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sokolic

Citrix CLOUD

Who, what, when, how?

about me

Citrix
Technology
Advocates



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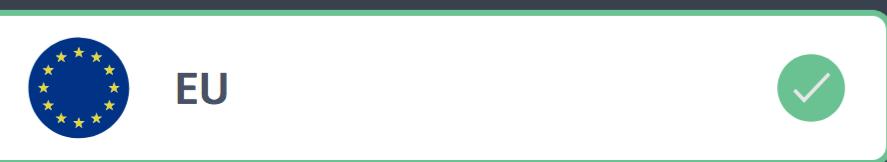
CTO @ RIS Consulting GmbH

Cologne, Germany
www.sinisasokolic.com

Citrix Cloud™

Select a home region that best suits your performance and business needs.

[Why is this important? Help me decide](#)

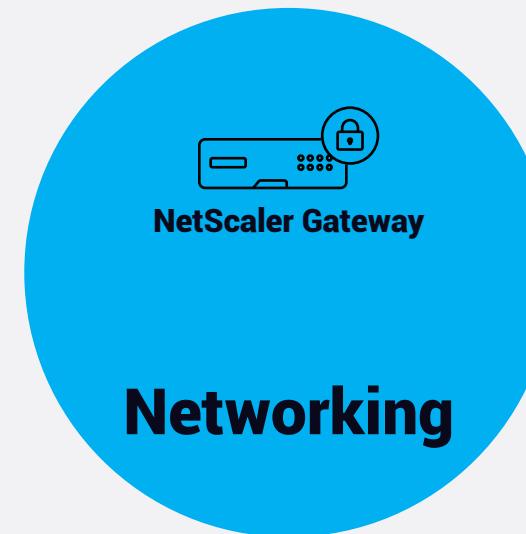
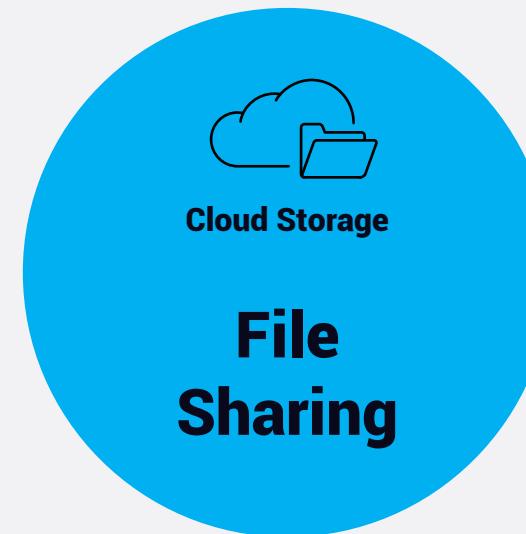
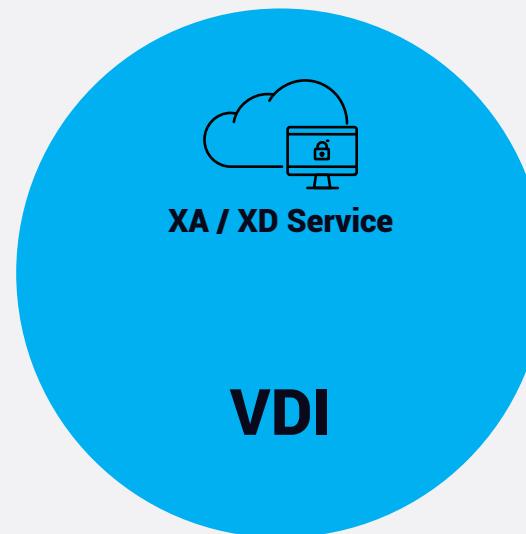


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[Continue](#)

Citrix Cloud overview

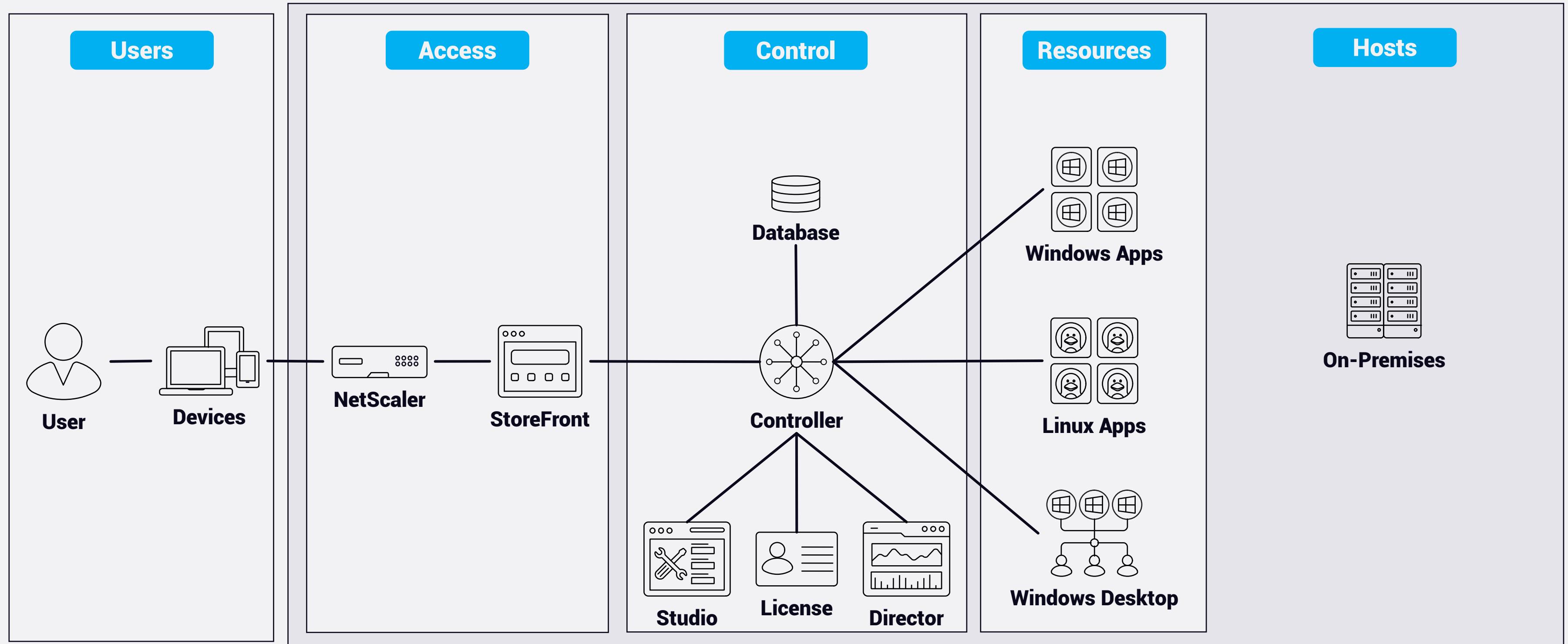


Hybrid Cloud / Private Cloud / Any Public Cloud / Any Hypervisor

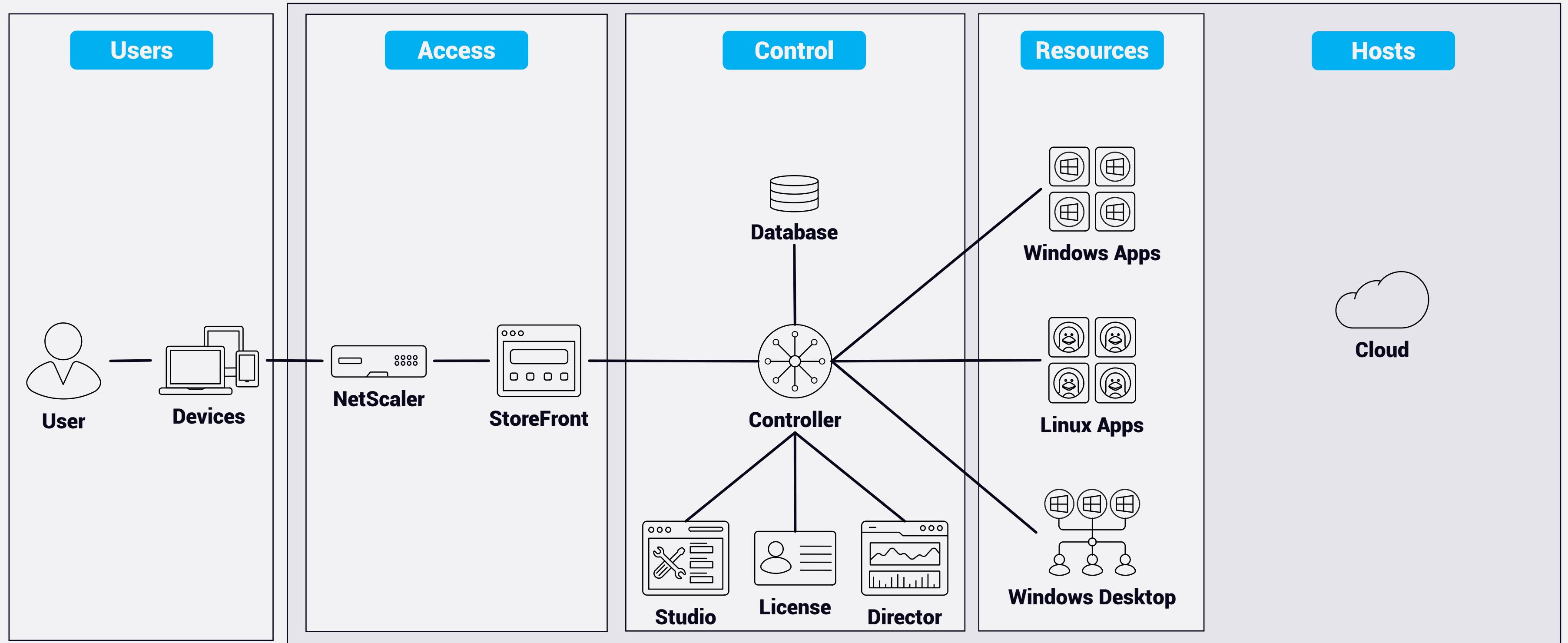
services regions

Service	US	EMEA
Citrix Cloud	Yes	Yes
XenApp and XenDesktop Service	Yes	Yes
XenDesktop Essentials	Yes	Yes
XenApp Essentials	Yes	Yes
Cloud StoreFront	Yes	Yes
XenMobile Service	Yes	Yes
Sharefile	Yes	Yes
App Layering	Yes	No
Smart Tools	Yes	No
Labs Services	Yes	No
NetScaler Services	Yes	No

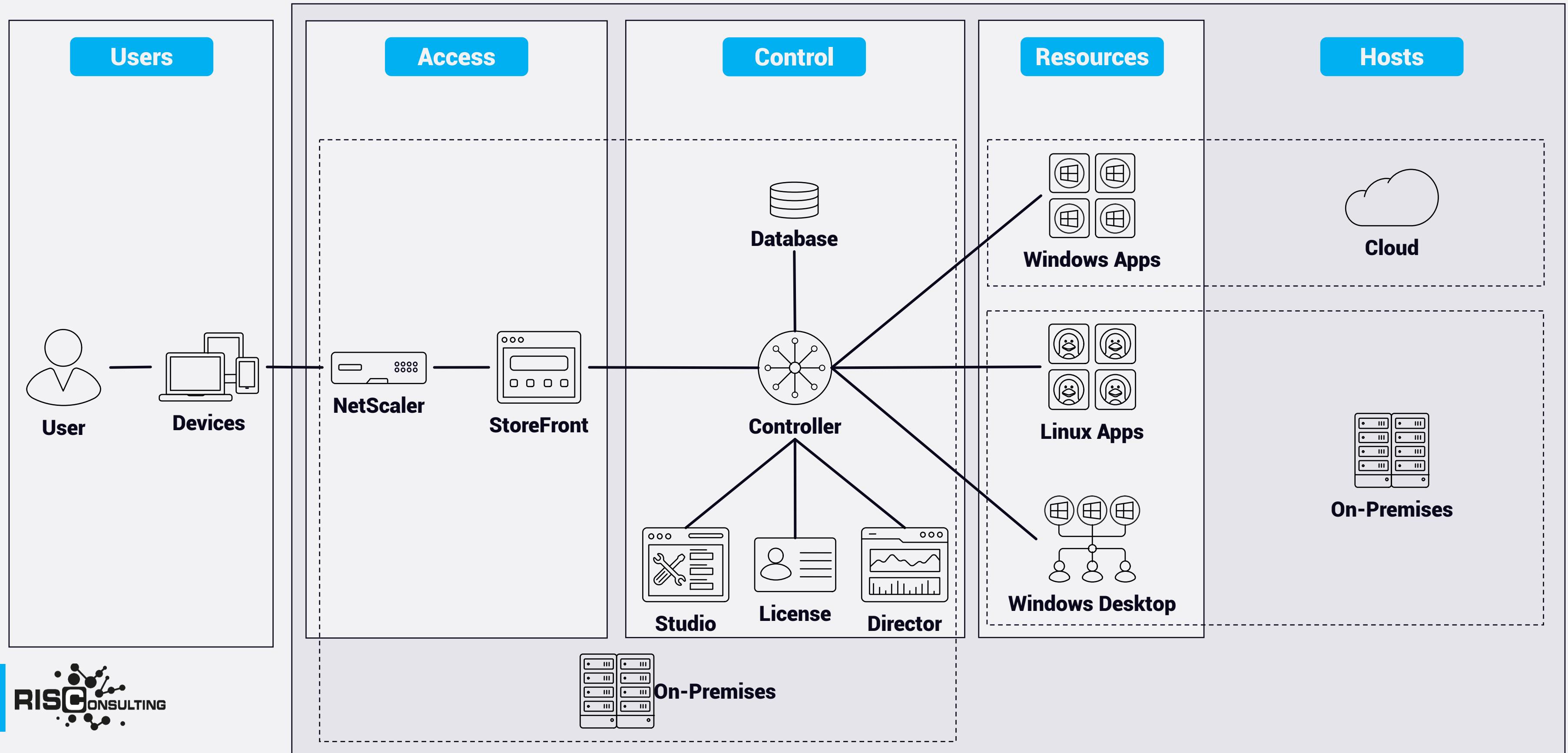
XenApp/XenDesktop on-premises



XenApp / XenDesktop cloud

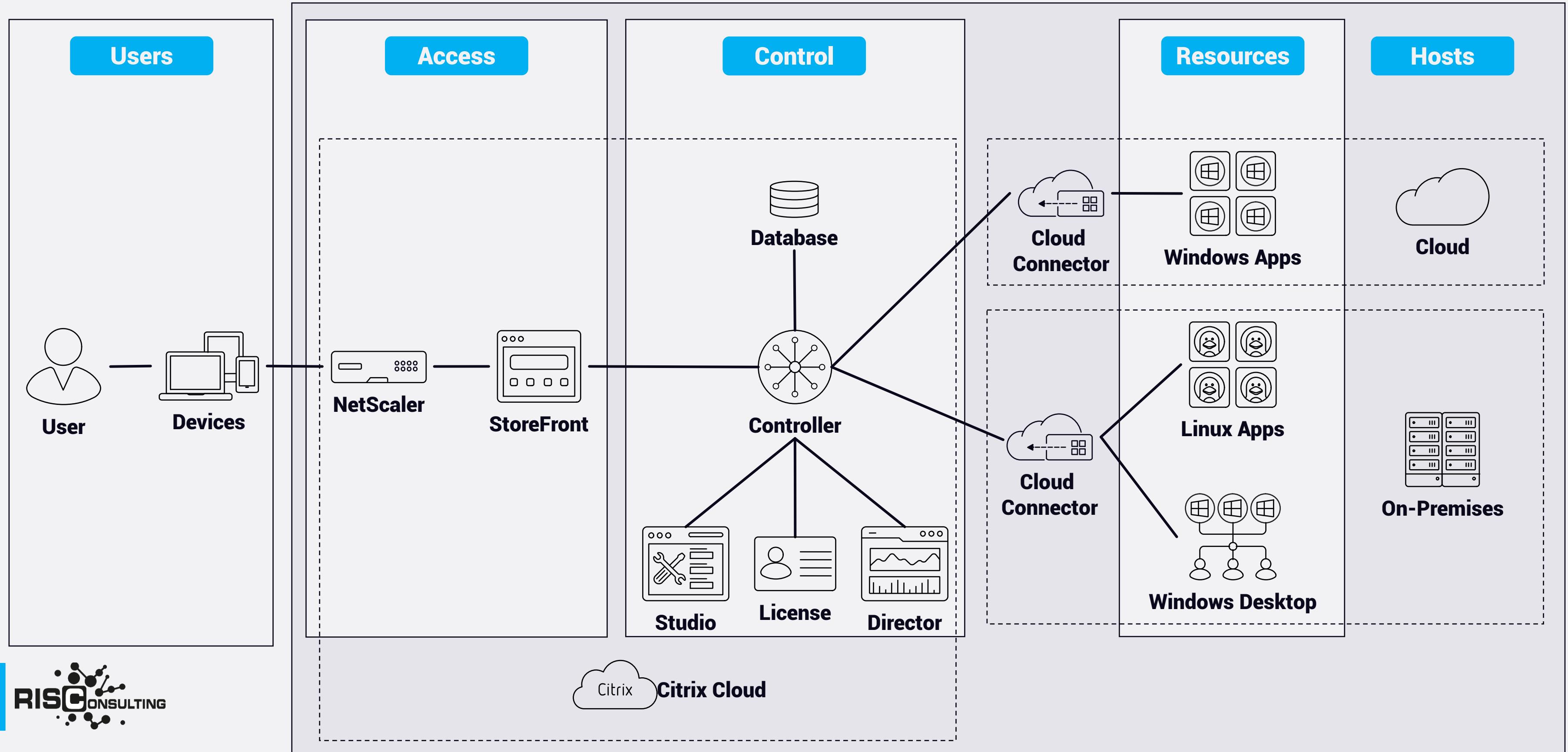


XenApp / XenDesktop hybrid cloud

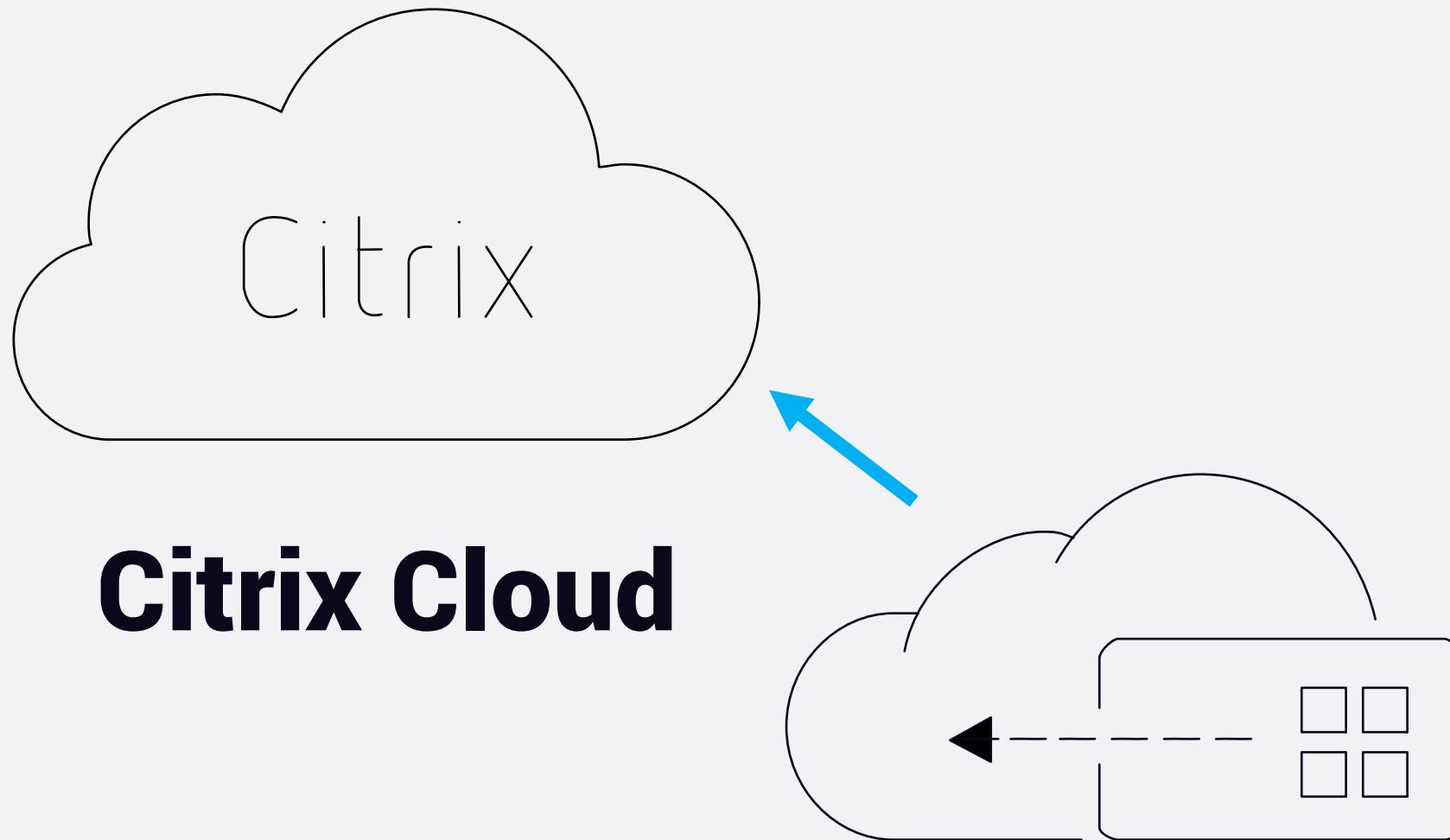


XenApp / XenDesktop

Citrix cloud



resource locations



Cloud Connector

- Required for XenApp and XenDesktop Service
- Required for XenMobile (or IPSec tunneling)
- Plan for redundancy ($n+1$) at least two
- Run as administrator
- Do not install in DMZ, install internally
- Port 443 Outbound (TCP)
- Disable IESC
- Domain-joined machine
- Time sync
- Don't install before cloning (unsupported)
- HTTPS with TLS 1.0, 1.1 and 1.2

<https://docs.citrix.com/en-us/citrix-cloud/overview/requirements/internet-connectivity-requirements.html>

XenApp and XenDesktop service

Cloud hosted

Delivery Controller

Citrix license management

Citrix Studio

Citrix Director

Citrix StoreFront (optional)

NetScaler Gateway (optional)

Microsoft SQL Server

Resource location

Cloud Connector

Domain Controller

VDAs

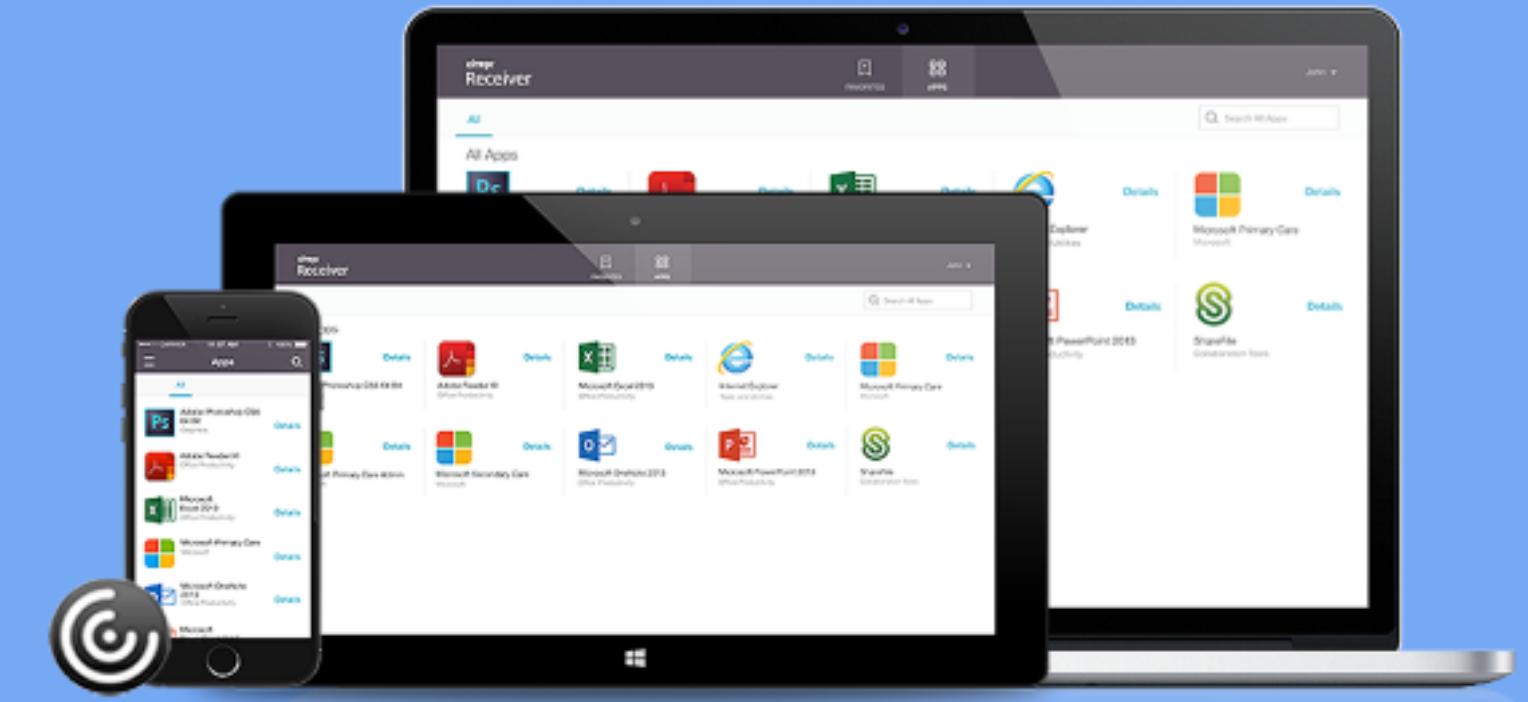
Hypervisors

NetScaler Gateway (optional)

StoreFront (optional)

Citrix XenApp Essentials Service

Securely deliver Windows apps from
Microsoft Azure to any device



- Only supports Azure Resource Manager
- Must have a Citrix Cloud Account
- XenApp Essentials Service creates Cloud Connector VMs automatically
- Use IE or Chrome



Hybrid Cloud / Private Cloud / Any Public Cloud / Any Hypervisor

feature access

plan name	Smart Build	Smart Migrate	Smart Check	Smart Scale
Citrix Workspace Service Subscription	+	+	+	+
XenApp and XenDesktop Service Subscription	+	+	+	+
XenDesktop Service Subscription	+	+	+	+
XenApp XenDesktop customer with CSS - select	+	+	+	**
XenMobile customer with CSS - select	+	+	+	-
NetScaler customer with CSS - select	+	+	+	-

*XenApp /XenDesktop Platinum Customers

Microsoft Azure support in Smart Tools

Feature	Azure Classic	Azure
Smart Scale	+	+
Smart Check	-	+
Add Resource Location	+	-
Smart Build	+	- (only existing VMs)

My Services (4)



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Citrix App Layering

App and Image Management on-premises and in the cloud.

[Manage](#)

[How to Buy | Learn more](#)



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NetScaler Management and Analytics Service

Management and Analytics for NetScaler on-premises and cloud.

[Manage](#)

[How to Buy | Learn more](#)



Smart Tools

Improve Citrix-stack efficiency on-premises and in the cloud.

[Manage](#)

[Learn more](#)



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XenApp and XenDesktop Service

Deliver virtual apps and desktops on any device.

[Manage](#)

[How to Buy | Learn more](#)

Available Services (3)



Secure Browser Service

Secure remote access to web and SaaS applications.

[Request Trial](#)

[How to Buy | Learn more](#)



ShareFile

Secure data access on any device.

[Add Service ▾](#)

[How to Buy | Learn more](#)



XenMobile Service

Enable subscribers to use corporate or BYO devices.

[Request Trial](#)

[How to Buy | Learn more](#)

Labs Services (4)

Try out interesting new technologies for new or experimental services and features. These services are unsupported, may change over time, and may not necessarily become Citrix Cloud services. We value your input, feedback, and conversations on our [Citrix Cloud - Labs Discussions](#) page.

Simplify day-to-day operations

Use-case specific “microservices”

For on-premises and public cloud

Delivered through Citrix Cloud

Citrix Cloud | Smart Tools

Resources & Settings Blueprint Catalog Smart Build Manage Smart Migrate Smart Check PREVIEW Smart Scale

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[Getting Started Guides](#)

 Smart Migrate

Simplify migration from XenApp 6.x to a XenApp and XenDesktop 7.x Site.

 Smart Check

Stay on top of your Site's health, diagnose issues, and learn about recommended fixes to keep your site running smoothly.

 Smart Scale

Keep costs of your cloud based deployments under control with usage and schedule based scaling.

Proactive health check of Citrix environments on-premises and cloud

Aggregates multiple diagnostics and troubleshooting tools (supportability tools, CIS and update service

Support XenApp and XenDesktop 7.6 and beyond

Checks FMAservices, delivery groups and missing update

Citrix Cloud | Smart Tools

Resources & Settings Blueprint Catalog Sm

Smart Check

XenApp And XenDesktop

RISC Last Check Nov 04 04:40 0 Errors 1 Warnings

Demolab Last Check Nov 03 09:32 30 Errors 27 Warnings

CDF tracing is enabled.

Database updates (XDUs) have been applied.

Database version matches the expected version.

Feature names are valid.

Windows Firewall rules are enabled.

Host connection is not in maintenance mode.

HTTP/HTTPS namespace reservation exists.

Read Committed Snapshot is enabled.

Service registration is in completed state.

SQL Server version and service-pack level checked.

Stored Configuration service instances are valid and up-to-date.

Citrix administrators have rights assigned.

Citrix administrators are included in Domain Users group.

The license server information matches the information in the Configuration Service.

The selected account for machine creation is valid.

Citrix Monitor service can access the Monitoring database.

Citrix Monitor service data processing has started and is running smoothly.

Citrix Monitor service data querying module has started.

Citrix Monitor service is using the correct settings for analyzing and removing unnecessary data.

Citrix Monitor service is using the correct settings for grooming the data.

Citrix Monitor service is using the correct settings for the consolidating data.

Monitoring data collection has started.

Database schema matches the expected schema.

A hypervisor connection can be established.

Hypervisor infrastructure has been verified.

Hypervisor networks have been verified.

Hypervisor storage locations have been verified.

An Organization Unit in the AD identity pool exists.

The AD identity pool, as configured, is suitable for provisioning accounts.

The AD identity pool is unlocked.

A recent database backup exists.

The licensed product edition supports Configuration Logging.

The Configuration Logging database is connected.

Configuration Logging machine SID resolution is successful.

The virtual machine has disks attached.

Connectivity to core XenDesktop services is established.

Connectivity to peer database instances is established.

File-based logging permissions are enabled and sufficient disk space is available.

A XenDesktop service account exists.

A XenDesktop service account is available in the AD Identity Service.

The Site database can be reached.

The next account generated by the AD identity pool does not exist already.

The service instance is registered with the Configuration Service.

Windows Firewall allows inbound ICMP Echo requests.

Windows Remote Management (WinRM) is enabled.

Port 80 allows inbound connections for the XenApp and XenDesktop PowerShell SDK. (Delivery Controllers only)

Port 5985 allows inbound connections for Windows Remote Management. (Delivery Controllers and VDAs)

Diagnostics

Hidden Discovered Sites 1

Site Discovery

View Report

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Help

Citrix Cloud | Smart Tools

Smart Check PREVIEW Smart Scale

Resources & Settings Blueprint Catalog Smart Build Manage Smart Migrate Smart Check PREVIEW Smart Scale

Help

ALL SITES

XDPOC

Health Alerts Site Details View Reports Perform Check Configure

2 TOTAL ISSUES | 0 Errors 2 Warnings 0 Updates

> Showing last 4 checks run. Last checked on Nov 04 04:37 AM PDT. Next scheduled check: Nov 05 04:35 AM PST.

End User

Delivery Groups (1) No Issues found

StoreFront

Perform Check to Discover

Controllers (1)

! 0 ▲ 1 ⓘ 0

Machine Catalogs (1)

! 0 ▲ 1 ⓘ 0

Provisioning Service

Perform Check to Discover

Licensing Server

Perform Check to Discover

```
graph LR; EU[End User] --> DG[Delivery Groups]; DG --> SF[StoreFront]; SF --> C[Controllers]; C --> MC[Machine Catalogs]; C --> PS[Provisioning Service]; C --> LS[Licensing Server];
```

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ALL SITES

Demolab

Health Alerts Site Details

View Reports Perform Check Configure

BACK TO ALL COMPONENTS Controllers (2)

DEMOWAP0003.DEMOLAB.local FQDN : DEMOWAP0003.DEMOLAB.local Version : 7.15.0.86 IP : 192.168.178.11

⚠ Incorrect firewall configuration for Citrix Host Availability Service

⚠ Incorrect firewall configuration for Citrix Analytics Service

⚠ Incorrect firewall configuration for Citrix Storefront Service

⚠ Incorrect firewall configuration for Citrix AD Identity Service

⚠ Incorrect firewall configuration for Citrix Delegated Administration Service

⚠ Incorrect firewall configuration for Citrix Broker Service

⚠ Incorrect firewall configuration for Citrix Configuration Logging Service

⚠ Incorrect firewall configuration for Citrix Machine Creation Service

⚠ Incorrect firewall configuration for Citrix Environment Test Service

⚠ Incorrect firewall configuration for Citrix Monitor Service

Incorrect firewall configuration for Citrix Host Availability Service

The Citrix firewall rule **CitrixHostService** might be missing, disabled, or might refer to the wrong network port.

Controllers warning found on Oct 29 09:30 PM CET Hide Alert

Where found

The issue was found on the machines listed below:
demowap0003.demolab.local

Fix Recommendation

Rerun the service executable with the command line argument -CONFIGUREFIREWALL to repair the firewall configuration.

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ALL SITES

XDPOC

Health Alerts Site Details

View Reports Perform Check Configure

BACK TO ALL COMPONENTS Controllers (1)

XDPOCWAP0001.XDPOC.local

FQDN : XDPOCWAP0001.XDPOC.local Version : 7.15.0.86
IP : 192.168.178.130

No recent backup for Site database

No recent backup for Site database

Smart Tools couldn't find a recent backup for the Site database. The database CitrixXDPOCSite, CitrixXDPOCLogging, CitrixXDPOCMonitoring on server XDPOCWAP0001\SQLEXPRESS has not been backed up for 7 days. If you have configured mirroring for the Site database, this alert could appear if the mirror has not been backed up recently.

Controllers warning found on Nov 04 04:37 AM PDT Hide Alert

Where found

The issue was found on the machines listed below:
xdpocwap0001.xdpoc.local

Fix Recommendation

Create a backup of the Site database. Additionally, consider creating a maintenance backup plan for Microsoft SQL Server, if one doesn't exist already. A maintenance backup plan ensures administrative tasks, like



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[ALL SITES](#)

XDPOC

[Health Alerts](#)[Site Details](#)[View Reports](#)[Perform Check](#)[Configure](#)

⋮

[BACK TO ALL COMPONENTS](#)

Machine Catalogs (1)

CST-DemoCatalog

Allocation Type : Random
Installed VDA Version : N/A
Provisioning Type : Manual
Running VDAs : 0

Disk Image : N/A
Associated VM : Random
Operating System : N/A
User data handling : Discard

⚠ Unregistered VDAs in Delivery Group**Unregistered VDAs in Delivery Group**

VDAs in the Delivery Group are unregistered and might not be communicating with the Site. This issue can occur if the VDAs were not added to the Site correctly, the VDA firewall is blocking communication with the Site, or the DNS or network adapters on the VDA are not configured correctly. If the VDAs cannot register with the Site, users might not be able to connect to the applications and desktops hosted on these machines. For more information about VDA registration, see [VDA Registration with Controllers](#) on the Citrix Product Documentation web site.

Machine catalogs warning found on Nov 04 04:37 AM PDT [Hide Alert](#)

Where found

The issue was found on the machines listed below:

xdpocwrd0000-1.xdpoc.local
xdpocwrd00-1.xdpoc.local

Smart Check ran checks on **XDPOC** and found 4 issues.

0 Errors, 4 Warnings and **0 Updates** were found:

Controllers	0 Errors	3 Warnings	0 Updates
Machine Catalogs	0 Errors	1 Warning	0 Updates

Checks Details

Checks Performed Successfully	Issues Found
Update Checks	1
Site Health Checks	1
Apps and Desktops Health Checks	2

For details, log on to Smart Tools and select your customer account, if applicable. Then, click **Smart Check** and click **View Report** for your Delivery Site.

[View Report in Smart Tools](#)



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Help

-  All
-  Owned by me
-  Shared with me
-  Added From Catalog
- Object Types**
-  Blueprint
-  Script
-  Check
- Tags**
-  NetScaler
-  XenDesktop

Library

[+ New Script](#)[+ New Blueprint](#)[Search library](#)[New Check](#)[Add Smart Check Alerts](#)

Type	Name	Actions
	Domain Member	 This blueprint adds a computer to an existing Active Directory domain. For more details on Citrix Smart Tools and Blueprint deployment please visit http://manage-docs.citrix.com/hc/en-us/articles/115001578043 Oct 22, 2017 06:09PM
	Domain Controller	 Create a new Windows Active Directory domain with a single domain controller Oct 22, 2017 06:09PM
	xenappblog // Advanced XenDesktop PoC	 xenappblog.com // This is an Advanced XenDesktop PoC which let's you try FSLogix, ControlUp, uberAgent, Norskale, Splunk and Devolutions. The Server VDA also... Oct 18, 2017 08:00PM
	Amazon Cloud Access Server	 This is a component blueprint to create a cloud access server (or bastion host) in an Amazon VPC public subnet to allow an administrator remote access to manage ... Oct 17, 2017 07:11PM
	XenApp and XenDesktop without SQL	 This blueprint creates a production-ready XenApp or XenDesktop deployment that you attach to your existing Active Directory and SQL infrastructure. First, ... Oct 17, 2017 07:10PM
	XenApp and XenDesktop Published Resources	 This blueprint is designed to be used after a XenDesktop site has been created using the XenApp and XenDesktop Proof of Concept blueprint. It will ... Oct 17, 2017 07:09PM
	Storefront Server	 Component blueprint to create a standalone Storefront server joined to an existing domain providing access to Citrix resources. The blueprint may be used to add ... Oct 17, 2017 07:09PM

<https://manage-docs.citrix.com/hc/en-us/articles/115001578043>

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Blueprint Designer Blueprint Catalog | Untitled Deploy

Search

> My Script
> Shared Script
> Check

Overview Deploy

Enter metadata for your Check. [Learn More](#)

Name Untitled

Description

Tags

Applicable Targets Delivery Controllers VDAs Provisioning Services Licensing Server StoreFront

Prerequisites

You can add up to 500 alerts to to your Smart Tools account.

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Cancel Save

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New to Smart Tools? Start with checking the health of your XenDesktop Site. You'll uncover suggested updates and view other key health indicators. [Learn More](#)



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 [Getting Started Guides](#)



Smart Migrate

Simplify migration from XenApp 6.x to a XenApp and XenDesktop 7.x Site.

Preview



Smart Check

Stay on top of your Site's health, diagnose issues, and learn about recommended fixes to keep your site running smoothly.



Smart Scale

Keep costs of your cloud based deployments under control with usage and schedule based scaling.

resource location support

Resource location type	Setup information required	VM preparation required
Amazon EC2	<ul style="list-style-type: none"> • Access key ID • Secret access key 	Not applicable.
Citrix XenServer	<ul style="list-style-type: none"> • Server URL of your XenServer host. For example, "https://XenServer-host-IP-address:80" • Username and password for the XenServer host. • The name and IP address of the machine you set up to act as the connector. 	To use Windows Server 2012 R2 VMs in this resource location, you must prepare a VM template.
VMware vSphere	<ul style="list-style-type: none"> • Server URL of your ESX host or vCenter server. For example, "https://vCenter-Server-IP-address:443" • Username and password for the ESX host or vCenter server. • The name and IP address of the machine you set up to act as the connector. 	To use Windows Server 2012 R2 VMs in this resource location, you must prepare a VM template.
Microsoft Hyper-V Server	<ul style="list-style-type: none"> • Name or IP address of the Hyper-V Host • Windows Domain name OR Server name • Username and password of the Hyper-V host • The name and IP address of the Windows machine you prepare as the connector between the resource location and Smart Tools. 	<ul style="list-style-type: none"> • To use VMs in this resource location: Prepare a virtual hard disk (VHD) file. A VHD is a hard disk file format of a virtual machine. It can contain disk partitions, file system, data, and structural elements. You can store the VHD file in a location that the host machine can access. • Ensure the Hyper-V host can access the VHD file.
Microsoft Azure Classic	Microsoft Azure Publish Profile	Microsoft Azure Classic



Resources & Settings

Blueprint Catalog

Smart Build

Resources & Settings

Resource Locations

User Settings

My Profile

Roles

Users

Notifications

Add Resource Location

Select a resource location type

XenServer **amazon web services™** **Microsoft Hyper-V Server** **Microsoft Azure**
Classic **vmware vSphere**

requires 3389 inbound during installation

Cancel

Next

Citrix Cloud | Smart Tools

3 5 ?

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Resource Locations

+ Add Resource Location

Name	Actions
>  AmazonAWS	▼
>  Azure	▼
>  Demolab	▼
>  RISC	▼

Search resource locations



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Help

 All Owned by me Shared with me Added From Catalog

Object Types

 Blueprint Script Check

Tags

 NetScaler XenDesktop

Library

 New Script New Blueprint Search library

Type	Name	Actions	Description	Last updated
	Domain Member		This blueprint adds a computer to an existing Active Directory domain For more details on Citrix Smart Tools and Blueprint deployment please visit http://manage-	Oct 22, 2017 06:09PM
	Domain Controller		Create a new Windows Active Directory domain with a single domain controller	Oct 22, 2017 06:09PM
	xenappblog // Advanced XenDesktop PoC		xenappblog.com // This is an Advanced XenDesktop PoC which let's you try FSLogix, ControlUp, uberAgent, Norskale, Splunk and Devolutions. The Server VDA also...	Oct 18, 2017 08:00PM
	Amazon Cloud Access Server		This is a component blueprint to create a cloud access server (or bastion host) in an Amazon VPC public subnet to allow an administrator remote access to manage ...	Oct 17, 2017 07:11PM
	XenApp and XenDesktop without SQL		This blueprint creates a production-ready XenApp or XenDesktop deployment that you attach to your existing Active Directory and SQL infrastructure. First, ...	Oct 17, 2017 07:10PM
	XenApp and XenDesktop Published Resources		This blueprint is designed to be used after a XenDesktop site has been created using the XenApp and XenDesktop Proof of Concept blueprint. It will ...	Oct 17, 2017 07:09PM
	Storefront Server		Component blueprint to create a standalone Storefront server joined to an existing domain providing access to Citrix resources. The blueprint may be used to add ...	Oct 17, 2017 07:09PM
	NetScaler VPX (Azure Resource Manager)		This is a technical preview blueprint to create a NetScaler VPX using the Azure Resource Manager API. This blueprint will deploy "NetScaler VPX 12.0 Bring ...	Oct 17, 2017 07:09PM
	XenApp and XenDesktop Service: Cloud Con...		This blueprint creates a single Cloud Connector server to provide connectivity to the cloud as part of a Citrix Cloud Resource Location. For more information go to ...	Oct 17, 2017 07:08PM
	XenApp and XenDesktop Service: Resource L...		This blueprint creates a Citrix Cloud Resource Location. The core of a Resource Location consists of a Domain Controller and two Cloud Connector servers. If you ...	Oct 17, 2017 07:08PM
	(Existing Domain) XenApp and XenDesktop S...		This blueprint creates a Citrix Cloud Resource Location for a deployment with an existing Active Directory domain. The core of a Resource Location that will be ...	Oct 17, 2017 07:08PM

Prerequisites

XenServer, Hyper-V, vSphere

prepare with sysprep

```
cd %windir%\system32\sysprep  
Sysprep /generalize /oobe /shutdown /unattend:c:\unattend.xml
```

Azure, AWS

use provided images

Ports
443 outbound

Citrix Cloud | Smart Tools

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XenApp and XenDesktop Proof of Concept

Blueprint Version	2
Purchased Version	135
Last Updated	Oct 12, 2017 04:06PM
Supported Resource Locations	All
Tags	XenDesktop, XenDesktop

Start deployment setup

Description

This blueprint creates a standalone, small scale installation of XenDesktop suitable for a proof of concept deployment. A new Active Directory domain will be created with a single domain controller. A XenDesktop Delivery Controller is then created upon which will be installed an SQL Express database, the XenDesktop Controller, Citrix Studio, Storefront and a Citrix License Server. The blueprint will then create a new XenDesktop database and site. A Windows Server will then be created with the Virtual Desktop Agent (VDA) installed; the VDA may be configured for XenApp style shared desktops or Server VDI. To demonstrate that your XenDesktop installation is fully operational the VDA will be registered in a machine catalog and published to all domain users. The final optional step of this blueprint is to configure a NetScaler Gateway to provide secure remote access to the XenDesktop Storefront.

Once the blueprint execution has completed, log in to your XenDesktop site via the NetScaler Gateway (if configured) or Storefront on the Delivery Controller. Click on the published desktop icon to launch your first desktop session.

The blueprint supports XenApp and XenDesktop 7.15 LTSR (the default), XenApp and XenDesktop 7.14.1 and XenApp and XenDesktop 7.13

For more information please visit <http://manage-docs.citrix.com/home>

Blueprint Architecture

XenApp and XenDesktop Proof of Concept
Domain Controller

Create Domain Controller

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RISConsultin XenApp And XenDesktop Proof Of Concept

XenApp and XenDesktop Proof of Concept

Overview Resource Location Architecture Size Configuration Summary

Enter deployment name and select a predefined profile

Deployment name * XenApp and XenDesktop Proof of Concept

Deployment profile ctxpoc

Profiles contain input settings for location, scaling, sizing and software configuration.

Cancel Next

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Resources & Settings

Blueprint Catalog

Smart Build

Manage

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Smart Check PREVIEW

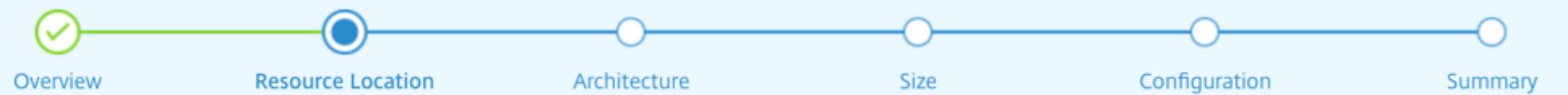
Smart Scale

Help

RISConsultin

XenApp and XenDesktop Proof of Concept

XenApp And XenDesktop Proof Of Concept



Select resource location

The following resource locations are supported by this blueprint:

Resource Location *

   Cancel Back

Next

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RISConsultin XenApp And XenDesktop Proof Of Concept

XenApp and XenDesktop Proof of Concept

Overview Resource Location Architecture Size Configuration Summary

Enter blueprint architecture options

XenApp And XenDesktop Proof Of Concept

Configure NetScaler * no

Cancel Back Next

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Resources & Settings Blueprint Catalog Smart Tools

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XenApp and XenDesktop Proof Of Concept

Overview

Blueprints

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Logs

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Pre-deployment Checklist

1 Review deployment preparations notes

Important note: If you are using this blueprint to deploy XenApp and XenDesktop 7.13 please make sure that your Windows template has Windows Update KB 2919355 installed.

If you deploy this blueprint into an Azure Virtual Network please note that only one instance of the blueprint may be deployed per Virtual Network.

You will need the following to successfully deploy the optional NetScaler component of this blueprint:

1. The address and credentials for an existing NetScaler appliance that will be used to configure the NetScaler Gateway. The NetScaler appliance must have been configured with IP address (NSIP) any required subnet IP addresses (SNIP) and be licensed for a NetScaler Gateway.
2. An available IP address to assign to the NetScaler Gateway.
3. A file containing an X.509 certificate and private key to assign to the NetScaler Gateway. The file will be uploaded directly to NetScaler and may contain just the certificate and key or a certificate bundle (see NetScaler documentation for more details of certificate bundles and acceptable file formats).
4. The URL for a web server or address of Windows file share from which the certificate file can be downloaded. If you are using a Windows share that requires authentication you may also need a user name and password for authenticating to the share.
5. The external URL by which the NetScaler Gateway will be accessed (for example: <https://gateway.example.com>)

2 Resource Location

Select a resource location where you will deploy this blueprint. The checklist will display requirements and recommendations for the machines that Smart Tools will provision for this blueprint.

Resource location: XenServer 7.1

3 Ensure the Windows template you specify for this blueprint meets the following requirements.

These requirements enable Smart Tools to provision machines from the template, install the Smart Tools Agent on each machine and ensure that machines for this blueprint are deployed successfully. [Learn more about VM templates](#)

4 Gather all parameters needed for deployment configuration

Export these parameters to a CSV file so you can import the parameter values when you configure the deployment.

[Export parameter list \(.csv\)](#)

Show Parameter List ▾

Cancel Continue

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Citrix Cloud | Smart Tools

Smart Build Manage Smart Migrate Smart Check PREVIEW Smart Scale

RISConsultin XenApp And XenDesktop Proof Of Concept

XenApp and XenDesktop Proof of Concept

Overview Resource Location Architecture Size Configuration Summary

Set up creation of new VMs or select existing VMs for the deployment.

Create new VMs Use existing machines

VM Tiers Components

Domain Controller

Demolab

Virtual Machine Name: **xd-poc-dc**
Instance Count: **1**
Template Name: **Windows_Server_2016**
Home Server: **xenserver**
Num of CPU: **2**
Topology: **1 socket(s) with 2 core(s) per socket**
Memory Size: **2048 MB**
Disk: **default disk 0:32.00 GB**
Network: **Auto generated MAC Address:Network 0**

Create Domain Controller

Create new VMs Use existing machines

XenDesktop Delivery Controller

Demolab

Create XenDesktop Delivery Controller

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RISConsultin XenApp And XenDesktop Proof Of Concept

XenApp and XenDesktop Proof of Concept

Overview Resource Location Architecture Size Configuration Summary

Enter installation and configuration parameters for the deployment. Import Parameters

Get Administrator Credentials

AdministratorName * Administrator

AdministratorPassword *

Create Domain Controller

DomainName * ctxpoc.local

SafeModePassword *

ComputerName * XDPOCWDC0001

Add Kms Record

KmsServerAddress Enter value

Create XenDesktop Delivery Controller

ComputerName * XDPOCWAP0001

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Resources & Settings Blueprint Catalog Smart Build Manage Smart Migrate Smart Check PREVIEW Smart Scale Help

DEPLOYMENTS

XenApp and XenDesktop Proof of Concept

Deployment Details Tear Down

Running... 0% Cancel Pause

Show blueprint sub-step numbers

- 1 Domain Controller
- 2 Establish Administrator Credentials
 - If Azure
 - Azure Path
 - Get Administrator Credentials
 - VTL Expression
 - If not Azure
 - Not Azure Path
 - Get Administrator Credentials
 - VTL Expression
- 3 Create Domain Controller
 - Rename Computer
 - Reboot Step
 - Set Administrator Password
 - Create Domain Controller
 - Reboot Step
 - Wait for Domain to become available
 - Create DNS Reverse Lookup Zone
 - If Hypervisor
 - Hypervisor Path
 - Add Kms Record
- 4 If AWS deployment
 - AWS Path
 - Bastion

Domain Controller
Started processing task: Domain Controller at: Oct 27, 2017 09:24PM

Step Details Step Output

Machine	Result

RIS CONSULTING

```
8 .DESCRIPTION
9 The script will load the ServerManager module and invoke the Add-WindowsFeature to add the specified feature.
0 Since Windows Server 2016 script needs to check whether the feaure exists (e.g. Desktop-Experience no longer exists in 2016)
1
2 .PARAMETER Name
3 NAME of the feature to install (use Get-WindowsFeature to list available features)
4
5 #>
6 Param(
7     [Parameter(Mandatory=$true)]
8     [string]$Name
9 )
0
11 $ErrorActionPreference = "Stop"
12 try {
13     Import-Module ServerManager
14     $feature = Get-WindowsFeature -Name $Name
15     if ($feature.InstallState -eq "Available") {
16         Add-WindowsFeature -Name $Name -IncludeAllSubFeature
17         "Windows feature $Name added"
18     } elseif ($feature.InstallState -eq "Installed") {
19         "Windows feature $Name already installed"
20     } else {
21         "Windows feature $Name does not exist"
22     }
23 } catch {
24     $error[0]
25     exit 1
26 }
```



Resources & Settings

Blueprint Catalog

Smart Build

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Help

DEPLOYMENTS

XenApp and XenDesktop Proof of Concept

Deployment Details

Tear Down

⋮



XenApp and XenDesktop Proof of Concept complete

×

The following VMs and components have been configured.

Get Deployment Report

Domain Controller



IP: 192.168.178.128

Component: Create Domain Controller

XenDesktop Delivery Controller



IP: 192.168.178.130

Component: Create XenDesktop Delivery Controller

Create Domain Member

Publish Demo Desktop

Create NetScaler Gateway

Server VDA



IP: 192.168.178.166

Component: Create Server VDA

Create Domain Member

Bastion

Component: Create Bastion

Create Domain Member

Back Forward Add New Server | New Pool New Storage New VM Shut Down Reboot Suspend

Search... XDP0CWAP0001-2 on 'xenserver' Logged in as: Local root account

XenCenter

xenserver

- Windows Server 2016
- XDPOCWAP0001-2
- XDPOCWDC0001-1
- XDPOCWRD0001-1
- XDPOCWRD0001-2
- DVD drives
- Local storage
- Removable storage
- SMB ISO library
- TEMPLATE_W2K12R2
- TEMPLATE_W2K16
- Windows_10_Template

DVD Drive 1: guest-tools.iso Eject Turn on Remote Desktop

Citrix Studio

File Action View Help

Console Root

- Citrix Studio (XDPOC)
- Search
- Machine Catalogs
- AppDisks
- Delivery Groups
- Applications
- Policies
- Logging
- Configuration
- Administrators

CITRIX Common Tasks Actions PowerShell

Common Tasks Use this screen to perform common maintenance tasks.

Actions

Citrix Studio (XDPOC) View Help

Programs and Features

Control Panel Home Uninstall or change a program

View installed updates To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Turn Windows features on or off

Install a program from the network

Organize

Name	Publisher	Installed On	Size	Version
Citrix 7.15 LTSR - StoreFront	Citrix Systems, Inc.	10/27/2017	3.12.0.17	
Citrix 7.15 LTSR - XenDesktop	Citrix Systems, Inc.	10/27/2017	7.15.0.15097	
Citrix Smart Tools Agent	Citrix Systems, Inc.	10/27/2017	18.5 MB	2.6.0.1
Citrix XenServer Windows Management Agent	Citrix	10/16/2017	9.03 MB	7.1.1020
Microsoft ODBC Driver 11 for SQL Server	Microsoft Corporation	10/27/2017	4.62 MB	12.2.5000.0
Microsoft SQL Server 2008 Setup Support Files	Microsoft Corporation	10/27/2017	38.9 MB	10.3.5500.0
Microsoft SQL Server 2012 Native Client	Microsoft Corporation	10/27/2017	7.22 MB	11.2.5643.3
Microsoft SQL Server 2014 (64-bit)	Microsoft Corporation	10/27/2017		
Microsoft SQL Server 2014 Express LocalDB	Microsoft Corporation	10/27/2017	231 MB	12.2.5000.0
Microsoft SQL Server 2014 Setup (English)	Microsoft Corporation	10/27/2017	50.9 MB	12.2.5000.0
Microsoft SQL Server 2014 Transact-SQL ScriptDom	Microsoft Corporation	10/27/2017	6.18 MB	12.2.5000.0
Microsoft Visual C++ 2010 x64 Redistributable - 10.0....	Microsoft Corporation	10/27/2017	13.8 MB	10.0.40219
Microsoft Visual C++ 2010 x86 Redistributable - 10.0....	Microsoft Corporation	10/27/2017	11.1 MB	10.0.40219

Send Ctrl+Alt+Del (Ctrl+Alt+Insert) Scale Undock (Alt+Shift+U) Fullscreen (Ctrl+Enter)

17:37 DEU 04.11.2017

Citrix on Azure requires compute, network and storage resources

Use Citrix Power Management and Smart Scale to control workloads and optimize costs

Improve Citrix-stack efficiency on-premises and in the cloud

New to Smart Tools? Start with checking the health of your XenDesktop Site. You'll uncover suggested updates and view other key health indicators. [Learn More](#)



Smart Build

Quickly create a new XenApp and XenDesktop Site on-premises and in the cloud.

 [Getting Started Guides](#)



Smart Migrate

Simplify migration from XenApp 6.x to a XenApp and XenDesktop 7.x Site.

Preview



Smart Check

Stay on top of your Site's health, diagnose issues, and learn about recommended fixes to keep your site running smoothly.



Smart Scale

Keep costs of your cloud based deployments under control with usage and schedule based scaling.

Citrix Cloud | Smart Tools

Smart Check PREVIEW

Smart Scale

ALL SITES

Demolab

Return to Site Monitoring

Smart Scale configuration

Set up Smart Scale options for each of the delivery groups in your deployment. [Learn more about supported delivery groups](#)

To configure Smart Scale notifications go to [Resource & Settings > Notifications](#)

DG - Windows Server 2016 Disabled

DG - Windows Server 2016

Scaling Disabled

DETAILS

Description: DG - Windows Server 2016

Time Zone: W. Europe Standard Time

Total Machines: 2

CAPACITY MANAGEMENT

Advanced

Load-based and schedule-based scaling

Schedule-based scaling only

Load-based scaling only

Load-based Scaling Settings

Scale metric: Session count

Default

Min # of Registered Machines On: 1

Occurs at times when no other schedule is defined.

MONITORING

Cost (in USD) per hour consumed for each machine instance, for estimated savings

0.06 US dollars

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supported on EC2, Azure and XenServer

Sinisa Sokolic
RIS Consulting GmbH

scaling support

Schedule-based	Load-based	Load & schedule-based
Server OS machines hosting published applications or hosted shared desktops (Server VDI)	Supported.	Supported.
Desktop OS machines hosting static persistent (dedicated) VDI desktops	Supported. During periods when machines are powered off (for example, after working hours), users can trigger machines to power on through Citrix Receiver.	Not currently supported.
Desktop OS machines hosting random non-persistent VDI desktops (pooled VDI Supported. desktops)		Supported. Use the Session Count scaling metric and set the maximum number of sessions to 1.
Schedule-based	Load-based	Load & schedule-based

Smart Scale support

XenApp and XenDesktop, the XenApp and XenDesktop Service, XenApp Essentials, and XenDesktop Essentials

Power management for a single Site using one of these services is supported as follows:

Up to 2,000 VDAs or VDIs per Site can be power managed.

Up to 120 Delivery Groups can be power managed.

Up to 1,000 VDAs or VDIs per Delivery Group can be power managed.



Resources & Settings

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Help

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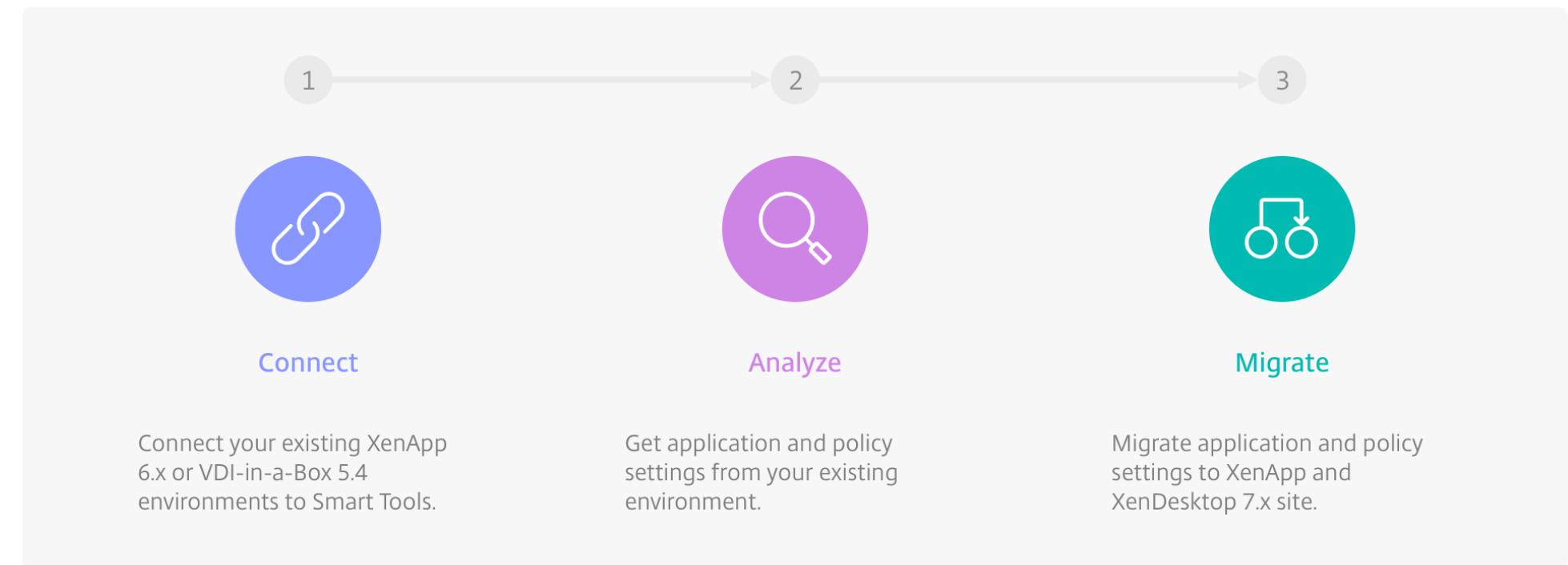
Smart Scale

Help

Smart Migrate

Migrate your XenApp 6.x farm and VDI-in-a-Box 5.4 application and policy settings to XenApp and XenDesktop 7.x. Add a migration project and let Smart Tools walk you through each step in the process.

What happens in Migrate?



+ Add A Migration Project



Resources & Settings

Blueprint Catalog

Smart Build

Help

Smart Migrate
Migrate your project and...
What happens...

Add Migration Project

Enter migration project details:

Name: Demo Migration

Description: Project description

Migration Type: XenApp 6.5 to XenApp 7.x

i Before performing the migration, complete the following required tasks. [Learn More](#)

- For fully automated migrations, install the **Smart Tools Agent** on one XenApp 6.x and 7.x controller.
- For migrations to XenApp 7.13, install the [XenApp 6.5 PowerShell SDK](#) on one XenApp 7.13 Controller. Smart Migrate does not support XenApp 7.14 or later.
- On the XenApp controller, set the **PowerShell execution policy** to allow execution of RemoteSigned scripts.

[Cancel](#) [Add](#)

[+ Add A Migration Project](#)

Smart Migrate does not support XenApp 7.14 or later.

Limitations

Only server installed applications are supported

Published desktops are not supported

Most streamed applications are not supported

During import a delivery group is created

Only AppCenter Policies are migrated

Nested folders deeper than 5 levels are not supported by Studio and will not be imported

(GMT+01:00) Bern

SERVICES**SERVICES HISTORY**

● Service is operating normally ● Performance issues ● Service disruption

US

[Previous week >](#) [First week »](#)

SERVICE NAME	TODAY	28 OCT	27 OCT	26 OCT	25 OCT	24 OCT	23 OCT
Citrix Cloud	●	●	●	●	●	●	●
XenApp and XenDesktop Service	●	●	●	●	●	●	●
ShareFile	●	●	●	●	●	●	●
XenMobile Service	●	●	●	●	●	●	●
Smart Tools	●	●	●	●	●	●	●
Secure Browser Service	●	●	●	●	●	●	●

thank you

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