Communication ports used by Citrix Technologies

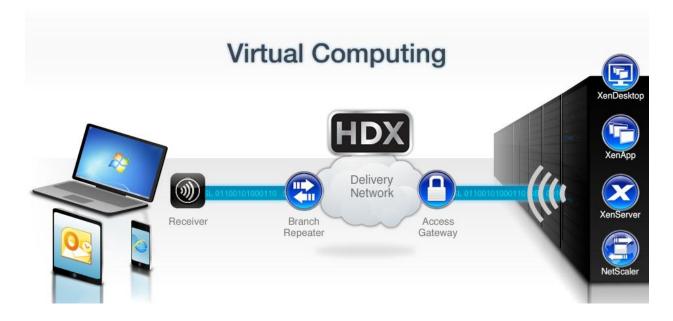
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Overview

Introduction

This document provides an overview of ports that are used by Citrix components and must be considered as part of Virtual Computing architecture, especially if communication traffic traverses network components such as firewalls or proxy servers, where ports must be opened to ensure communication flow.



References

The assignments are listed by the Internet Assigned Numbers Authority (IANA), updated regularly, and revised when new information is available and new assignments are made. The specific location of the port numbers list is available at the following Web site: http://www.iana.org/assignments/port-numbers.

Microsoft Article "Network Ports Used by Key Microsoft Server Products".

Microsoft Article ID <u>832017</u> "Service overview and network port requirements for the Windows Server system".

Ports by Product

Component	Туре	Port	Details
Citrix License Server			
License Manager Daemon	ТСР	27000	Handles initial point of contact for license requests (Lmadmin.exe)
Citrix Vendor Daemon	TCP	7279	Check-in/check-out of Citrix licenses (Citrix.exe)
License Management Console	TCP	8082	Web-based administration console (Lmadmin.exe)
CloudStack			
CloudStack Management Server	ТСР	9090 + 8250 (bi-directional)	To/from CloudStack Management Server
User/Client/API	ТСР	8080	User/Client/API to CloudStack Management Server - Management Port (authenticated communication)
User/Client	ТСР	8096	User/Client to CloudStack Management Server - Management Port (unauthenticated communication)
vCenter	TCP	443	CloudStack Management Server to vCenter
KVM	TCP	22	CloudStack Management Server to KVM
XenServer	TCP	22/80/443	CloudStack Management Server to XenServer
MySQL	TCP	3306	CloudStack Management Server to MySQL
DNS	TCP	53	CloudStack Management Server to DNS
Secondary Storage	TCP	3922	CloudStack Management Server to SSVM
Virtual Machine (SSVM)	TCP	8250	SSVM to CloudStack Management Server
	ТСР	80/443	SSVM to HTTP(s) File Share to download VM Image
	TCP	111/2049	SSVM to NFS
	TCP	53	SSVM to DNS
Console Proxy VM	ТСР	3922	CloudStack Management Server to Console Proxy VM
	ТСР	8250	Console Proxy VM to CloudStack Management Server
	TCP	53	Console Proxy VM to DNS
Virtual Router	TCP	3922	CloudStack Management Server to Virtual Router
	TCP	8250	Virtual Router to CloudStack Management Server
	TCP	53	Virtual Router to DNS
NFS	ТСР	111/2049	CloudStack Management Server to NFS (initial deployment of SSVM and CPVM
Common Citrix Communication	Ports		
Citrix Receiver	TCP	80/443	Communication with Merchandising Server
ICA / HDX	TCP	1494	Access to applications and virtual desktops
Session Reliability	TCP	2598	Access to applications and virtual desktops
IMA	TCP	2512	Independent Management Architecture (IMA)
Management Console	TCP	2513	Citrix Management Consoles

Component	Type	Port	Details
Application / Desktop Request	TCP	80/8080/443	XML Service
STA	ТСР	80/8080/443	Secure Ticketing Authority (embedded into XML Service)
XenApp			
Offline Plug-in	SMB	445	Communication with Application Hub (File Server / Share)
	HTTP/S	80/443	Communication with Application Hub (Web Server / File Server / Share)
Power & Capacity Management Agent	ТСР	11168	Communication with Concentrator
Database	TCP	1433	Microsoft SQL Server
	ТСР	1434	Microsoft SQL Server. Note : Named instance connection requires UDP 1434
XenDesktop			
Virtualization Infrastructure			
Citrix XenServer	TCP	80/443	Communication with XenServer infrastructure
Microsoft Hyper-V	ТСР	8100	SCVMM Administrator Console
VMware vSphere	TCP	443	VMware Web Services communication
Broker	ТСР	80/443	Used by process BrokerService.exe for WCF communications to VDA, SDK, XML Service
Active Directory Identity Service	ТСР	80	Used by Citrix.ADIdentity.SdkWcfEndpoint.exe
Configuration Service	ТСР	80	Used by Citrix.Configuration.SdkWcfEndpoint.exe
Host Service	TCP	80	Used by Citrix.Host.SdkWcfEndpoint.exe
Machine Creation Service	ТСР	80	Used by Citrix.MachineCreation.SdkWcfEndpoint.exe
Machine Identity Service	ТСР	80	Used by Citrix.MachineIdentity.SdkWcfEndpoint.exe
License Configuration Service	ТСР	80	Used by Citrix.LicensingConfig.SdkWcfEndpoint.exe
Desktop Director	TCP	80/443	
Virtual Desktop Agent 5	ТСР	80	Communication between Desktop Delivery Controller and Virtual Desktop Agent
	ТСР	135 3389	Communication between Desktop Director and Virtual Desktop Agent for Remote Assistance
	UDP	16500 16509	Used port range for HDX Audio
	ТСР	80	Communication between Desktop Director and Virtual Desktop Agent for WinRM 1.1
	ТСР	5985	Communication between Desktop Director and Virtual Desktop Agent for WinRM 2.0
Virtual Desktop Agent (previous versions)	ТСР	8080	Communication between Desktop Delivery Controller and Virtual Desktop Agent

Component	Туре	Port	Details
Citrix Desktop Service	ТСР	80	Used by process WorkstationAgent.exe for communicating with Broker
Database	ТСР	1433	Microsoft SQL Server
	ТСР	1434	Microsoft SQL Server. Note : Named instance connection requires UDP 1434
XenServer	_		
XenCenter	ТСР	22	SSH
	ТСР	443	Management using XenAPI
	ТСР	5900	VNC for Linux Guests
	ТСР	3389	RDP for Windows Guests
Resource Pool	ТСР	22	SSH
	ТСР	443	Management using XenAPI
Infrastructure	TCP/UDP	123	NTP
	TCP/UDP	53	DNS
	ТСР	389	Active Directory
	TCP/UDP	139	ISO Store: NetBIOS Session Service
	TCP/UDP	445	ISO Store: Microsoft-DS
Storage	ТСР	3260	iSCSI Storage
	ТСР	2049	NFS Storage
	ТСР	21605	SOAP over HTTP StorageLink Gateway traffic
Lab Manager			
End-Device to Lab Manager Server User Interface	ТСР	8443	End device communication with Lab Manager Server User interface
End-Device to Virtual	ТСР	3389	RDP for Windows Guests
Machines	ТСР	5900	VNC for Linux Guests
End-Device to Virtualization Host	ТСР	5900 — 5999	Connections for XenServer
	ТСР	2179	Connections for Microsoft Hyper-V
VMAgent to Lab Manager Server	TCP/UDP	35110 - 35112	Server Discovery ports for VMAgent
	ТСР	8443	Secure (HTTPS) Server Discovery ports for VMAgent
Lab Manager Server to Active	ТСР	389	LDAP
Directory	ТСР	636	LDAP over SSL (LDAPS)
StageManager			
End-Device to StageManager Server User Interface	ТСР	9443	End device communication with StageManager Server User interface
End-Device to Virtual	ТСР	3389	RDP for Windows Guests
Machines	ТСР	5900	VNC for Linux Guests
End-Device to Virtualization	ТСР	5900 - 5999	Connections for XenServer

Component	Туре	Port	Details
Host	TCP	2179	Connections for Microsoft Hyper-V
VMAgent to StageManager Server	TCP/UDP	35110 - 35112	Server Discovery ports for VMAgent/GuestAgent
	ТСР	9443	Secure (HTTPS) Server Discovery ports for VMAgent/GuestAgent
StageManager Server to Active	TCP	389	LDAP
Directory	TCP	636	LDAP over SSL (LDAPS)
StorageLink			
StorageLink Service	ТСР	21605	Communication of StorageLink Manager to StorageLink Service
Database	TCP	1433	Microsoft SQL Server
NetScaler / Access Gateway Ent	erprise Editior	1	
Administration			
SSH	TCP	22	CLI Administration (encrypted)
HTTP/S	TCP	80/443	GUI Administration
Java	TCP	3008	GUI Administration (encrypted)
	TCP	3010	GUI (no encryption)
Authentication			
LDAP	TCP/UDP	389	LDAP connection
	TCP/UDP	636	LDAP SSL connection
	ТСР	3268	LDAP connection to Global Catalog
RADIUS	TCP/UDP	1812	RADIUS connection
DNS	TCP/UDP	53	DNS name resolution
High Availability	UDP	3003	Exchange of Hello packets for communicating UP/DOWN status (heartbeat)
	ТСР	3008	Secure High Availability configuration synchronization
	ТСР	3009	Secure command propagation and MEP
	ТСР	3010	High Availability configuration synchronization plus web-logging and audit server logging
	ТСР	3011	Command propagation and MEP
Command Center	ТСР	9091/9092/ 9094	For opening TCP communication between client and the server
	ТСР	9091/9092	Ports are used to refresh, update, and query objects pertaining to Discovery (Maps/Devices, etc.)/Fault Management/Administration/ Configuration Management modules
	ТСР	9094	Used specifically by Configuration Management module while executing/scheduling tasks
	ТСР	1099/6010	Used when you execute the <i>Invoke NSCLI</i> option. Under Device, right click under Map Between Command Center Server and NetScaler. The ping is the SNMP ping.

Component	Туре	Port	Details
	ТСР	22	Connect SSH/SFTP to the NetScaler device from Command Center Server
	UDP	161/162	SNMP Polling to NetScalers and TRAPs from NetScaler to Command Center
Note: If you use an HTML client Citrix recommends using an HTM			pen between client and Command Center server.
Cloud Bridge	TCP	50	IPSec Encapsulating Security Protocol (ESP) traffic
	ТСР	51	IPSec Authentication Header (AH) traffic
	UDP	500	Internet Key Exchange (IKE/ISAKMP) negotiation
Access Gateway 5.0			
Client Connections	ТСР	443	TCP Port used for connecting to an Access Gateway Deployment
Citrix Access Controller	ТСР	80/443/9002	Communication between Access Gateway and Access Control Server
Administration			
Appliance	TCP	443	Administration Website
Controller	ТСР	2513	IMA-based communication
Authentication			
LDAP	ТСР	389	LDAP connection
RADIUS	TCP/UDP	1812	RADIUS connection
DNS	TCP/UDP	53	DNS name resolution
Appliance Failover	ТСР	694	Communication between Access Gateway appliances
Previous versions of Access Ga	teway Standard	/ Advanced Edi	tion
Client Connections	ТСР	443	TCP Port used for connecting to an Access Gateway Deployment
Advanced Access Control (AAC)	ТСР	80/443	Communication between Access Gateway Standard and Advanced Access Control Server
Administration			
Appliance	ТСР	9001	Administration Website
	ТСР	9002	Administrative Desktop (until 4.5)
	TCP	9005	AAC
AAC	TCP	2513	IMA-based communication
Authentication			
LDAP	TCP	389	LDAP connection
RADIUS	TCP/UDP	1812	RADIUS connection
DNS	TCP/UDP	53	DNS name resolution

Branch Repeater			
Administration	TCP	80/443	Citrix Repeater Console

Component	Туре	Port	Details
	ТСР	3389	RDP connection to server console (Windows)
Appliance to Appliance	TCP	N/A	Pass through of native application ports
Client to Appliance	ТСР	443	Client to Appliance communication
EdgeSight			
Agent	ТСР	80/443	Communication with EdgeSight Server for payloads and alerts
	ТСР	9036	EdgeSight Agent internal communication (client- side database)
Web Console	ТСР	9035	Communication with RSCorSvc on EdgeSight Agent
Database	ТСР	1433	Microsoft SQL Server
EasyCall			
EasyCall Client	ТСР	8443	PSync
EasyCall Gateway	TCP	5060	EasyCall Gateway communicates with the SIP trunk over port 5060
Admin Console	ТСР	443	Administration of EasyCall
LDAP	ТСР	389	Active Directory/LDAP
PBX	ТСР	N/A	The PBX port depends on the vendor and varies.
Password Manager			
Password Manager Service	ТСР	443	Communication with Management Console and Password Manager Agent (non-IMA)
Credential Store on			
Network File Share	TCP/UDP	445	CIFS
	TCP/UDP	135 - 139	NetBIOS
Active Directory	TCP/UDP	389	LDAP connection
	TCP/UDP	636	LDAP SSL connection
	TCP	3268	LDAP connection to Global Catalog
	TCP	3269	LDAP SSL connection to Global Catalog
Novell File Share	TCP/UDP	524	ZENworks communication
Provisioning services			
PXE	-	Broadcast	Target devices PXE booting from network
DHCP	UDP	67	Client broadcast/communication with DHCP server(s)
	UDP	68	DHCP server(s) communication with client See note below for required DHCP options
TFTP	UDP	69	Trivial File Transfer (TFTP)
Console	ТСР	54321 54322	SOAP Service
Active Directory	ТСР	389	Communication with Active Directory services
Database	TCP	1433	Microsoft SQL Server

Component	Туре	Port	Details
Target Devices	UDP	6901	Default port for Target Devices.
Streaming Services	UDP	6910 - 6930	Provisioning services Streaming Service
Server Communication	UDP	6890 - 6904	Inter-server communication, version 6.0 and later
	UDP	6905 - 6909	Inter-server communication, prior to version 6.0
Boot Login	UDP	6910	Target Device logon at Provisioning services
Write Cache	UDP	10802 10803	Target Device communication with its Write Cache
Note:		erver Name (Boo	tstrap Protocol Server) 9 Protocol Client)
SmartAuditor			
Components (Agent / Player)	TCP/UDP	80/443	SmartAuditor components connecting to SmartAuditor Broker
Database	ТСР	1433	Microsoft SQL Server
Microsoft Message Queuing (MSMQ)			Provides reliable transport of data from SmartAuditor Agent to SmartAuditor Server using an MSMQ private message queue named CitrixSmAudData
MSMQ Service (default)	TCP/UDP	1801	MSMQ
	ТСР	2101	MSMQ-DCs
	ТСР	2103	MSMQ-RPC
	ТСР	2105	MSMQ-RPC
	ТСР	2107	MSMQ-Mgmt
	UDP	3527	MSMQ-Ping
	ТСР	135	RPC
MSMQ Service HTTP/S	ТСР	80/443	Secured connections
Workflow Studio			
Console	TCP	8010	Connection to remote runtime
Database	ТСР	1433	Microsoft SQL Server
Citrix Online Products			
GoToMeeting GoToWebinar GoToMyPC GoToAssist	ТСР	80/443/8200	Contacting GoToMeeting service broker using the Endpoint Gateway (EGW)

Port	Product	Component	Туре	Details
22	CloudStack	KVM	ТСР	CloudStack Management Server to KVM
		XenServer	ТСР	CloudStack Management Server to XenServer
22	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	Connect SSH/SFTP to the NetScaler device from Command Center Server
		SSH administration	ТСР	CLI Administration (encrypted)
22	XenServer	Resource Pool	ТСР	SSH
		XenCenter	ТСР	SSH
43	SmartAuditor	MSMQ Service HTTP/S	ТСР	Secured connections
50	NetScaler / Access Gateway Enterprise Edition	Cloud Bridge	ТСР	IPSec Encapsulating Security Protocol (ESP) traffic
51	NetScaler / Access Gateway Enterprise Edition	Cloud Bridge	ТСР	IPSec Authentication Header (AH) traffic
53	Access Gateway 5.0	DNS	TCP/UDP	DNS name resolution
53	CloudStack	Console Proxy VM	ТСР	Console Proxy VM to DNS
		DNS	ТСР	CloudStack Management Server to DNS
		SSVM	ТСР	SSVM to DNS
		Virtual Router	ТСР	Virtual Router to DNS
53	NetScaler / Access Gateway Enterprise Edition	DNS	TCP/UDP	DNS name resolution
53	Previous versions of Access Gateway Standard / Advanced Edition	DNS	TCP/UDP	DNS name resolution
53	XenServer	Infrastructure	TCP/UDP	DNS
67	Provisioning services	DHCP	UDP	DHCP Option for TFTP Server Name (Bootstrap Protocol Server)
68	Provisioning services	DHCP	UDP	DHCP Option for Bootfile Name (Bootstrap Protocol Client)
69	Provisioning services	TFTP	UDP	Trivial File Transfer
80	Access Gateway 5.0	Citrix Access Controller	ТСР	Communication between Access Gateway and Access Control Server
80	Branch Repeater	Administration	ТСР	Citrix Repeater Console
80	Citrix Online Products	GoToMeeting GoToWebinar GoToMyPC GoToAssist	ТСР	Contacting GoToMeeting service broker using the Endpoint Gateway (EGW)
80	CloudStack	SSVM	ТСР	SSVM to HTTP(s) File Share to download VM Image
		XenServer	ТСР	CloudStack Management Server to XenServer

Port	Product	Component	Туре	Details
80	Common Citrix Communication Ports	Application / Desktop Request	ТСР	XML Service
		Citrix Receiver	ТСР	Communication with Merchandising Server
		STA	ТСР	Secure Ticketing Authority (embedded into XML Service)
80	EdgeSight	Agent	ТСР	Communication with EdgeSight Server for payloads and alerts
80	NetScaler / Access Gateway Enterprise Edition	HTTP/S administration	ТСР	GUI Administration
80	Previous versions of Access Gateway Standard / Advanced Edition	Advanced Access Control (AAC)	ТСР	Communication between Access Gateway Standard and Advanced Access Control Server
80	SmartAuditor	Components (Agent / Player)	TCP/UDP	SmartAuditor components connecting to SmartAuditor Broker
		Components (Agent / Player)	TCP/UDP	SmartAuditor components connecting to SmartAuditor Broker
		MSMQ Service HTTP/S	TCP	Secured connections
80	XenApp	Offline Plug-in	HTTP/S	Communication with Application Hub (Web Server / File Server / Share)
80	XenDesktop	Active Directory Identity Service	ТСР	Used by Citrix.ADIdentity.SdkWcfEndpoint.e xe
		Broker	ТСР	Used by process BrokerService.exe for WCF communications to VDA, SDK, XML Service
		Citrix Desktop Service	ТСР	Used by process WorkstationAgent.exe for communicating with Broker
		Citrix XenServer Virtualization Infrastructure	ТСР	Communication with XenServer infrastructure
		Configuration Service	ТСР	Used by Citrix.Configuration.SdkWcfEndpoin t.exe
		Desktop Director	TCP	
		Host Service	ТСР	Used by Citrix.Host.SdkWcfEndpoint.exe
		License Configuration Service	ТСР	Used by Citrix.LicensingConfig.SdkWcfEndp oint.exe

Port	Product	Component	Туре	Details
		Machine Creation Service	ТСР	Used by Citrix.MachineCreation.SdkWcfEndp oint.exe
		Machine Identity Service	ТСР	Used by Citrix.MachineIdentity.SdkWcfEndp oint.exe
		Virtual Desktop Agent 5	ТСР	Communication between Desktop Delivery Controller and Virtual Desktop Agent
		Virtual Desktop Agent 5	ТСР	Communication between Desktop Director and Virtual Desktop Agent for WinRM 1.1
111	CloudStack	NFS	ТСР	CloudStack Management Server to NFS (initial deployment of SSVM and CPVM
		SSVM	TCP	SSVM to NFS
123	XenServer	Infrastructure	TCP/UDP	NTP
135	SmartAuditor	MSMQ Service (default)	ТСР	RPC
135	XenDesktop	Virtual Desktop Agent 5	ТСР	Communication between Desktop Director and Virtual Desktop Agent for Remote Assistance
135 - 139	Password Manager	Credential Store on Network File Share	TCP/UDP	NetBIOS
139	XenServer	Infrastructure	TCP/UDP	ISO Store: NetBIOS Session Service
161	NetScaler / Access Gateway Enterprise Edition	Command Center	UDP	SNMP Polling to NetScalers and TRAPs from NetScaler to Command Center
162	NetScaler / Access Gateway Enterprise Edition	Command Center	UDP	SNMP Polling to NetScalers and TRAPs from NetScaler to Command Center
389	Access Gateway 5.0	LDAP authentication	ТСР	LDAP connection
389	EasyCall	LDAP	ТСР	Active Directory/LDAP
389	Lab Manager	Lab Manager Server to Active Directory	ТСР	LDAP
389	NetScaler / Access Gateway Enterprise Edition	LDAP authentication	TCP/UDP	LDAP connection
389	Password Manager	Credential Store on Active Directory	TCP/UDP	LDAP connection
389	Previous versions of Access Gateway Standard / Advanced Edition	LDAP authentication	TCP	LDAP connection
389	Provisioning services	Active Directory	ТСР	Communication with Active Directory services
389	StageManager	StageManager Server to Active Directory	ТСР	LDAP

Port	Product	Component	Туре	Details
389	XenServer	Infrastructure	TCP	Active Directory
443	Access Gateway 5.0	Appliance administration	ТСР	Administration Website
		Citrix Access Controller	ТСР	Communication between Access Gateway and Access Control Server
		Client Connections	ТСР	TCP Port used for connecting to an Access Gateway Deployment
443	Branch Repeater	Administration	ТСР	Citrix Repeater Console
		Client to Appliance	TCP	Client to Appliance communication
443	Citrix Online Products	Go'ToMeeting Go'ToWebinar Go'ToMyPC Go'ToAssist	ТСР	Contacting GoToMeeting service broker using the Endpoint Gateway (EGW)
443	CloudStack	SSVM	TCP	SSVM to HTTP(s) File Share to download VM Image
		vCenter	ТСР	CloudStack Management Server to vCenter
		XenServer	ТСР	CloudStack Management Server to XenServer
443	Common Citrix Communication Ports	Application / Desktop Request	ТСР	XML Service
		Citrix Receiver	ТСР	Communication with Merchandising Server
		STA	ТСР	Secure Ticketing Authority (embedded into XML Service)
443	EasyCall	Admin Console	ТСР	Administration of EasyCall
443	EdgeSight	Agent	ТСР	Communication with EdgeSight Server for payloads and alerts
443	NetScaler / Access Gateway Enterprise Edition	HTTP/S administration	ТСР	GUI Administration
443	Password Manager	Password Manager Service	ТСР	Communication with Management Console and Password Manager Agent (non-IMA)
443	Previous versions of Access Gateway Standard / Advanced Edition	Advanced Access Control (AAC)	ТСР	Communication between Access Gateway Standard and Advanced Access Control Server
		Client Connections	ТСР	TCP Port used for connecting to an Access Gateway Deployment
443	XenApp	Offline Plug-in	HTTP/S	Communication with Application Hub (Web Server / File Server / Share)
443	XenDesktop	Broker	ТСР	Used by process BrokerService.exe for WCF communications to VDA, SDK, XML Service

Port	Product	Component	Туре	Details	
		Citrix XenServer Virtualization Infrastructure	ТСР	Communication with XenServer infrastructure	
		Desktop Director	TCP		
		VMware vSphere Virtualization Infrastructure	ТСР	VMware Web Services communication	
443	XenServer	Resource Pool	ТСР	Management using XenAPI	
		XenCenter	TCP	Management using XenAPI	
445	Password Manager	Credential Store on Network File Share	TCP/UDP	CIFS	
445	XenApp	Offline Plug-in	SMB	Communication with Application Hub (File Server / Share)	
445	XenServer	Infrastructure	TCP/UDP	ISO Store: Microsoft-DS	
500	NetScaler / Access Gateway Enterprise Edition	Cloud Bridge	UDP	Internet Key Exchange (IKE/ISAKMP) negotiation	
524	Password Manager	Credential Store on Novell File Share	TCP/UDP	ZENworks communication	
636	Lab Manager	Lab Manager Server to Active Directory	ТСР	LDAP over SSL (LDAPS)	
636	NetScaler / Access Gateway Enterprise Edition	LDAP authentication	TCP/UDP	LDAP SSL connection	
636	Password Manager	Credential Store on Active Directory	TCP/UDP	LDAP SSL connection	
636	StageManager	StageManager Server to Active Directory	ТСР	LDAP over SSL (LDAPS)	
694	Access Gateway 5.0	Appliance Failover	ТСР	Communication between Access Gateway appliances	
1099	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	Used when you execute the <i>Invoke</i> <i>NSCLI</i> option. Under Device, right click under Map Between Command Center Server and NetScaler. The ping is the SNMP ping.	
1433	EdgeSight	Database	TCP	Microsoft SQL Server	
1433	Provisioning services	Database	ТСР	Microsoft SQL Server	
1433	SmartAuditor	Database	ТСР	Microsoft SQL Server	
1433	StorageLink	Database	ТСР	Microsoft SQL Server	
1433	Workflow Studio	Database	ТСР	Microsoft SQL Server	
1433	XenApp	Database	ТСР	Microsoft SQL Server	
1433	XenDesktop	Database	ТСР	Microsoft SQL Server	
1434	XenApp	Database	ТСР	Microsoft SQL Server. Note: Named instance connection requires UDP 1434	

Port	Product	Component	Туре	Details	
1434	XenDesktop	Database	ТСР	Microsoft SQL Server. Note: Name instance connection requires UDP 1434	
1494	Common Citrix Communication Ports	ICA / HDX	ТСР	Access to applications and virtual desktops	
1801	SmartAuditor	MSMQ Service (default)	TCP/UDP	MSMQ	
1812	Access Gateway 5.0	RADIUS authentication	TCP/UDP	RADIUS connection	
1812	NetScaler / Access Gateway Enterprise Edition	RADIUS authentication	TCP/UDP	RADIUS connection	
1812	Previous versions of Access Gateway Standard / Advanced Edition	RADIUS authentication	TCP/UDP	RADIUS connection	
2049	CloudStack	NFS	ТСР	CloudStack Management Server to NFS (initial deployment of SSVM and CPVM	
2049	CloudStack	SSVM	TCP	SSVM to NFS	
2049	XenServer	Storage	TCP	NFS Storage	
2101	SmartAuditor	MSMQ Service (default)	TCP	MSMQ-DCs	
2103	SmartAuditor	MSMQ Service (default)	TCP	MSMQ-RPC	
2105	SmartAuditor	MSMQ Service (default)	TCP	MSMQ-RPC	
2107	SmartAuditor	MSMQ Service (default)	TCP	MSMQ-Mgmt	
2179	Lab Manager	End-Device to Virtualization Host	ТСР	Connections for Microsoft Hyper-V	
2179	StageManager	End-Device to Virtualization Host	ТСР	Connections for Microsoft Hyper-V	
2512	Common Citrix Communication Ports	IMA	ТСР	Independent Management Architecture (IMA)	
2513	Access Gateway 5.0	Controller administration	TCP	IMA-based communication	
2513	Common Citrix Communication Ports	Management Console	ТСР	Citrix Management Consoles	
2513	Previous versions of Access Gateway Standard / Advanced Edition	AAC administration	ТСР	IMA-based communication	
2598	Common Citrix Communication Ports	Session Reliability	ТСР	Access to applications and virtual desktops	
3003	NetScaler / Access Gateway Enterprise Edition	High Availability	UDP	Exchange of Hello packets for communicating UP/DOWN status (heartbeat)	
3008	NetScaler / Access Gateway Enterprise Edition	High Availability	ТСР	Secure High Availability configuration synchronization	
3008		Java administration	ТСР	GUI Administration (encrypted)	
3009	NetScaler / Access Gateway Enterprise Edition	High Availability	ТСР	Secure command propagation and MEP	

Port	Product	Component	Type	Details	
3010	NetScaler / Access Gateway Enterprise Edition	High Availability	ТСР	High Availability configuration synchronization plus web-logging and audit server logging	
		Java administration	TCP	GUI (no encryption)	
3011	NetScaler / Access Gateway Enterprise Edition	High Availability	TCP	Command propagation and MEP	
3260	XenServer	Storage	TCP	iSCSI Storage	
3268	NetScaler / Access Gateway Enterprise Edition	LDAP authentication	TCP	LDAP connection to Global Catalog	
3268	Password Manager	Credential Store on Active Directory	ТСР	LDAP connection to Global Catalog	
3269	Password Manager	Credential Store on Active Directory	ТСР	LDAP SSL connection to Global Catalog	
3306	CloudStack	MySQL	ТСР	CloudStack Management Server to MySQL	
3389	Branch Repeater	Administration	ТСР	RDP connection to server console (Windows)	
3389	Lab Manager	End-Device to Virtual Machines	ТСР	RDP for Windows Guests	
3389	StageManager	End-Device to Virtual Machines	ТСР	RDP for Windows Guests	
3389	XenDesktop	Virtual Desktop Agent 5	ТСР	Communication between Desktop Director and Virtual Desktop Agent for Remote Assistance	
3389	XenServer	XenCenter	ТСР	RDP for Windows Guests	
3527	SmartAuditor	MSMQ Service (default)	UDP	MSMQ-Ping	
3922	CloudStack	Console Proxy VM	ТСР	CloudStack Management Server to Console Proxy VM	
		SSVM	ТСР	CloudStack Management Server to SSVM	
		Virtual Router	ТСР	CloudStack Management Server to Virtual Router	
5060	EasyCall	EasyCall Gateway	ТСР	EasyCall Gateway communicates with the SIP trunk over port 5060	
5900	Lab Manager	End-Device to Virtual Machines	ТСР	VNC for Linux Guests	
5900	StageManager	End-Device to Virtual Machines	TCP	VNC for Linux Guests	
5900	XenServer	XenCenter	TCP	VNC for Linux Guests	
5900 - 5999	Lab Manager	End-Device to Virtualization Host	TCP	Connections for XenServer	
5900 - 5999	StageManager	End-Device to Virtualization Host	ТСР	Connections for XenServer	

Port	Product	Component	Туре	Details	
5985	XenDesktop	Virtual Desktop Agent 5	ТСР	Communication between Desktop Director and Virtual Desktop Agent for WinRM 2.0	
6010	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	Used when you execute the <i>Invoke</i> <i>NSCLI</i> option. Under Device, right click under Map Between Command Center Server and NetScaler. The ping is the SNMP ping.	
6890 - 6904	Provisioning Services	Server Communication	UDP	Inter-server communication (version 6.0 and later)	
6901	Provisioning services	Target Devices	UDP	Default port for Target Devices.	
6905 - 6909	Provisioning services	Server Communication	UDP	Inter-server communication (prior to version 6.0)	
6910	Provisioning services	Boot Login	UDP	Target Device logon at Provisioning services	
6910 - 6930	Provisioning services	Streaming Services	UDP	Provisioning services Streaming Service	
7279	Citrix License Server	Citrix Vendor Daemon	ТСР	Check-in/check-out of Citrix licenses (Citrix.exe)	
8010	Workflow Studio	Console	TCP	Connection to remote runtime	
8080	CloudStack	User/Client/API	ТСР	User/Client/API to CloudStack Management Server - Management Port (authenticated communication)	
8080	Common Citrix Communication Ports	Application / Desktop Request	ТСР	XML Service	
		STA	ТСР	Secure Ticketing Authority (embedded into XML Service)	
8080	XenDesktop	Virtual Desktop Agent (previous versions)	ТСР	Communication between Desktop Delivery Controller and Virtual Desktop Agent	
8082	Citrix License Server	License Management Console	ТСР	Web-based administration console (Lmadmin.exe)	
8096	CloudStack	User/Client	ТСР	User/Client to CloudStack Management Server - Management Port (unauthenticated communication)	
8100	XenDesktop	Microsoft Hyper-V Virtualization Infrastructure	ТСР	SCVMM Administrator Console	
8200	Citrix Online Products	GoToMeeting GoToWebinar GoToMyPC GoToAssist	ТСР	Contacting GoToMeeting service broker using the Endpoint Gateway (EGW)	
8250	CloudStack	CloudStack Management Server	ТСР	To/from CloudStack Management Server	

Port	Product	Component	Туре	Details
		Console Proxy VM	ТСР	Console Proxy VM to CloudStack Management Server
		SSVM	ТСР	SSVM to CloudStack Management Server
		Virtual Router	ТСР	Virtual Router to CloudStack Management Server
8443	EasyCall	EasyCall Client	TCP	PSync
8443	Lab Manager	End-Device to Lab Manager Server User Interface	ТСР	End device communication with Lab Manager Server User interface
		VMAgent to Lab Manager Server	ТСР	Secure (HTTPS) Server Discovery ports for VMAgent
9001	Previous versions of Access Gateway Standard / Advanced Edition	Appliance administration	ТСР	Administration Website
9002	Access Gateway 5.0	Citrix Access Controller	ТСР	Communication between Access Gateway and Access Control Server
9002	Previous versions of Access Gateway Standard / Advanced Edition	Appliance administration	ТСР	Administrative Desktop (until 4.5)
9005	Previous versions of Access Gateway Standard / Advanced Edition	Appliance administration	ТСР	AAC
9035	EdgeSight	Web Console	ТСР	Communication with RSCorSvc on EdgeSight Agent
9036	EdgeSight	Agent	ТСР	EdgeSight Agent internal communication (client-side database)
9090	CloudStack	CloudStack Management Server	ТСР	CloudStack Management Server
9091	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	For opening TCP communication between client and the server
		Command Center	ТСР	Ports are used to refresh, update, and query objects pertaining to Discovery (Maps/Devices, etc.)/Fault Management/Administration/ Configuration Management modules
9092	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	For opening TCP communication between client and the server
		Command Center	ТСР	Ports are used to refresh, update, and query objects pertaining to Discovery (Maps/Devices, etc.)/Fault Management/Administration/ Configuration Management modules
9094	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	For opening TCP communication between client and the server

Port	Product	Component	Туре	Details	
9094	NetScaler / Access Gateway Enterprise Edition	Command Center	ТСР	Used specifically by Configuration Management module while executing/scheduling tasks	
9443	StageManager	End-Device to StageManager Server User Interface	ТСР	End device communication with StageManager Server User interface	
		VMAgent to StageManager Server	ТСР	Secure (HTTPS) Server Discovery ports for VMAgent/GuestAgent	
10802	Provisioning services	Write Cache	UDP	Target Device communication with its Write Cache	
10803	Provisioning services	Write Cache	UDP	Target Device communication with its Write Cache	
11168	XenApp	Power & Capacity Management Agent	ТСР	Communication with Concentrator	
16500	XenDesktop	Virtual Desktop Agent 5	UDP	Used port range for HDX Audio	
16509	XenDesktop	Virtual Desktop Agent 5	UDP	Used port range for HDX Audio	
21605	StorageLink	StorageLink Service	ТСР	Communication of StorageLink Manager to StorageLink Service	
21605	XenServer	Storage	ТСР	SOAP over HTTP StorageLink Gateway traffic	
27000	Citrix License Server	License Manager Daemon	ТСР	Handles initial point of contact for license requests (Lmadmin.exe)	
35110 - 35112	Lab Manager	VMAgent to Lab Manager Server	TCP/UDP	Server Discovery ports for VMAgent	
35110 - 35112	StageManager	VMAgent to StageManager Server	TCP/UDP	Server Discovery ports for VMAgent/GuestAgent	
54321	Provisioning services	Console	ТСР	SOAP Service	
54322	Provisioning services	Console	ТСР	SOAP Service	

Revision	Change Description	Updated By	Date
1.0	Initial document	Michael Palesch Thomas Berger Tarkan Koçoğlu	August 28, 2009
1.1	Update	John Scoles	June, 2010
1.2	Update	John Scoles	November, 2010
1.3	Update	Tarkan Koçoğlu	November, 2010
1.4	Added 1434 to XenApp and XenDesktop	John Scoles	November, 2010
1.5	Updates to URLs, XenDesktop, and NetScaler sections	Tarkan Koçoğlu	July, 2011
1.6	Changed VDA 5 HDX port type to UDP	John Scoles	September, 2011
1.7	Changed Pwr Cap Mgmt port, added Command Center	Steve Weizman	October, 2011
1.8	Added CloudStack	John Scoles	November, 2011
1.9	Corrected DHCP descriptions for Provisioning Services	Fred Donovan	January, 2012
2.0	Added ports for Provisioning Services version 6.x Added ports listing by port	Fred Donovan, John Scoles	February, 2012