓘ
  - ▶ Citrix\_XD\_Application Servers ⓘ (Selected)
  - ▶ z Windows7-Master ⓘ

Back Next Cancel

**Update machines**

## Studio

### Rollout Strategy

When do you want to update this image?

On next shutdown (not right now)  
 Select this option if you are using the Citrix Connector for System Center Configuration Manager.

Notify users of the update

Immediately (shut down and restart the machine now)

Distribution time:

Restart all machines at once

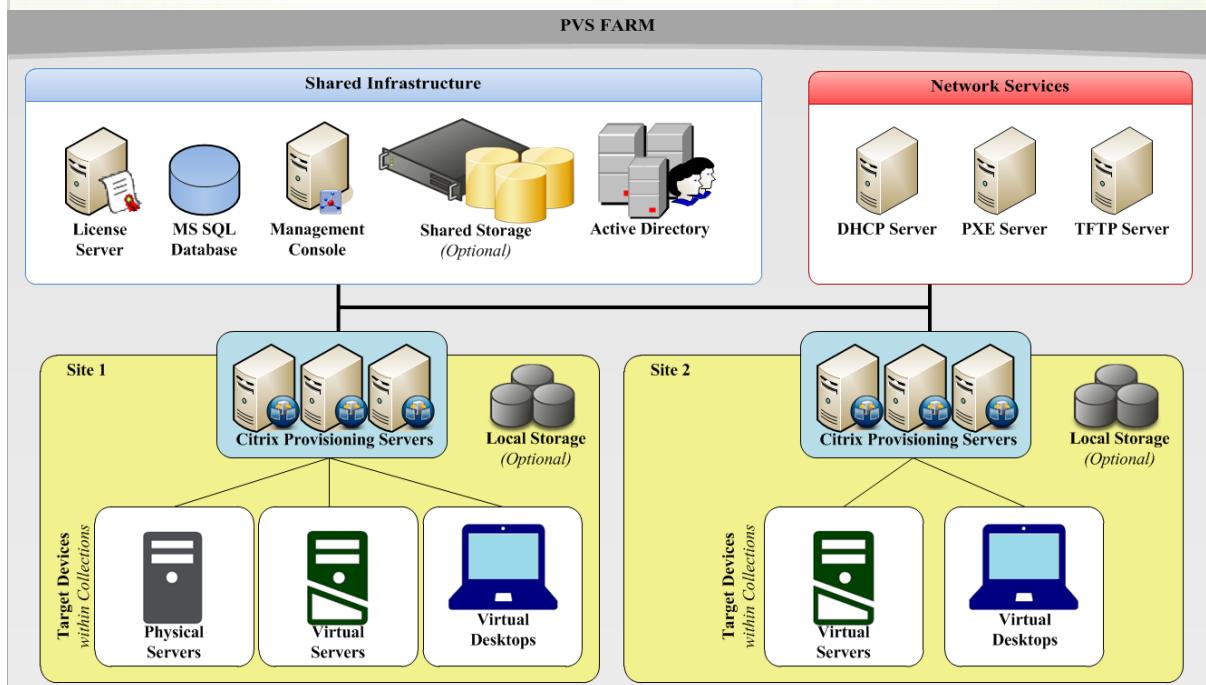
Notify users of the update:

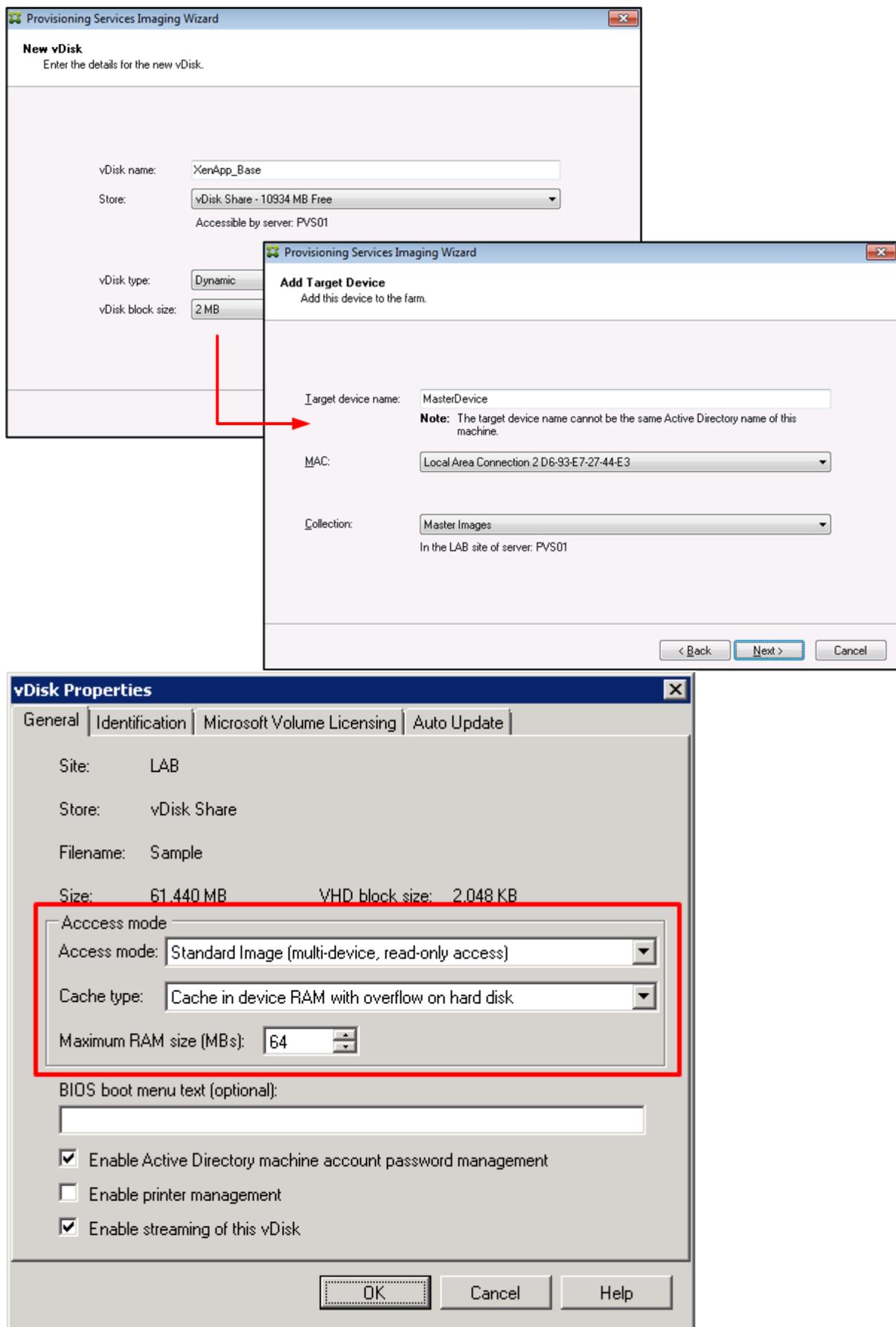
Do not send a notification

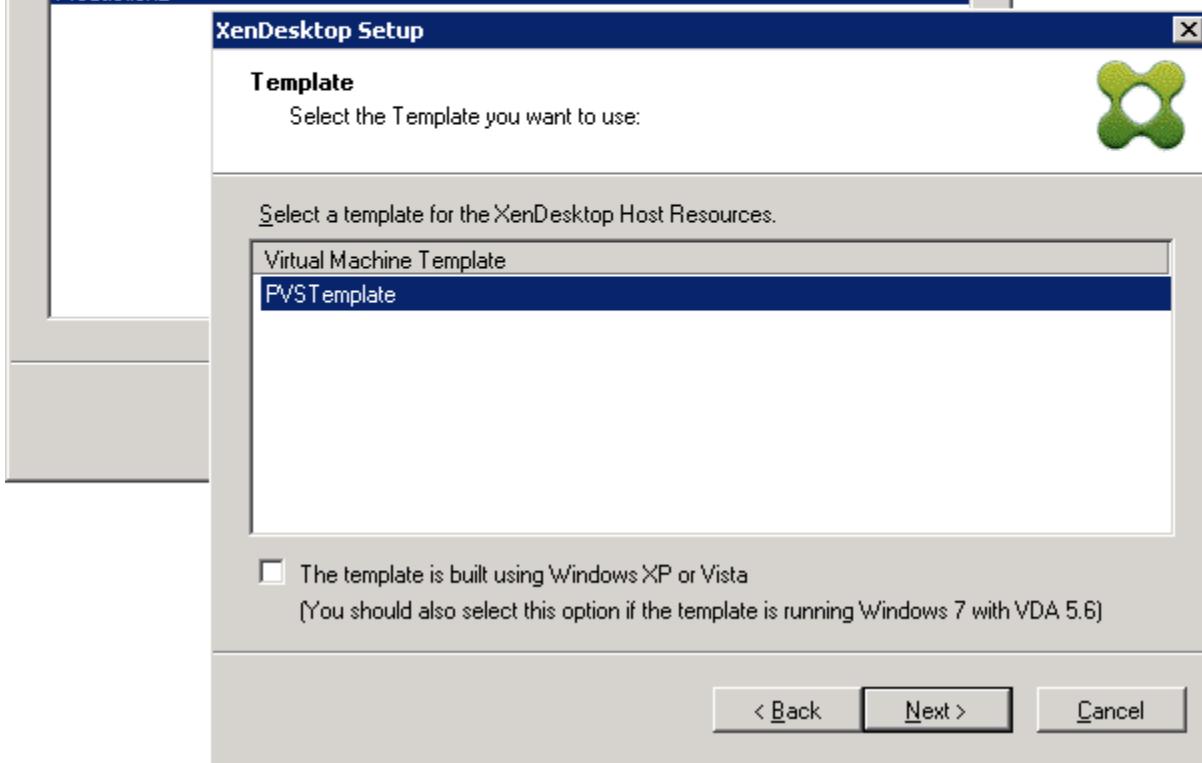
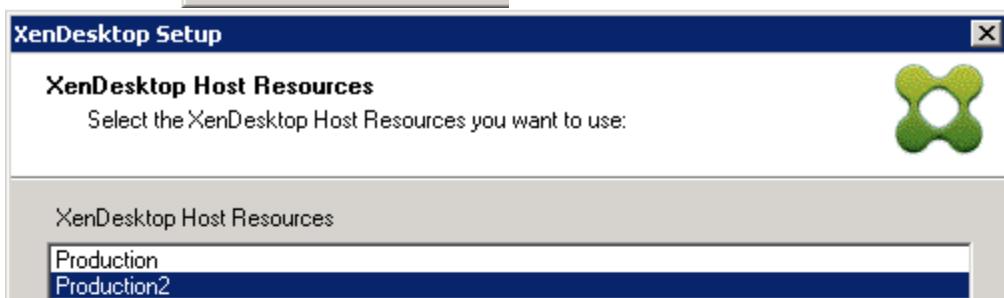
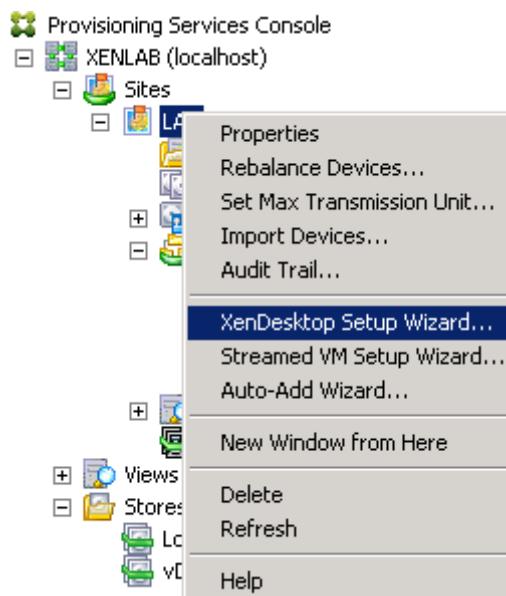
Message:

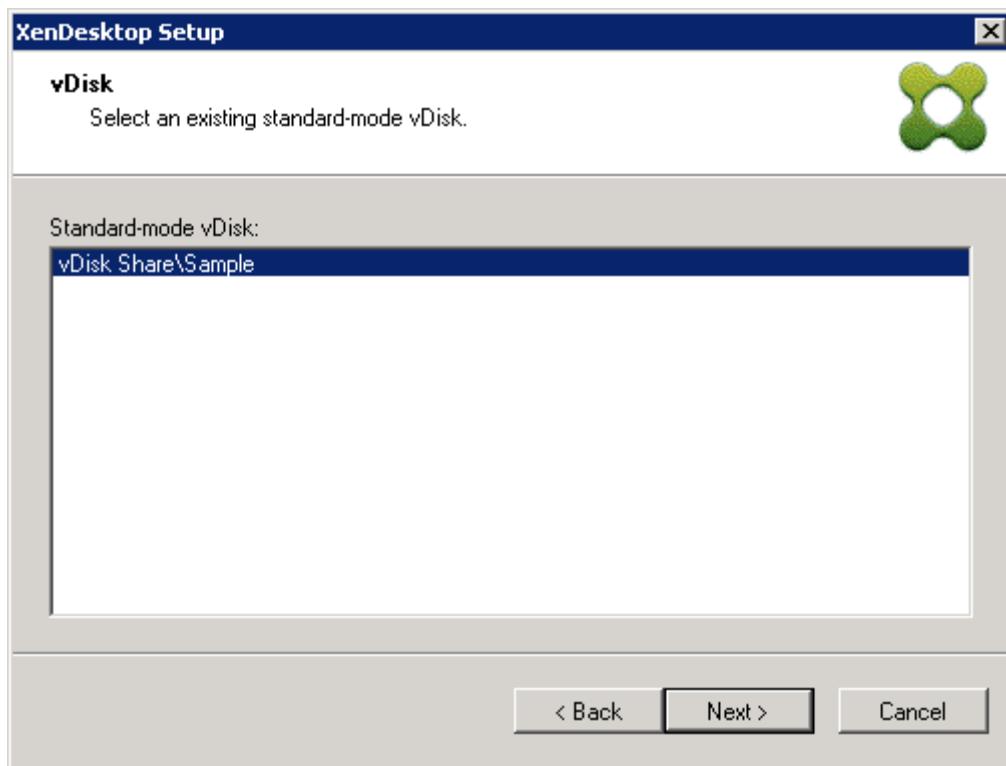
Example: Your computer has been updated and will automatically restart in 15 min...

Back    **Next**    Cancel









**XenDesktop Setup**

**Catalog**  
Select your Catalog preferences.

Create a new catalog  
 Use an existing catalog

Catalog name: Hosted Desktops  
Description: Streamed Desktops with PVS

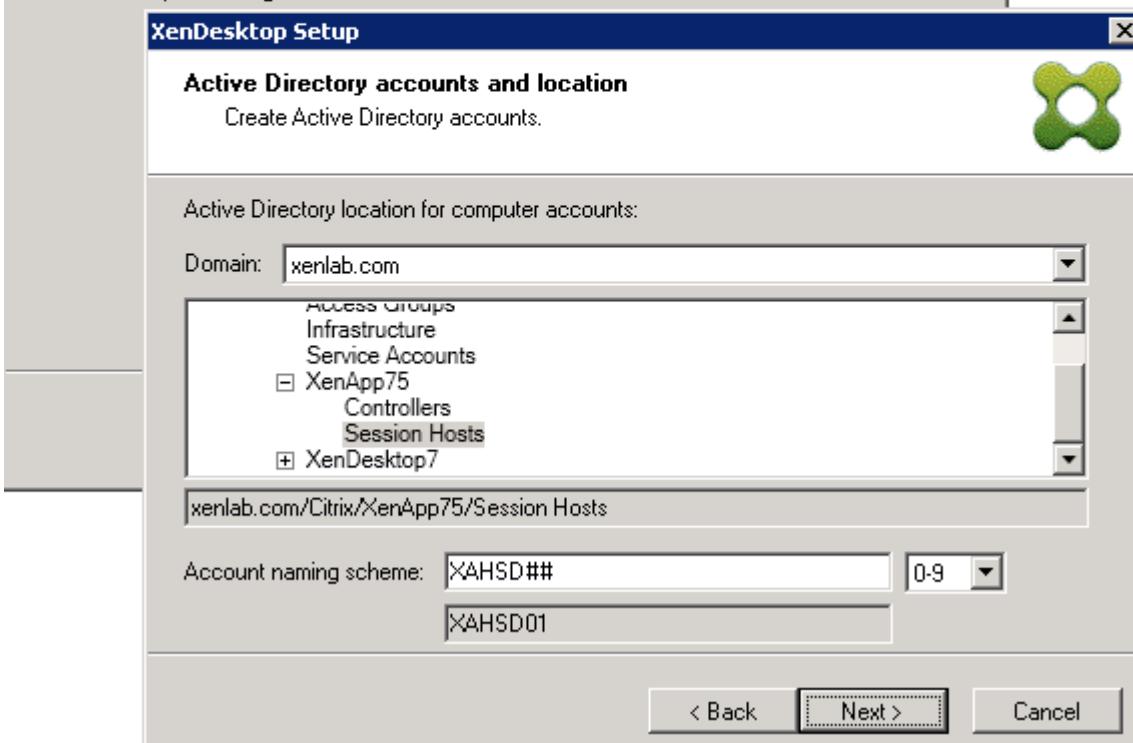
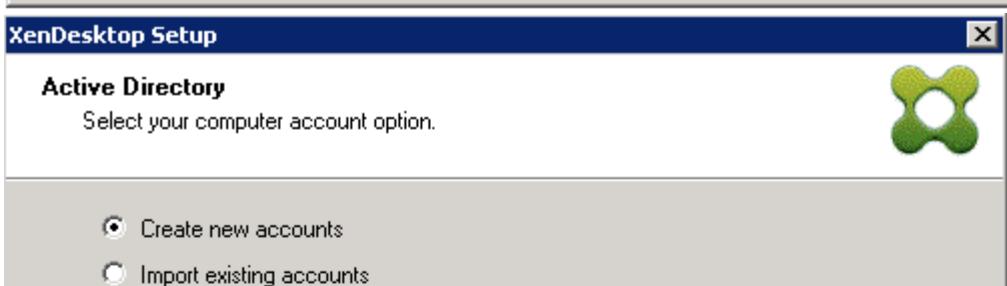
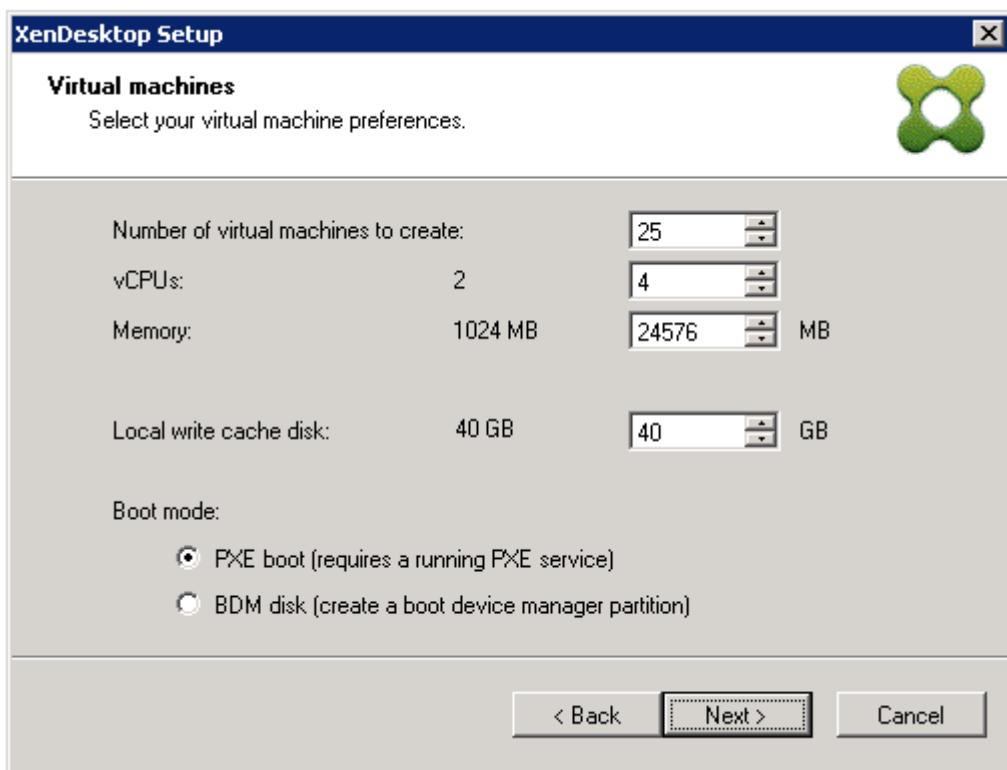
**XenDesktop Setup**

**Operating System**  
Select an operating system for this catalog.

Windows Desktop Operating System  
Best for delivering personalized desktops to users, or applications from desktop operating systems.  
 Windows Server Operating System  
Best for delivering applications or hosted shared desktops to users.

Note:  
This infrastructure will be built using virtual machines.  
Desktop images will be managed using Citrix Provisioning Services (PVS)

< Back    Next >    Cancel





Machine Catalog	Machine type	No. of machines
Application Servers	Windows Server OS (Virtual)	10
Allocation Type: Random	User data: Discard	Provisioning method: Machine creation services
Controllers	Windows Server OS	2
Allocation Type: Random	User data: -	Provisioning method: Manual
Corporate Desktop	Windows Server OS (Virtual)	0
Allocation Type: Random	User data: On local disk	Provisioning method: Manual
Hosted Desktops	Windows Server OS (Virtual)	25
Allocation Type: Random	User data: Discard	Provisioning method: Citrix provisioning services
Legacy	Windows Server OS (Virtual)	1
Allocation Type: Random	User data: On local disk	Provisioning method: Manual

**Provisioning Services Console**

File Action View Window Help

◀ ▶ ⌂ ⌂ ? ⌂

**XENLAB (localhost)**

- Sites
  - LAB
    - Servers
    - vDisk Pool
    - vDisk Update Management
    - Device Collections
      - Desktops
      - Hosted Applications
      - Hosted Desktops
      - Master Images
    - Views
    - Hosts
  - Views
  - Stores
    - LocalStorage
    - vDisk Share

Name	MAC
XAHSD01	62-00-E3-32-64-CF
XAHSD02	22-91-1D-A0-C5-87
XAHSD03	62-D3-29-19-99-5D
XAHSD04	DA-1A-00-04-81-85
XAHSD05	4A-6E-B1-B6-9F-90
XAHSD06	8A-34-FD-53-52-E4
XAHSD07	A6-E3-93-95-B4-09
XAHSD08	62-0E-49-89-D6-C2
XAHSD09	72-B5-8F-7C-55-55
XAHSD10	2E-57-47-00-22-A0
XAHSD11	AA-73-C6-56-DA-...
XAHSD12	52-E5-D9-A5-B3-99
XAHSD13	32-A2-91-9F-F1-AB
XAHSD14	96-2D-FC-32-CC-02
XAHSD15	E2-DA-BF-0C-EA-...
XAHSD16	D6-C0-77-58-4D-B5
XAHSD17	7A-EF-63-EF-A4-78
XAHSD18	DA-A0-78-6F-12-...
XAHSD19	9E-FB-D0-C2-BE-46
XAHSD20	56-51-8C-E4-AC-84
XAHSD21	EA-83-76-BC-19-7D
XAHSD22	A6-98-C2-E0-0E-9E
XAHSD23	5E-4E-18-67-76-27
XAHSD24	1A-09-4D-F5-CE-77
XAHSD25	4E-7F-F8-64-7E-3E

XAHSD01 XAHSD02 XAHSD03 XAHSD04 XAHSD05 XAHSD06 XAHSD07 XAHSD08 XAHSD09 XAHSD10 XAHSD11 XAHSD12 XAHSD13 XAHSD14 XAHSD15 XAHSD16 XAHSD17 XAHSD18 XAHSD19 XAHSD20 XAHSD21 XAHSD22 XAHSD23 XAHSD24 XAHSD25 XAHSD26 PVSTemplate

↔

## Maintenance

- Similar to Private Mode
- Read-Write Capability
- Only 1 device can connect at a time

## Test

- Optional, similar to Production Mode
- Read-Only Capability
- Can be streamed to multiple devices

## Production

- Same as Standard Mode
- Read-Only Capability
- Can be streamed to multiple devices

**Target Device Properties**

General | vDisks | Authentication | Personality | Status | Logging |

Name: XAHSD06

Description:

Type:

Boot from:

MAC: 00:20:00:62:62:50

Port: 6901

Class:

Disable this device

**vDisk Versions**

Boot production devices from version:

Version	Created	Released	Devices	Access	Type	
1	2014-05-09 21:24		0	Maintenance	Manual	<input type="button" value="New"/>
0	2014-05-09 21:22		0		Base	<input type="button" value="Promote..."/> <input type="button" value="Revert..."/> <input type="button" value="Merge..."/> <input type="button" value="Delete..."/> <input type="button" value="Replication..."/> <input type="button" value="Usage..."/> <input type="button" value="Properties..."/>

**Promote**

Set version access to:

Test  
 Production

Availability:

Immediate  
 Scheduled:

**Merge**

Create merge version as:

Merged Updates - All updates from last base  
 Merged Base - Last base + all updates from that base

Set merge version access to:

Maintenance  
 Test  
 Production

NOTE: If previous version is set to test or pending, merge version will also be set to match it.

vDisk Versions			
Boot production devices from version:			
Version	Access	Type	
5	Maintenance	Manual	
4	Test	Manual	
3		Merged Updates	
2		Manual	
1		Manual	
Base vDisk	0		Base

vDisk Versions

Boot production devices from version: Newest released

Version	Created	Released	Devices	Access	Type	
1	2014-05-09 21:24		0	Maintenance	Manual	New
0	2014-05-09 21:22		0		Base	Promote...

Name ^ Date modified Type

Sample.1.avhd	Version 1	5/9/2014 9:24 PM	AVHD File
Sample.1.pvp	vDisk Files	5/9/2014 9:24 PM	PVP File
Sample.lok		5/9/2014 9:24 PM	LOK File
Sample.pvp	Original vDisk Files	5/9/2014 9:23 PM	PVP File
Sample.vhd		5/9/2014 9:23 PM	VHD File

```
net0: 192.168.1.147/255.255.255.0 gw 192.168.1.1
Booting from filename "ardbp32.bin"
tftp://192.168.1.35/ardbp32.bin. ok
```

```
Provisioning Services bootstrap v7.1.0.4022
```

```
Copyright (c) 2001-2013 Citrix Systems, Inc. All rights reserved.
```

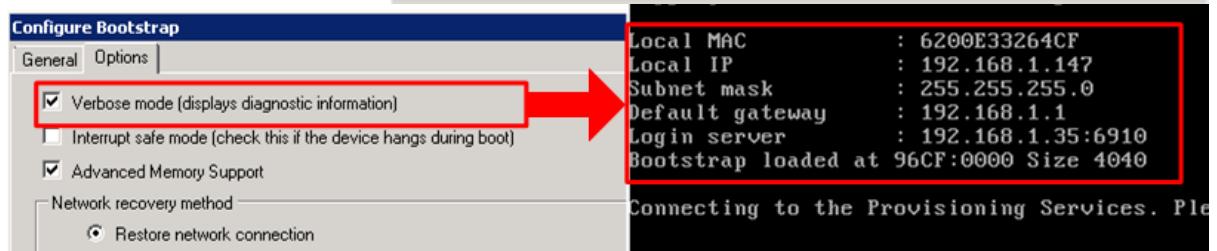
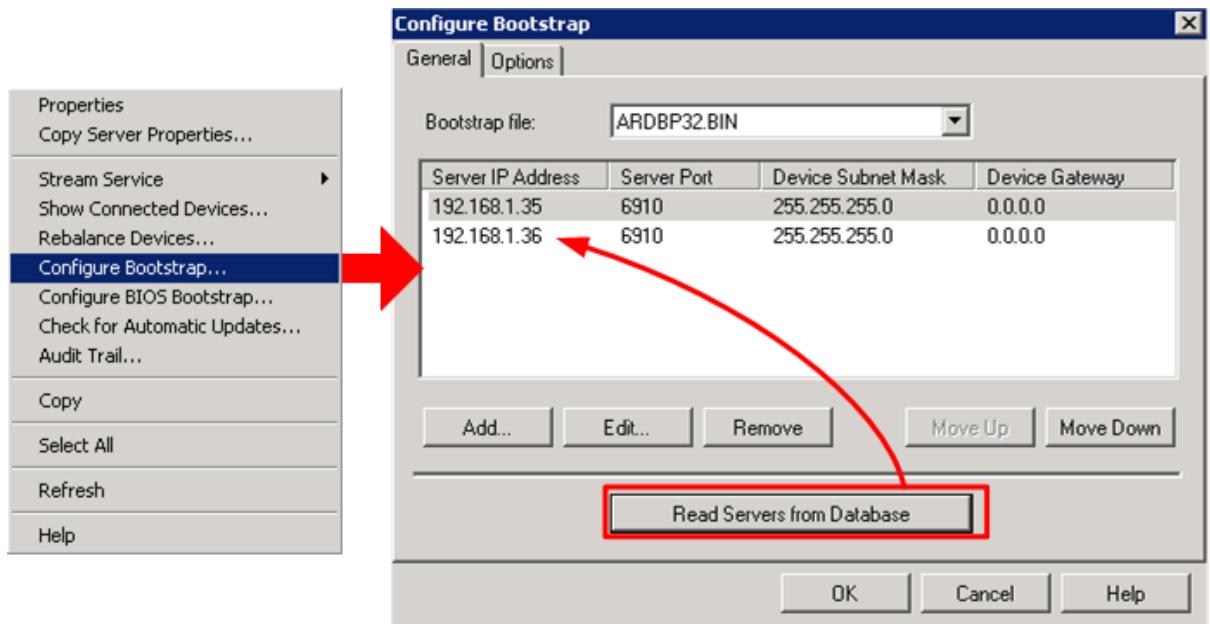
```
Local MAC : 6200E33264CF
Local IP : 192.168.1.147
Subnet mask : 255.255.255.0
Default gateway : 192.168.1.1
Login server : 192.168.1.35:6910
Bootstrap loaded at 96CF:0000 Size 4040
```

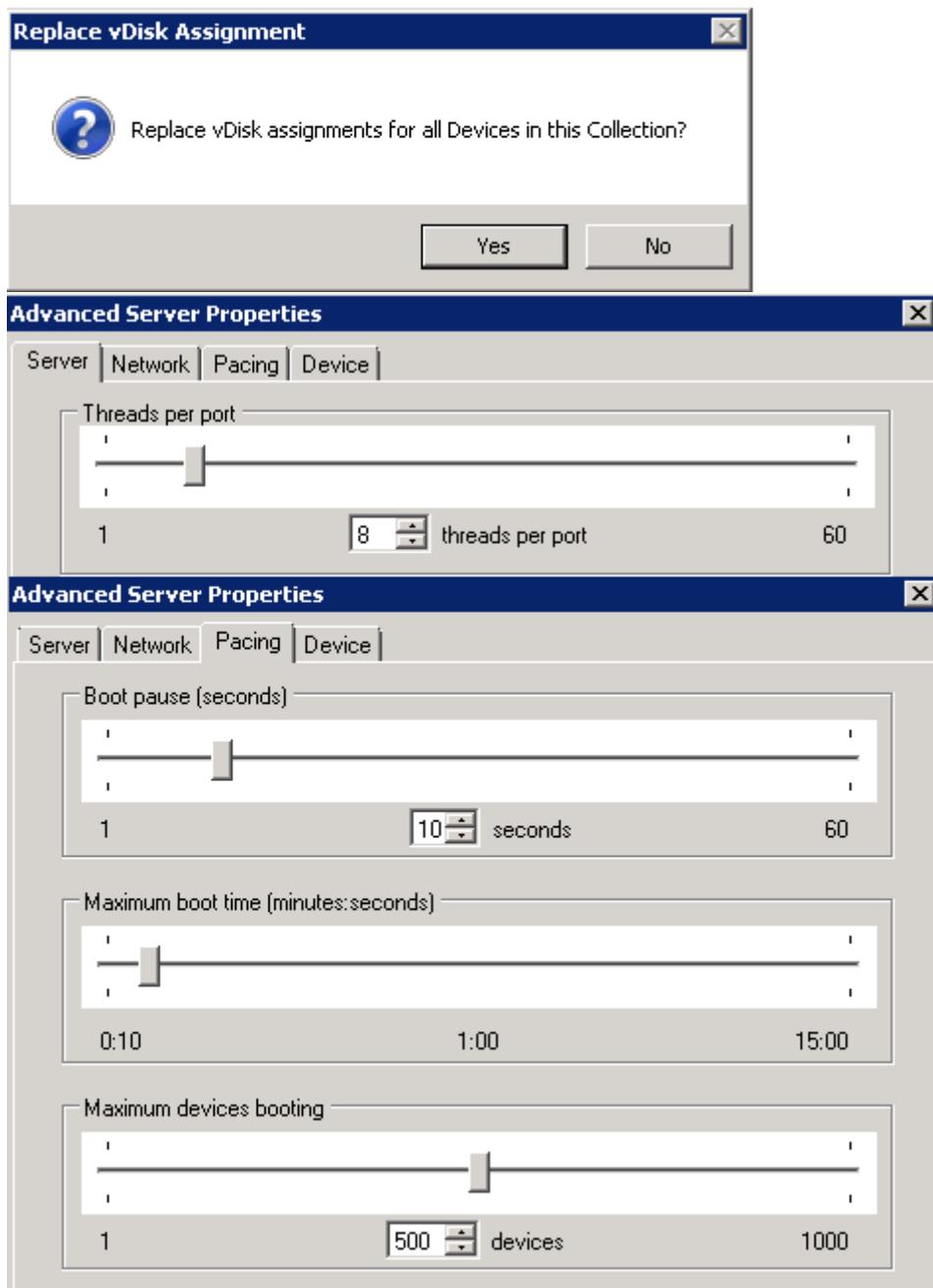
```
Connecting to the Provisioning Services. Please wait...
```

```
Boot Menu:
```

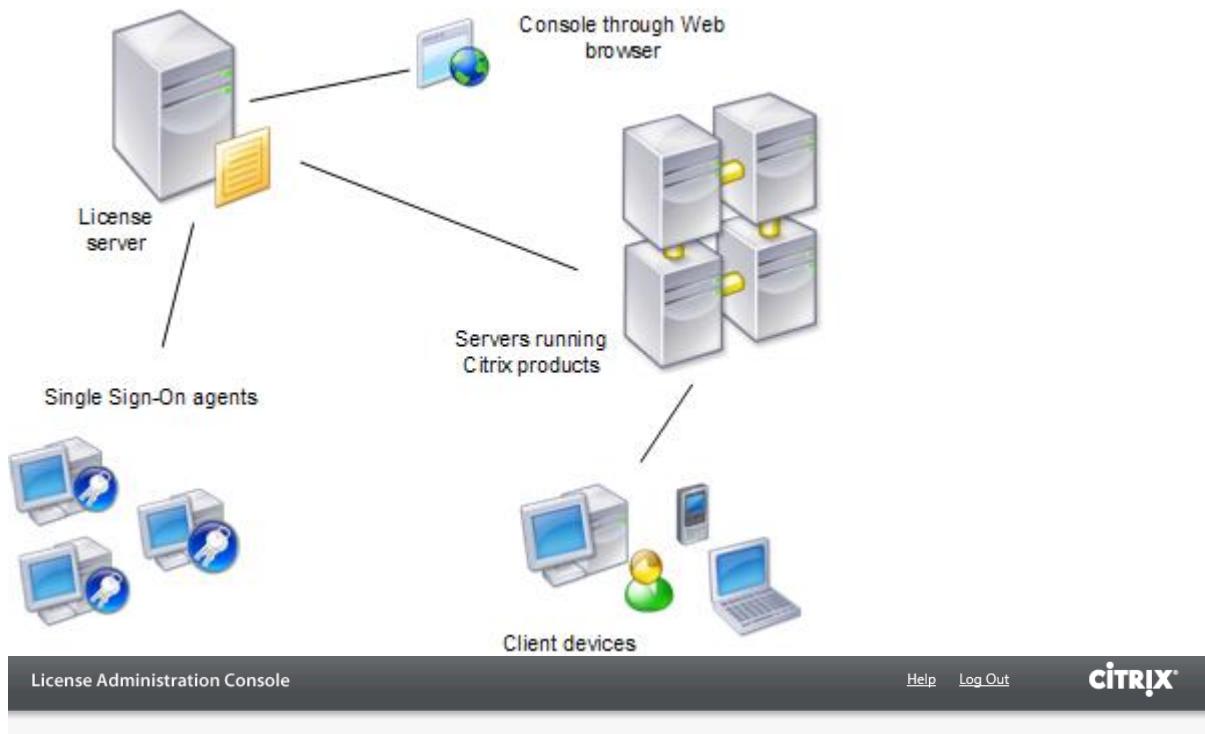
- 
- 1) Sample vDisk.5 [maint]
  - 2) Sample vDisk.4 [test]
  - 3) Sample vDisk.3
- 

```
Selection [1-3]:
```





## Chapter 7



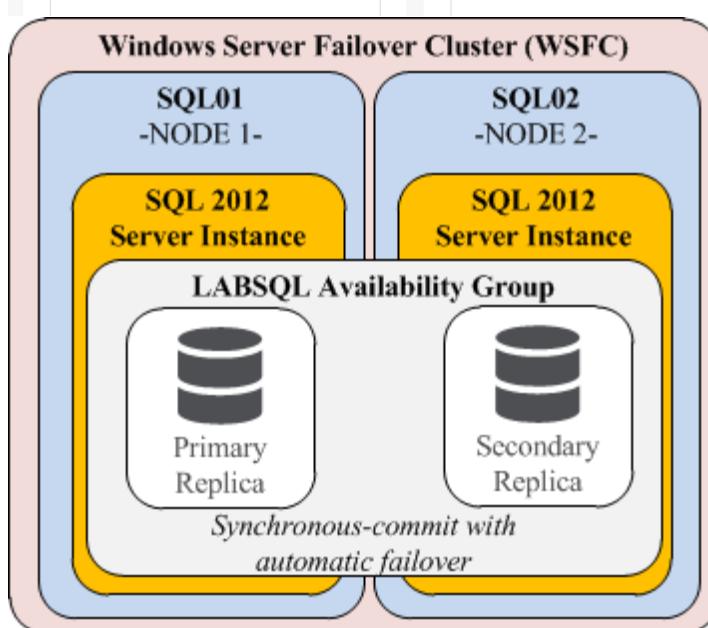
License Administration Console      Help Log Out      CITRIX®

Dashboard      Administration

Product	SA Date	In Use (Available)	Expiration
Citrix EdgeSight for Endpoints	Concurrent		
Citrix Provisioning Server for Desktops	Concurrent		
Citrix Provisioning Services	Concurrent		
Citrix Start-up License	Server		
Citrix StorageLink Enterprise	Concurrent		
Citrix XenApp Enterprise	Concurrent		
Citrix XenApp Platinum	Concurrent 2014.0422	0 (99)	21-JUL-2014      Evaluation

**Alerts**  
0 Critical

**Concurrent Licenses**  
Vendor Daemon: CITRIX



**Console Root**

- Citrix Studio (XenLab)**
  - Search
  - Machine Catalogs
  - Delivery Groups
  - Policies
  - Logging
- Configuration**
  - Administrators
  - Controllers
  - Hosting
  - Licensing
  - StoreFront
  - App-V Publishing

**Databases**

Datastore	Database Name
Site	CitrixXenLab
Logging	CitrixXenLab
Monitoring	CitrixXenLab

**Actions**

- View
- Refresh
- Help
- Logging** (highlighted with a red box)
- Change Database** (highlighted with a red box)
- Help

**Change Logging Database**

Enter new database location and name:

Server location: LABSQL\XENSQL

Database name: XenAppLogging

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

Generate database script...

OK Cancel

**Add Role Services**

**Select Role Services**

Role Services

DFS Namespaces

Namespace Type

Credentials

Namespace Configuration

Select the role services to install for File Services:

Role services:

- File Server (Installed)
- Distributed File System
- DFS Namespaces
- DFS Replication

**Create a DFS Namespace**

Role Services

DFS Namespaces

Namespace Type

Credentials

Namespace Configuration

Confirmation

Progress

Results

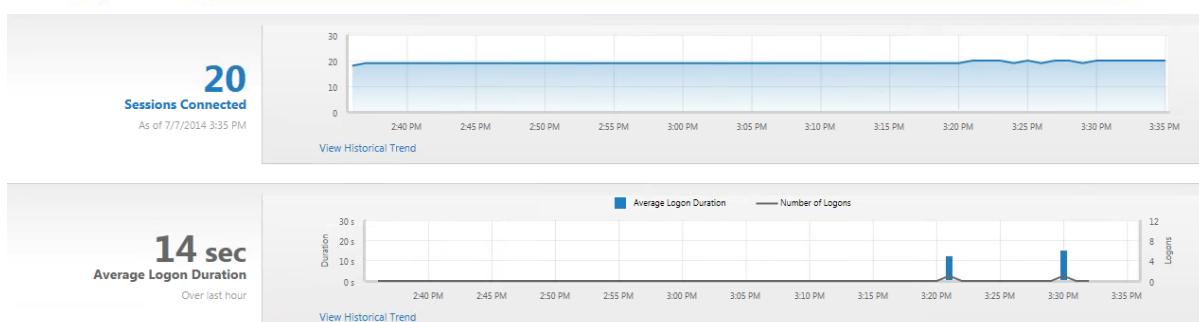
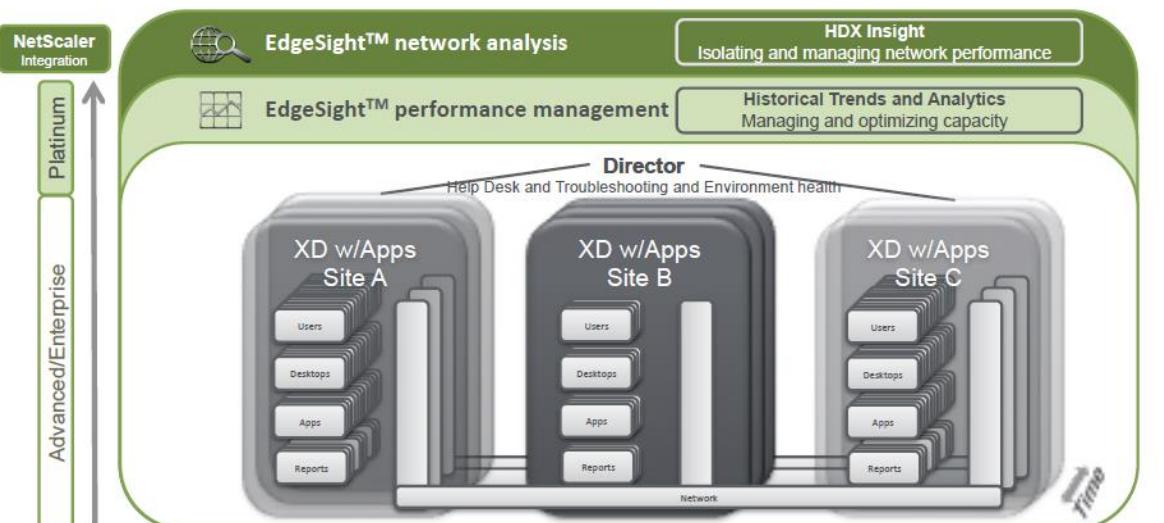
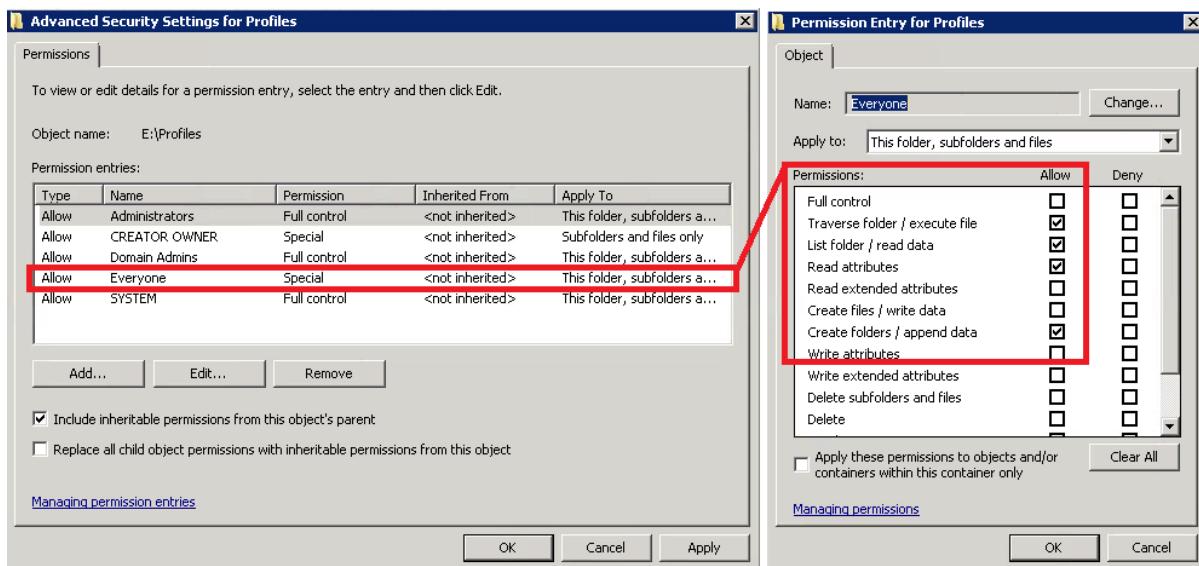
A DFS namespace is a virtual view of shared folders located on different servers in an organization. You can navigate the namespace without needing to know the server names or shared folder paths. A user views the namespace, the folders appear in a single, virtual namespace.

Create a namespace now, using this wizard

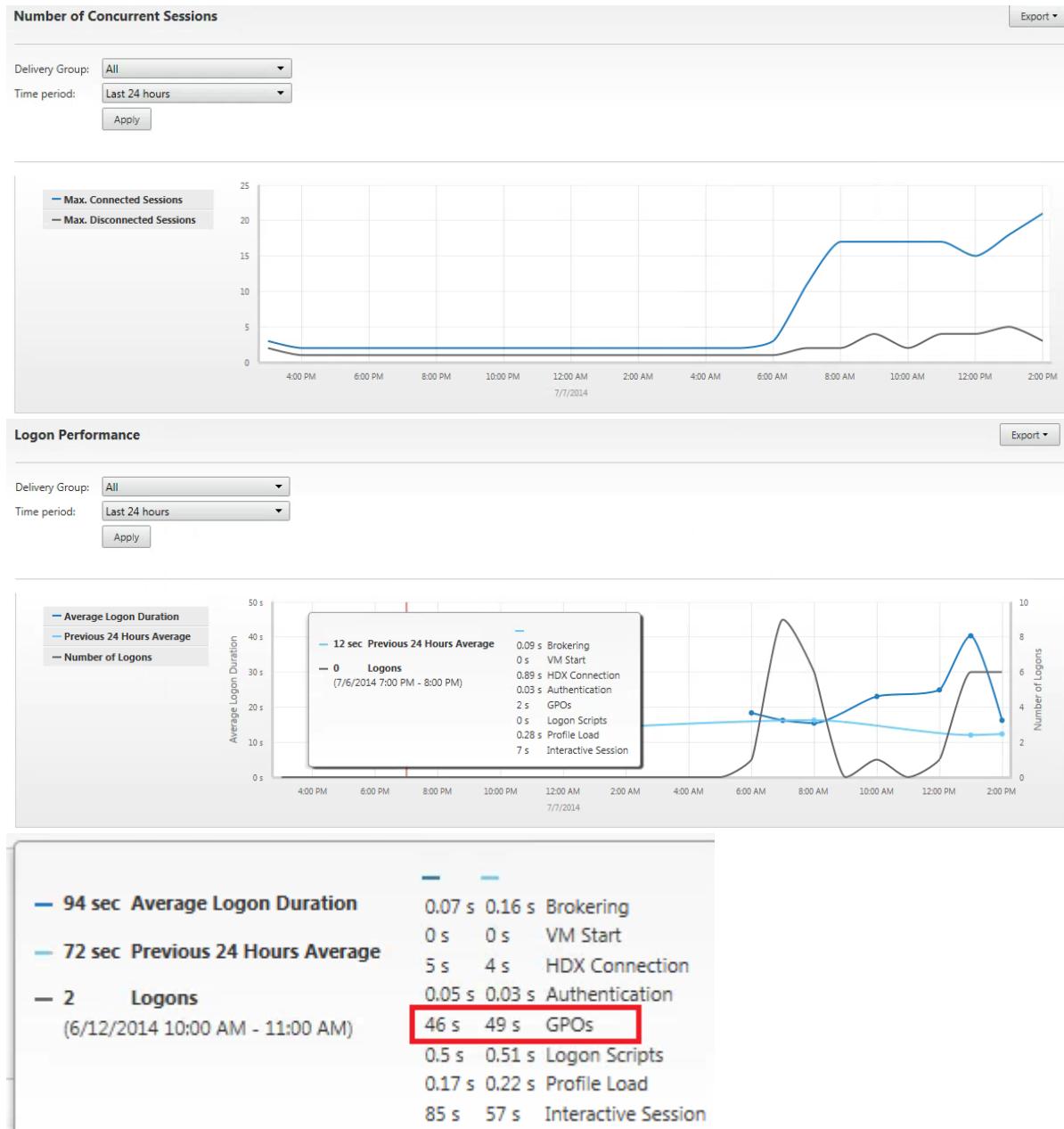
A namespace consists of a namespace server, folders, and folder targets.

Enter a name for this namespace: XENFS

Create a namespace later using the DFS Management snap-in in Server Manager



Infrastructure							
Host	Status	Delivery Controller	Status	Services	Site Database	License Server	Configuration Logging Database
Citrix Lab	✓ No Alerts	xa7501.xenlab.com	✓ Online	✓ No Alerts	✓ Connected	✓ Connected	✓ Connected
Xen2	✓ No Alerts	xa7502.xenlab.com	✓ Online	✓ No Alerts	✓ Connected	✓ Connected	✓ Connected



Director | EdgeSight | XenLab

**Connected** | **Test Applications (XENLAB\XA7501: 2)** | **UNMANAGED**

**Activity Manager**

**Applications** | **Processes**

**End Application**

**Application Name ▾**

- Citrix Studio
- Director - Windows Internet Explorer

Director | EdgeSight | XenLab

**Connected** | **Test Applications (XENLAB\XA7501: 2)** | **UNMANAGED**

**Activity Manager**

**Applications** | **Processes**

**End Application**

**Machine Details**

Power Control	Maintenance mode	Off
Machine name	XENLAB\XA7501	
Site name	XenLab	
Windows Connection Setting	Logon Enabled	
Registration state	Registered	
Delivery Group	Test Applications	
Machine Catalog	Controllers	
OS type	Windows 2008 R2 Service Pack 1	
Allocation type	Random	
Machine IP	192.168.1.31	
Organizational unit	CN=XA7501,CN=xenlab,DC=com	
VDA version	7.5.0.4523	
Host	n/a	

**Session Details**

ID	2
State	Active
Time in state	3 hours 17 minutes
Endpoint name	XenLab Test
Endpoint IP	192.168.1.127
Connection type	RDP
Receiver version	n/a
Latency	n/a
Launched via	n/a
Connected via	127.0.0.1

**Policies**

**Personalization**

**HDX**

**Download System Report**

Profile	Citrix Roaming Profile [Ver...]	
Profile size	10 MB [125 files, 104 folders]	
Profile data	Online	
Profile data path	\xenlab\xendfs\citrixprofil...	
Usage	205,637 MB of 511,996 MB	
Redirected folder	Online	
Redirected folder path	\xenlab\xendfs	
Contents	Documents, Pictures, Music,...	
Usage	205.6 GB of 512 GB	
Personal vDisk	Not applicable	

!	Adobe® Flash®	Virtual channel: Idle Flash redirection: Inactive
!	Smart Cards	Virtual channel: Idle Number of devices: 0
!	Graphics - Thinwire	Virtual channel: Active Still image compression: Medium
!	Scanner	Virtual channel: Idle Compression level: Medium
✓	Audio	Virtual channel: Idle Number of devices: 3
✓	Mapped Client Drives	Virtual channel: Idle Client drives available: 1
✓	Network	Bandwidth used: 0 % Average latency: 52 ms
✓	Printing	Mapped printers: 6 Virtual channel: Idle

## Chapter 8

All Settings ▾

**Profile Management**

- Advanced settings
- Basic settings
- Cross-Platform settings
- File system
  - Exclusions
  - Synchronization
- Folder Redirection
  - AppData(Roaming)
  - Common settings
  - Contacts
  - Desktop

Edit Profile Management

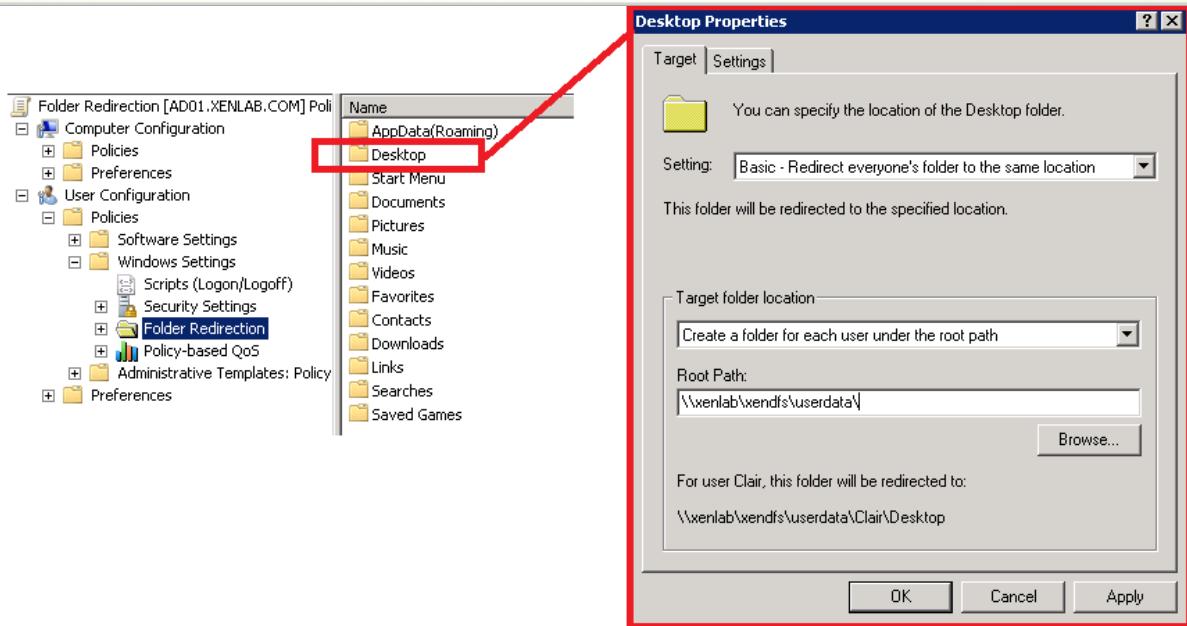
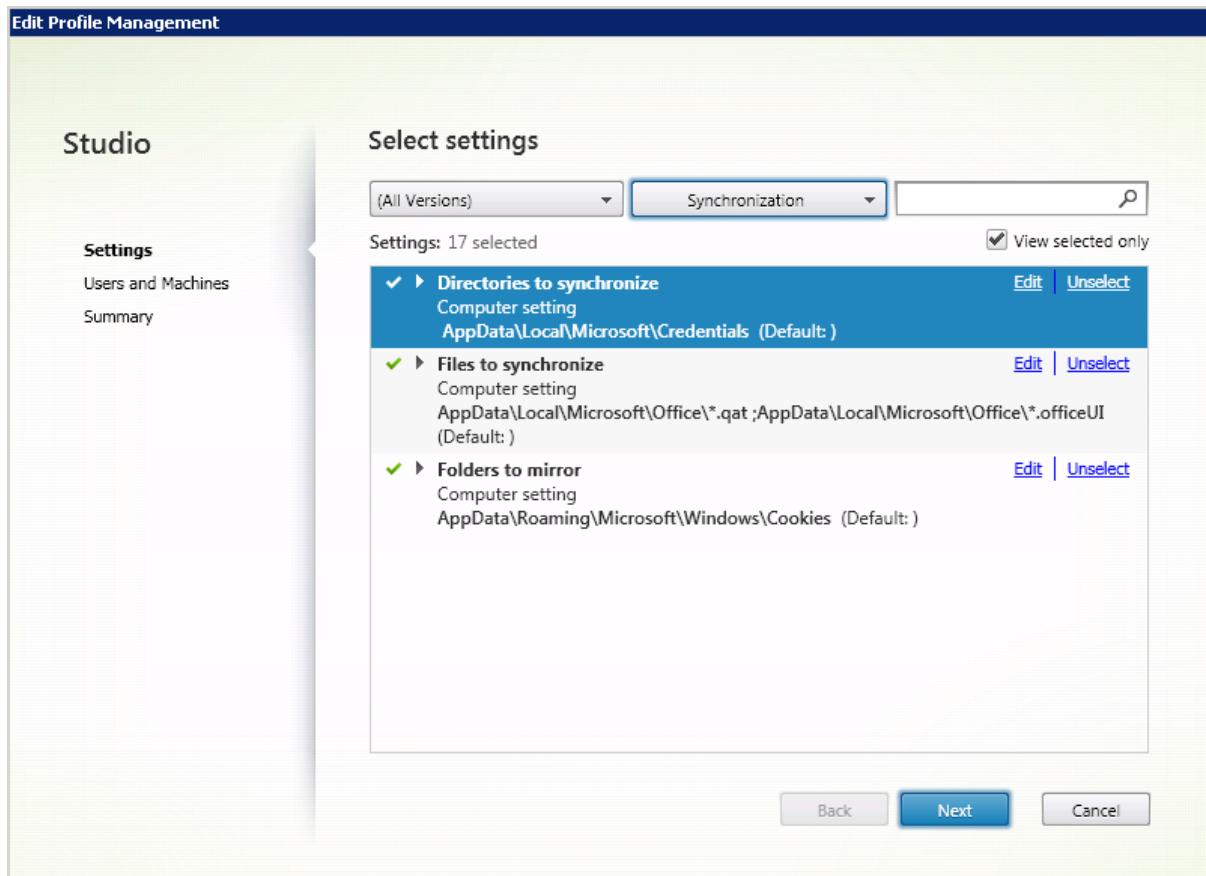
Studio Select settings

(All Versions) Basic settings ⌂

Settings: 17 selected  View selected only

Setting	Type	Description	Action
Active write back	Computer setting	Enabled (Default: Disabled)	<a href="#">Edit</a>   <a href="#">Unselect</a>
Enable Profile management	Computer setting	Enabled (Default: Disabled)	<a href="#">Edit</a>   <a href="#">Unselect</a>
Excluded groups	Computer setting	Not Configured (Default: )	<a href="#">Select</a>
Offline profile support	Computer setting	Not Configured (Default: Disabled)	<a href="#">Select</a>
Path to user store	Computer setting	\xenlab\xendfs\citrixprofiles%\username% (Default: Windows)	<a href="#">Edit</a>   <a href="#">Unselect</a>
Process logons of local administrators	Computer setting	Enabled (Default: Disabled)	<a href="#">Edit</a>   <a href="#">Unselect</a>

Back Next Cancel



Edit Profile Management

Studio

Select settings

(All Versions) Folder Redirection

Settings: 42 selected  View selected only

▶ AppData(Roaming) path	User setting	Not Configured (Default: )
▶ Contacts path	User setting	\xenlab\xendfs\userdata\ (Default: )
▶ Desktop path	User setting	\xenlab\xendfs\userdata\ (Default: )
▶ Documents path	User setting	\xenlab\xendfs\userdata\ (Default: )
▶ Downloads path	User setting	\xenlab\xendfs\userdata\ (Default: )
▶ Favorites path	User setting	\xenlab\xendfs\userdata\ (Default: )

Select | Edit | Unselect

Back Next Cancel

Console Root

citrix Studio (XenLab)

- Search
- Machine Catalogs
- Delivery Groups
- Policies**
- Logging

Configuration

- Administrators
- Controllers
- Hosting
- Licensing
- StoreFront
- App-V Publishing

Citrix StoreFront

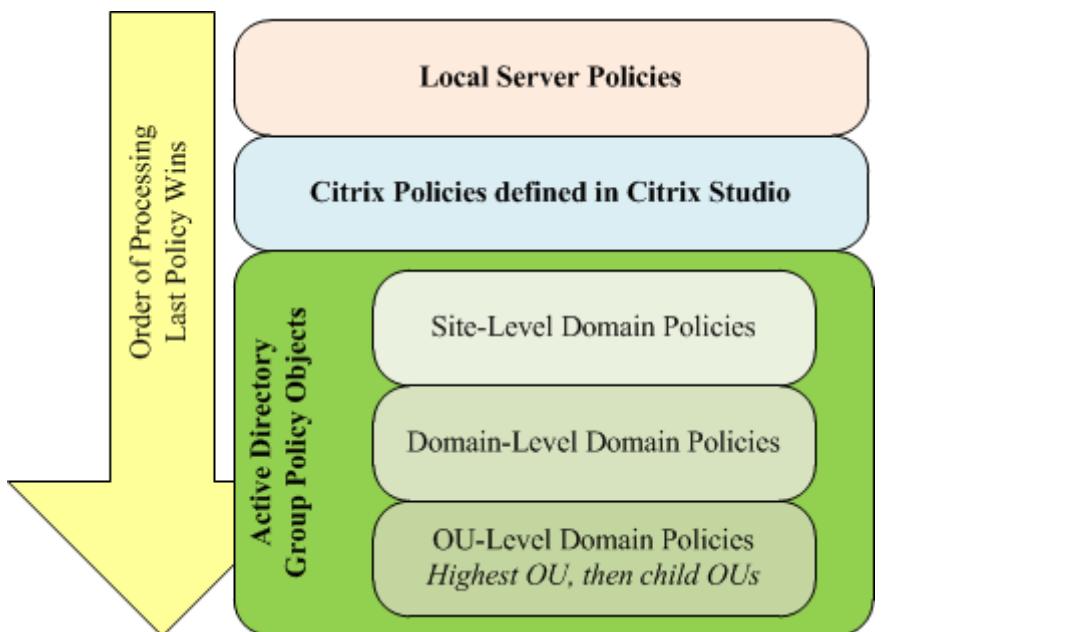
**CITRIX**

Policies Templates Comparison Modelling

## Policies

Policies

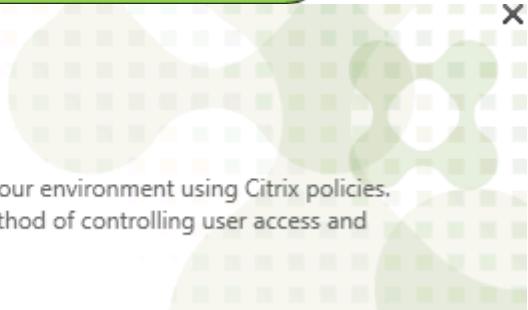
- 1 Printing Policy
- 2 Profile Management
- 3 Baseline Security Policy
- 4 Unfiltered



Welcome

## Citrix Policies

Control the overall end user experience in your environment using Citrix policies. Citrix policies provide the most efficient method of controlling user access and session environments.



X

### Create policies with predefined Citrix templates (recommended)

Create policies using templates that contain groups of preconfigured settings.

### Create policies manually

Create your own policies, adding and configuring individual settings.



Don't show this again

Close

## Policies

1	Printing Policy
2	Profile Management
3	<b>Baseline Security Policy</b>
4	Unfiltered

- Create Policy
- Edit Policy...
- Higher Priority**
- Lower Priority
- Enable Policy
- Disable Policy
- Save as Template...
- Delete Policy

## Select settings

(All Versions) ▾ All Settings ▾  View selected only

<input checked="" type="checkbox"/> Virtual Delivery Agent	All Settings
<input checked="" type="checkbox"/> 5.0	ICA
<input checked="" type="checkbox"/> 5.5	Adobe Flash Delivery
<input checked="" type="checkbox"/> 5.6 Feature Pack 1	Flash Redirection
<input checked="" type="checkbox"/> 7.0 Server OS	Audio
<input checked="" type="checkbox"/> 7.0 Desktop OS	Auto Client Reconnect
<input checked="" type="checkbox"/> 7.1 Server OS	Bandwidth
<input checked="" type="checkbox"/> 7.1 Desktop OS	Client Sensors
<input checked="" type="checkbox"/> 7.5 Server OS	Location
<input checked="" type="checkbox"/> 7.5 Desktop OS	Desktop UI
	End User Monitoring

Policies	Templates	Comparison	Modelling
----------	-----------	------------	-----------

## Compare templates and policies

Settings	Baseline Security Policy	Printing Policy
ICA	✓	
ICA\Adobe Flash Delivery\Flash Redirection	✓	
ICA\Desktop UI	✓	
ICA\File Redirection	✓	
ICA\Port Redirection	✓	
ICA\Printing	✓	✓
Client printer redirection	Prohibited	Allowed
Default printer	-	Set default printer to the client's main printer
ICA\Printing\Client Printers	✓	✓
ICA\Printing\Drivers		✓
ICA\TWAIN Devices	✓	
ICA\USB Devices	✓	

Citrix Group Policy Modeling Wizard

Summary of Selections

To make changes to your selections, click Back. To process the simulation, click Next.

Selection	Settings
User name	XENLAB\ctx.test1
Computer container	OU=Session Hosts,OU=XenApp75,OU=Citrix,DC=xenlab,DC...
Slow network simulation	
Loopback mode	
Site name	
User location	
Client IP address	
Client name	
Delivery group	
Delivery group type	
Tags	
NetScaler Gateway in use	
NetScaler Gateway farm name	
NetScaler Gateway tags	
Citrix CloudBridge in use	

Citrix Computer Policies

Setting	Value	Winning GPO / Citrix Policy
Enable Profile management	Enabled	Machine Site Settings/Profile Management
Process logons of local administrators	Enabled	Machine Site Settings/Profile Management
Path to user store	\\\ad01\DATA\Profiles\%username%	Machine Site Settings/Profile Management
Active write back	Enabled	Machine Site Settings/Profile Management
Delete locally cached profiles on logoff	Enabled	Machine Site Settings/Profile Management
Local profile conflict handling	Use local profile	Machine Site Settings/Profile Management
Process Internet cookie file on logoff	Enabled	Machine Site Settings/Profile Management
Enable logging	Enabled	Machine Site Settings/Profile Management
File system notifications	Enabled	Machine Site Settings/Profile Management
Logon	Enabled	Machine Site Settings/Profile Management
Logoff	Enabled	Machine Site Settings/Profile Management
Personalized user information	Enabled	Machine Site Settings/Profile Management
Exclusion list - directories	AppData\Local\{AppData\LocalLow\;AppData\Roaming\}Citrix\PNAgent\{AppCache\;AppData\Roaming\}Citrix\PNAgent\Icon Cache\;AppData\Roaming\}Citrix\PNAgent\Resou	Machine Site Settings/Profile Management

Processing the simulation on the AD01.xenlab.com

Citrix User Policies

Setting	Value	Winning GPO / Citrix Policy
Auto connect client drives	Disabled	User Site Settings/Baseline Security Policy
Client optical drives	Prohibited	User Site Settings/Baseline Security Policy
Client fixed drives	Prohibited	User Site Settings/Baseline Security Policy
Client network drives	Prohibited	User Site Settings/Baseline Security Policy
Client removable drives	Prohibited	User Site Settings/Baseline Security Policy
Client TWAIN device redirection	Prohibited	User Site Settings/Baseline Security Policy
Flash acceleration	Disabled	User Site Settings/Baseline Security Policy
Auto-create client printers	Do not auto-create client printers	User Site Settings/Baseline Security Policy
Direct connections to print servers	Disabled	User Site Settings/Baseline Security Policy
Desktop wallpaper	Prohibited	User Site Settings/Baseline Security Policy
Client COM port redirection	Prohibited	User Site Settings/Baseline Security Policy
Client drive redirection	Prohibited	User Site Settings/Baseline Security Policy
Client LPT port redirection	Prohibited	User Site Settings/Baseline Security Policy
Client printer redirection	Prohibited	User Site Settings/Baseline Security Policy
Client clipboard redirection	Prohibited	User Site Settings/Baseline Security Policy
Client USB\Plus and \Plus\device redirection	Prohibited	User Site Settings/Baseline Security Policy

## 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
- ▶ **Delivery Group type** [Assign](#)  
Applies to all settings
- ▶ **Organizational Unit (OU)** [Assign](#)  
Applies to all settings
- ▶ **Tag** [Assign](#)  
Applies to all settings
- ▶ **User or group** [Assign](#)  
Applies to user settings only

Back

Next

Cancel

## Printing Policy

Overview   Settings   **Assigned to**

- ▼ **Access control**  
Applies to user settings only  
**Deny - \*, \***  
Apply policy based on the access control conditions through which a client connects.

- ▼ **Client IP address**  
Applies to user settings only  
**Allow - 10.2.0.0**  
Apply policy based on the IP address of the user device used to connect to the session.

- ▼ **User or group**  
Applies to user settings only  
**Allow - XENLAB\Auditors**  
Apply policy based on the user or group membership of the user connecting to the session.

**Computer Configuration (Enabled)**

Policies		hide
<b>Administrative Templates</b>		
Policy definitions (ADMX files) retrieved from the local machine.		
<b>Network/ Offline Files</b>		show
<b>System/ Group Policy</b>		show
<b>Windows Components/ Remote Desktop Services/ Remote Desktop Session Host/ Licensing</b>		show
<b>Windows Components/ Remote Desktop Services/ Remote Desktop Session Host/ Session Time Limits</b>		show

**User Configuration (Enabled)**

Policies		hide
<b>Windows Settings</b>		
<b>Administrative Templates</b>		hide
Policy definitions (ADMX files) retrieved from the local machine.		
<b>Control Panel/ Personalization</b>		show
<b>Network/ Offline Files</b>		show
<b>Start Menu and Taskbar</b>		show
<b>System/ Folder Redirection</b>		show
<b>System/ User Profiles</b>		show
<b>Windows Components/ Internet Explorer</b>		show
<b>Windows Components/ Internet Explorer/ Internet Control Panel/ Advanced Page</b>		show
<b>Windows Components/ Windows Explorer</b>		show

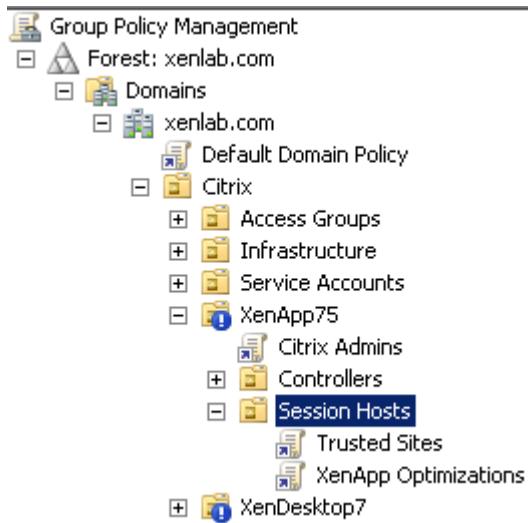
**Preferences**

Trusted Sites		show
Scope   Details   Settings   Delegation		
Domain:	kenlab.com	
Owner:	Domain Admins (KENLAB\Domain Admins)	
Created:	7/11/2014 5:12:14 PM	
Modified:	7/11/2014 5:47:02 PM	
User version:	0 (AD), 0 (sysvol)	
Computer version:	0 (AD), 0 (sysvol)	
Unique ID:	(DC62E0D4-0C52-494C-B453-85C651EBF99F)	
GPO Status:	<input type="button" value="User configuration settings disabled"/>	

Computer Configuration (Enabled)		hide
<b>Policies</b>		
<b>Administrative Templates</b>		
Policy definitions (ADMX files) retrieved from the local machine.		
<b>System</b>		show
<b>System/ Group Policy</b>		show
<b>System/ Logon</b>		show
<b>Windows Components/ Internet Explorer</b>		show
<b>Windows Components/ Internet Explorer/ Internet Control Panel/ Advanced Page</b>		show
<b>Windows Components/ Internet Explorer/ Internet Control Panel/ Security Page</b>		show
<b>Windows Components/ Internet Explorer/ Internet Control Panel/ Security Page/ Trusted Sites Zone</b>		show

User Configuration (Disabled)		hide
No settings defined.		



## Select settings

(All Versions) ▾

Settings: 8 selected

- ✓ ▶ Auto-create client printers
- User setting
- Auto-create all client printers
- ✓ ▶ Auto-create generic universal printers
- User setting
- Disabled (Default: Disabled)
- ✓ ▶ Automatic installation
- User setting
- Disabled (Default: Enabled)
- ✓ ▶ Client printer names
- User setting
- Standard printer names
- ✓ ▶ Client printer redirection
- User setting
- Allowed (Default: Allowed)
- ✓ ▶ Default printer
- User setting
- Set default printer to the client's main printer (Default: Set default printer to the client's main printer)

Printing ▾

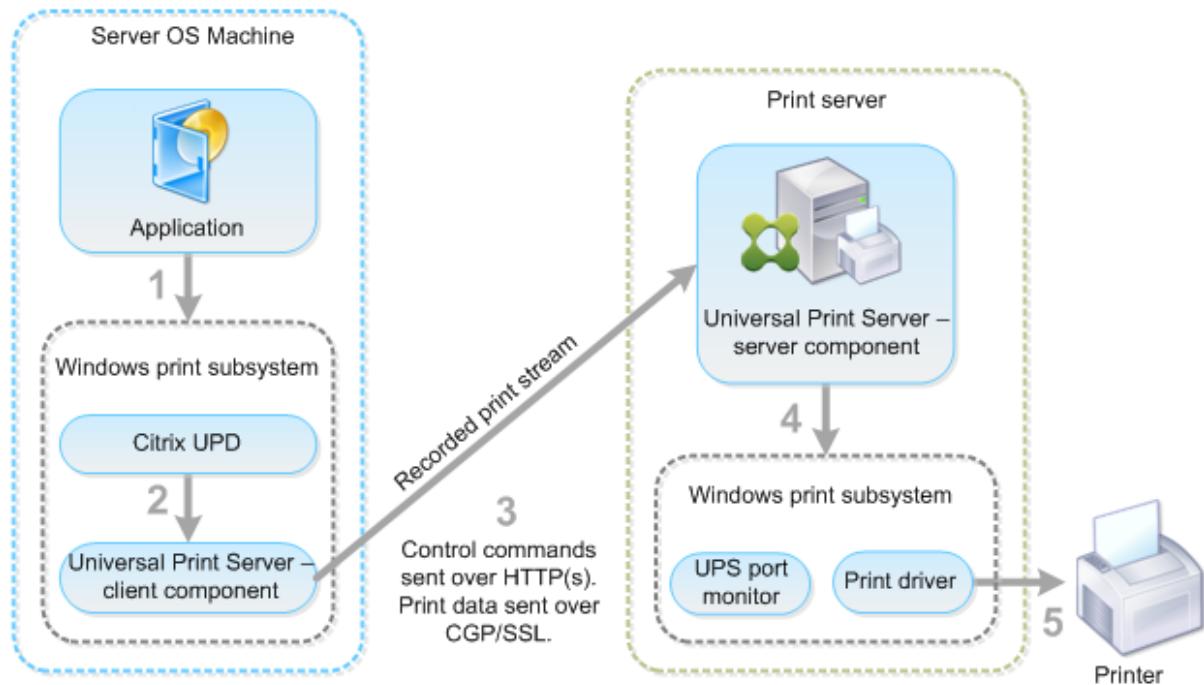
Printing

- Client Printers
- Drivers
- Universal Print Server
- Universal Printing
- Security
- Server Limits
- Session Limits
- Session Reliability
- Time Zone Control
- TWAIN Devices
- USB Devices

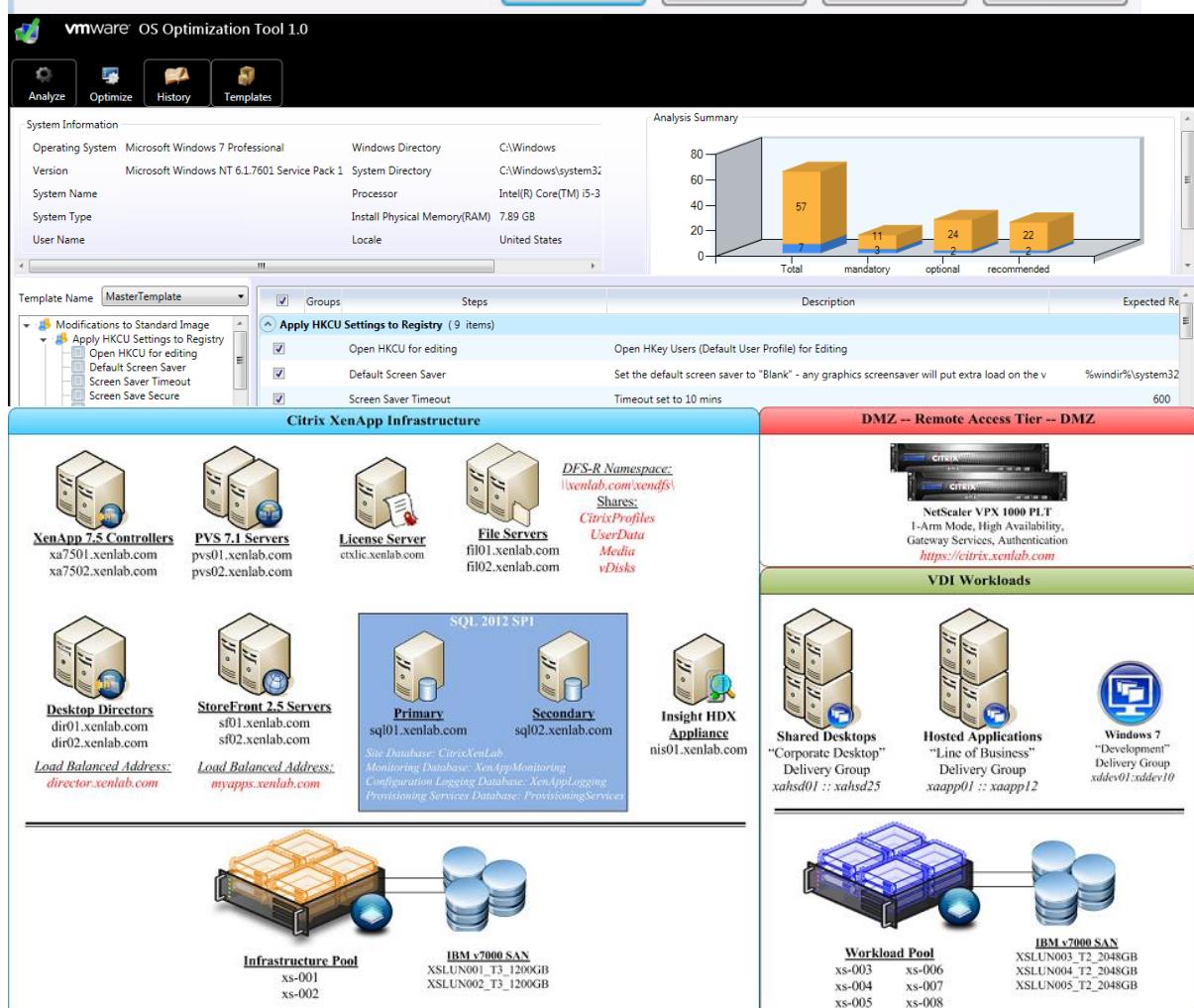
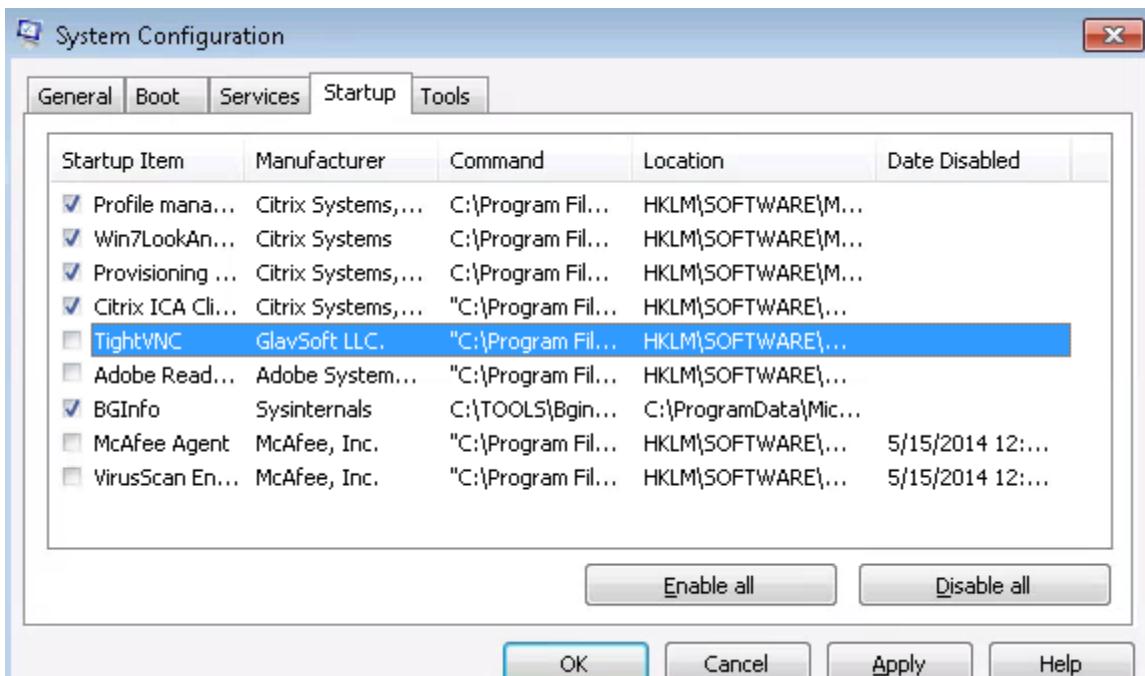
View selected only

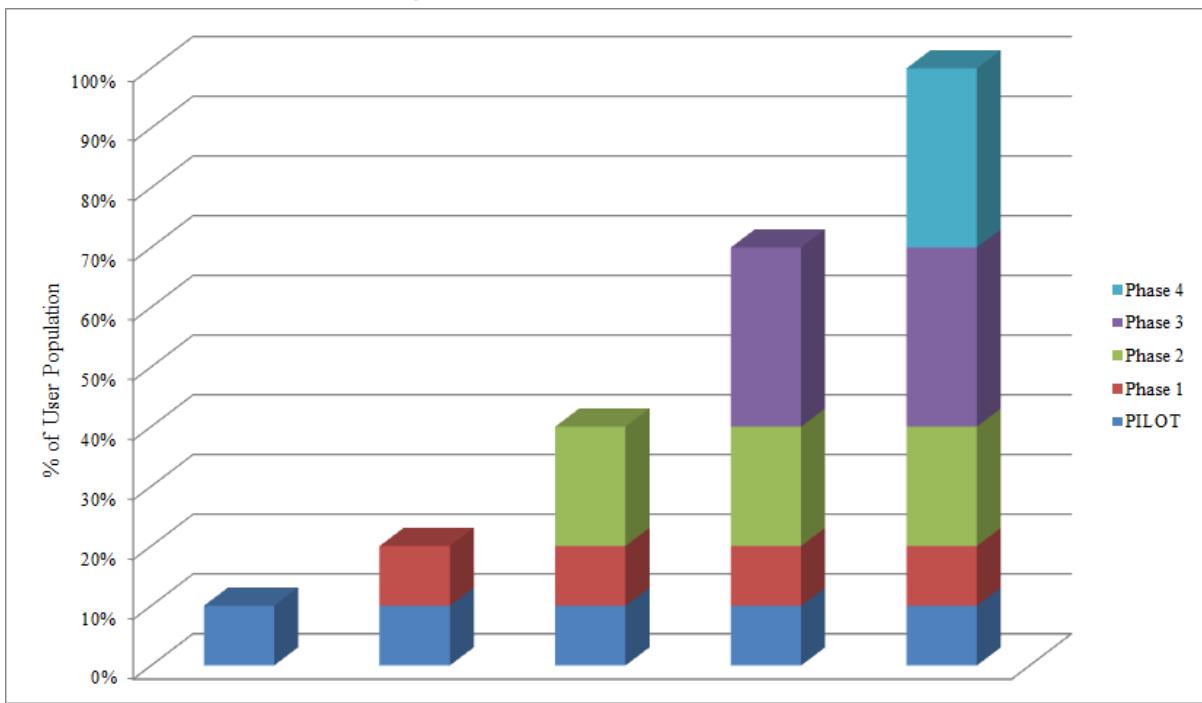
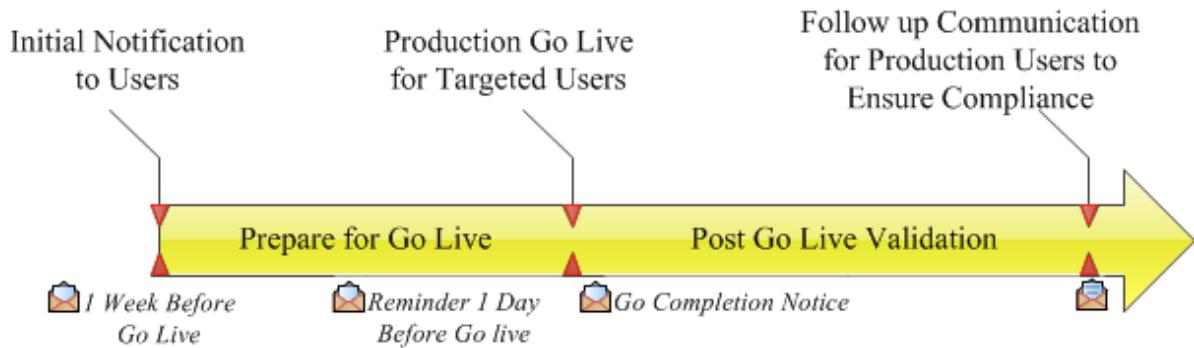
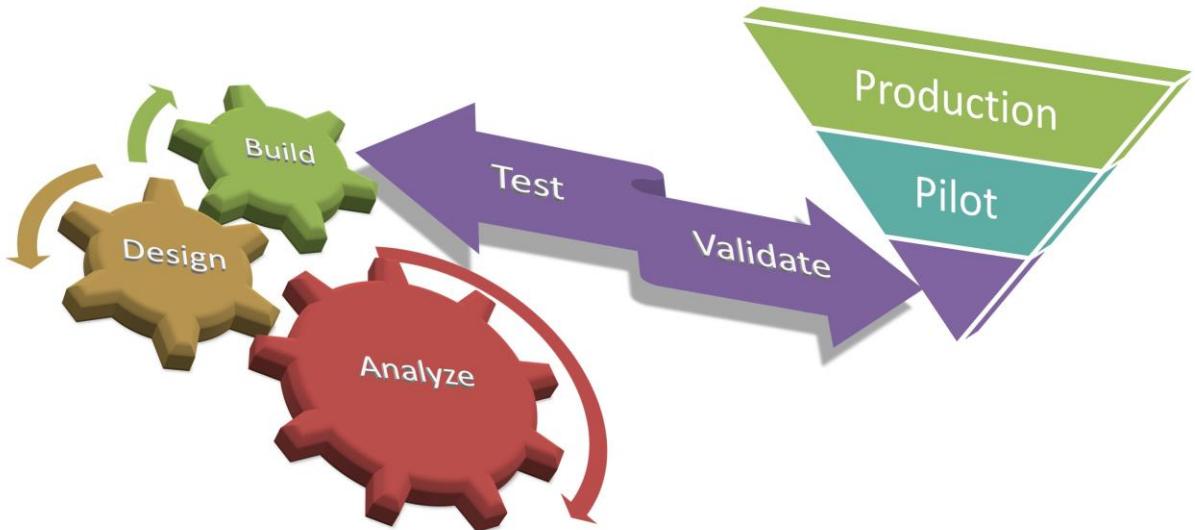
Client printers

- Edit | Unselect



## Chapter 9





**CITRIX**

Administrators	Scopes	Roles	
XENLAB\administrator	All	Full Administrator	Enabled
XENLAB\andy.paul	All	Full Administrator	Enabled
XENLAB\CitrixHelpDesk	All	Help Desk Administrator	Enabled
XENLAB\consult001	All	Read Only Administrator	Enabled
XENLAB\CTXADMIN	All	Full Administrator	Enabled
XENLAB\jane.smith	Legacy App	Delivery Group Administrator	Enabled

**Create Administrator**

**Studio**

**Role**

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

Name	Type
<b>Delivery Group Administrator</b> Can deliver applications, desktops, and machines; can also manage the a...	Built In
<b>Full Administrator</b> Can perform all tasks and operations.	Built In
<b>Help Desk Administrator</b> Can view Delivery Groups, and manage the sessions and machines assoc...	Built In
<b>Host Administrator</b> Can manage host connections and their associated resource settings.	Built In
<b>Machine Catalog Administrator</b> Can create and manage Machine Catalogs and provision machines.	Built In
<b>Read Only Administrator</b> Can see all objects in specified scopes as well as global information, but...	Built In

**Create role...**

**Back** **Next** **Cancel**

## Create Role

Define a role for this administrator based on the permissions to manage different features.

Name:

*Example: My New Role*

Description:

*Example: My New Role Description*

Permissions:

The screenshot shows a tree view of permissions. Under 'Delivery Groups', the 'Manage' category is selected, indicated by a radio button. This category contains several checkboxes for tasks like adding applications to a delivery group, changing users assigned to a desktop, and creating delivery groups. Other categories like 'App-V' and 'Controllers' are also listed but are not expanded.

- ▶  App-V
- ▶  Controllers
- ▲  Delivery Groups
  - No Access
  - Read Only
  - Manage
    - Add Application to Delivery Group
    - Add Delivery Group to Scope
    - Add Machines to Delivery Group
    - Attach Local Access Application to Delivery Group
    - Change users assigned to a desktop
    - Change users assigned to an application
    - Create Application
    - Create Delivery Group
    - Delete Application

Save

Cancel

## Create Scope

Define a scope for this administrator based on the objects in your deployment.

Name:

*Example: My New Scope*

Description:

*Example: My New Scope Description*

Objects:

- ▶  Delivery Groups
  - Test Applications  
keywords:treatasapp
  - Line of Business
  - Legacy
- ▶  Machine Catalogs
- ▶  Hosting

Select all objects of a particular type or specific objects within a type.

Save

Cancel



**Connection Failures**

Machine type: All  
Failure type: All  
Delivery Group: All  
Time period: Custom From 4/1/2014 Apply

Events (4/23/2014 12:00 AM - 4/24/2014 12:00 AM)

- 4/23/2014 XENLAB\Administrator 9:34 PM Edit Machine 'XENLAB\XA7502'
- 4/23/2014 XENLAB\Administrator 9:03 PM Update File Type Associations on Desktop 'XENLAB\XA7501'
- 4/23/2014 XENLAB\Administrator 9:02 PM Update File Type Associations on Desktop 'XENLAB\XA7501'
- 4/23/2014 XENLAB\Administrator 8:47 PM Add Machines to Delivery Group 'Test Applications'

**Failed Server OS Machines**

Failure type: All  
Delivery Group: All  
Time period: Last month Apply

3 Max. Failed Machines (6/25/2014 12:00 AM - 6/26/2014 12:00 AM)

**Logon Performance**

Delivery Group: All  
Time period: Last month Apply

**Users**

Avg ICA RTT 25 ms  
Avg Bandwidth 1.46 Kbps  
# Users 6

Avg ICA RTT ▲ # Users ■

Avg ICA RTT – High: 47 ms (13 May, 10:33 am) Low: 0 ms (13 May, 4:33 pm) 95th Percentile: 47 ms # Users – High: 3 (13 May, 4:33 pm) Low: 0 (13 May, 9:33 am) 95th Percentile: 3

Name	Avg Client Latency	Avg Server Latency	# App Launches	Avg ICA RTT	Avg Bandwidth
nagarajbh@citrite	2 ms	0 ms	0	47 ms	155 bps
nagarajbh	0 ms	1 ms	1	21 ms	225 bps
nagaraj	0 ms	0 ms	1	19 ms	100 bps
prakashman	274 ms	229 ms	6	0 ms	1011 bps

Search ▾  
25 Per Page ▾ 1 ~ 4 of 4 ▾ 1 ▾

☰ XenAppMonitoring

- + Database Diagrams
- Tables
  - + System Tables
  - + FileTables
  - + MonitorData.Catalog
  - + MonitorData.Connection
  - + MonitorData.ConnectionFailureCategory
  - + MonitorData.ConnectionFailureLog
  - + MonitorData.DesktopGroup
  - + MonitorData.FailureLogSummary
  - + MonitorData.Hypervisor
  - + MonitorData.LoadIndex
  - + MonitorData.LoadIndexSummary
  - + MonitorData.Machine
  - + MonitorData.MachineFailureLog
  - + MonitorData.SchemaFeatures
  - + MonitorData.Session
  - + MonitorData.SessionActivitySummary
  - + MonitorData.TaskLog
  - + MonitorData.UpdatePackages
  - + MonitorData.User
  - + MonitorData.Version

---

```

Select [MonitorData].[user].UserName as 'User',
[MonitorData].[Session].StartDate as 'Login Time',
[MonitorData].[Machine].DnsName as 'Server Name'
from [MonitorData].[Session]
join [MonitorData].[user]
on [MonitorData].[user].ID = [MonitorData].[Session].UserID
join [MonitorData].[Machine]
on [MonitorData].[Session].Machineid = [MonitorData].[Machine].ID
Where [MonitorData].[user].UserName = 'jane.smith'
Order by [MonitorData].[Session].StartDate DESC
  
```

100 %

	User	Login Time	Server Name
1	jane.smith	2014-07-10 19:18:33.793	xahsd05.xenlab.com
2	jane.smith	2014-07-10 18:38:24.030	xahsd08.xenlab.com
3	jane.smith	2014-07-01 21:13:24.430	xahsd11.xenlab.com
4	jane.smith	2014-06-26 17:22:59.873	xahsd18.xenlab.com
5	jane.smith	2014-06-19 19:41:09.780	xahsd21.xenlab.com

**Actions**

- Search
- Select Columns** (highlighted with a red box)
- View
- Refresh
- Help

**Select Columns**

IP Address

- Applications
  - Applications In Use
  - Published Applications
- Registration
  - Broker
  - Last Deregistration Reason
  - Last Deregistration Time
  - Registration State

OK Cancel

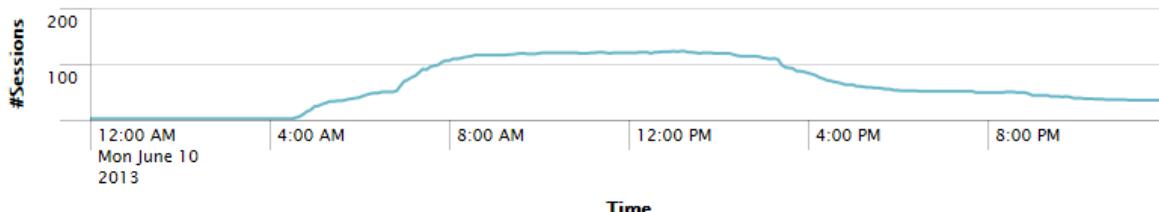
Last Deregistration Reason	Registration State
Session Prepare Failure	Unregistered
Agent Shutdown	Registered
Agent Shutdown	Unregistered
Agent Shutdown	Unregistered

**Application** Number of events: 3,936

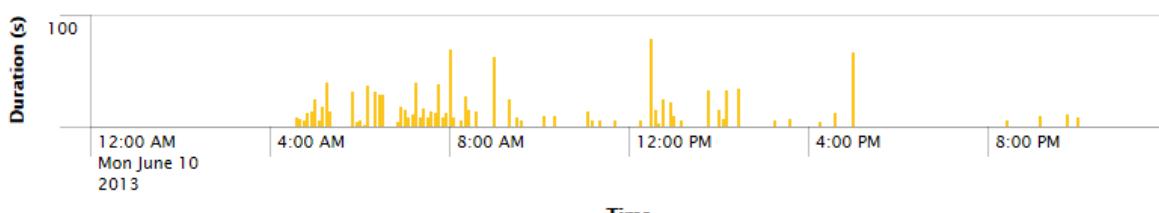
Level	Date and Time	Source	Event ID	Task C..
(i) Information	5/15/2014 11:54:32 AM	StreamProcess	10	None
(i) Information	5/15/2014 11:26:59 AM	StreamProcess	10	None
(i) Information	5/15/2014 11:16:41 AM	StreamProcess	10	None Device XAHSD02 boot time: 1 minutes 25 seconds.
(i) Information	5/15/2014 11:16:41 AM	StreamProcess	10	None
(i) Information	5/15/2014 11:16:31 AM	StreamProcess	10	None Service granted for device XAHSD02, IP 192.168.1.177:6901
(i) Information	5/15/2014 11:15:34 AM	StreamProcess	10	None Device XAHSD03 moved to 192.168.1.36:6910 for IO
(i) Information	5/15/2014 11:15:34 AM	StreamProcess	10	None
(i) Information	5/15/2014 11:15:21 AM	StreamProcess	10	None Login initiated for device XAHSD03
(i) Information	5/15/2014 11:10:43 AM	StreamProcess	10	None
(i) Information	5/15/2014 11:10:43 AM	StreamProcess	10	None
(i) Information	5/15/2014 11:10:34 AM	StreamProcess	10	None

Time range: **Last 24 hours**

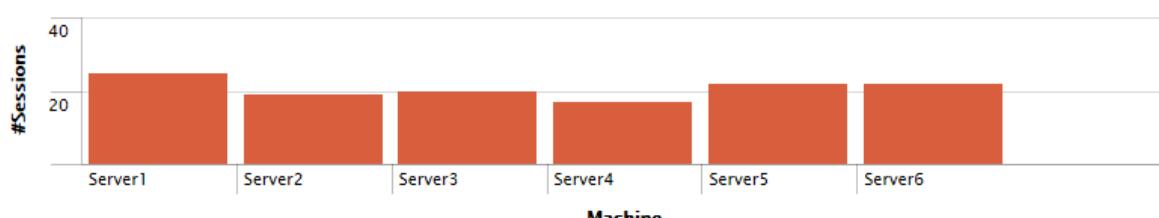
Number of user sessions over time



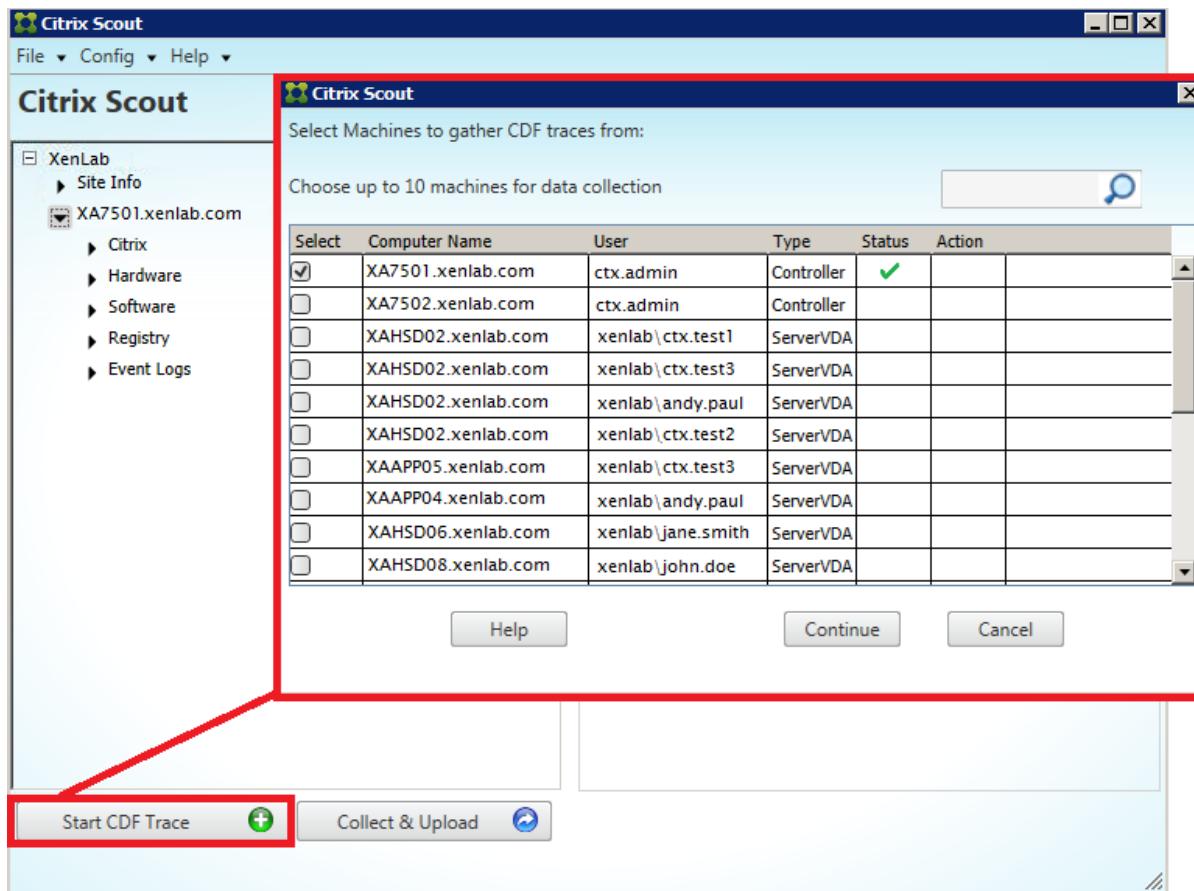
Average logon duration over time



User sessions per machine



Process	PID	CPU	Description	Company Name
System Idle Process	0	97.40		
Interrupts	n/a	0.77	Hardware Interrupts	
DPCs	n/a	0.38	Deferred Procedure Calls	
System	4			
smss.exe	508		Windows Session Manager	Microsoft Corporation
csrss.exe	656		Client Server Runtime Process	Microsoft Corporation
conhost.exe	1660		Console Window Host	Microsoft Corporation
csrss.exe	728		Client Server Runtime Process	Microsoft Corporation
conhost.exe	948		Console Window Host	Microsoft Corporation
conhost.exe	3512		Console Window Host	Microsoft Corporation
conhost.exe	15596		Console Window Host	Microsoft Corporation
wininit.exe	736		Windows Start-Up Application	Microsoft Corporation
services.exe	832		Services and Controller app	Microsoft Corporation
svchost.exe	940		Host Process for Windows S...	Microsoft Corporation
unsecapp.exe	2396		Sink to receive asynchronou...	Microsoft Corporation
WmiPrvSE.exe	1860		WMI Provider Host	Microsoft Corporation
unsecapp.exe	7604		Sink to receive asynchronou...	Microsoft Corporation
ptSrv.exe	3296		ptService Module	Cisco WebEx LLC
WmiPrvSE.exe	5432		WMI Provider Host	Microsoft Corporation
UcMapi.exe	6604		Microsoft Lync 2010 MAPI C...	Microsoft Corporation
AuthManSvr.exe	4296		Authentication Manager Ser...	Citrix Systems, Inc.
wfcrun32.exe	16300		Citrix Connection Manager	Citrix Systems, Inc.
concentr.exe	15672		Citrix Connection Center	Citrix Systems, Inc.
nvvsvc.exe	160		NVIDIA Driver Helper Servic...	NVIDIA Corporation
nvxdsync.exe	6948		NVIDIA User Experience Dri...	NVIDIA Corporation
nvtray.exe	7576		NVIDIA Settings	NVIDIA Corporation
nvvsvc.exe	6956		NVIDIA Driver Helper Servic...	NVIDIA Corporation
svchost.exe	548		Host Process for Windows S...	Microsoft Corporation
svchost.exe	1036		Host Process for Windows S...	Microsoft Corporation
audiogd.exe	11988		Windows Audio Device Grap...	Microsoft Corporation
svchost.exe	1072		Host Process for Windows S...	Microsoft Corporation
	1052			



**Upload Data**

Filter by ▾

Action ▾

Date Range: How to Collect Data

<input type="checkbox"/>	Issues	Product	Description	Upload Identifi
<input type="checkbox"/>	No Issues Detected	XenDesktop	Lab Sample	XenLab

Details: Lab Sample : Scout-2014-08-01-103832-XenLab.zip

**XenDesktop 7 Overview**

Analysis Results

**XenDesktop 7 Overview****Health Check Summary****Health Check Summary**

Environment

Connection Overview

Controller Overview

VDA Overview

Applications

Log Viewers BetaCitrix Hotfix BetaMicrosoft Hotfix Beta**Diagnostic Report (0 live alerts)**

We are constantly feeding Insight Services new problem and best practice information. [Click here](#) to open a case with Support (support contract required), or see our [FAQ](#).