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Citrix Tech Zone

May 5, 2021

Citrix Tech Zone is home for technical, in-depth articles that are inspired and driven by technical communities and enthusiasts. Whether you are an architect, consultant, engineer or technical IT manager, you have come to the right place!

Here you will learn from experts and gain insights into Citrix technologies and integrations for successful deployments of your Citrix environment through articles, tech best practices, videos, and much more.

Table of Content - By Product

October 28, 2021

List of Tech Zone articles, organized by main product.

Citrix Analytics

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Performance Analytics - Gain visibility into your environment through user-centric experience scores, application & infrastructure performance scores with Performance Analytics.

Security Analytics - Generate actionable insights about your environment, enabling administrators to proactively handle user and application security threats.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.
Analytics - Provide visibility into your environment to protect it from malicious users and to improve the end user experience proactively.

Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.


Proof of Concept-Performance Analytics - Learn how to get started with Citrix Analytics for Performance.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Citrix Analytics - Learn about analytics services offered by Citrix Cloud including security analytics, performance analytics, and integration with other Citrix portfolio products.

DaaS for Contact Centers Reference Architectures - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Zero Trust Network Access for Contractors and Temp Workers - This reference architecture explains CompanyA's Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

Citrix Content Collaboration

Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

Citrix Workspace App for Microsoft Teams - Learn how to enable the Citrix Workspace App for Microsoft Teams to enable your users to easily access their Citrix ShareFile documents and share them within Teams.
**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**Content Collaboration with on-premises storage zones** - Learn about the architecture and design considerations for deploying an on-premises customer-managed storage zone to provide the best user experience and security for Citrix Content Collaboration.

**Content Collaboration with storage zones on Azure IaaS** - Learn about the architecture and design considerations for deploying a customer-managed storage zone in Azure to provide the best user experience and security for Citrix Content Collaboration.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

**Citrix Files with Citrix Virtual Apps and Desktops Service** - Learn how to deploy the Citrix Files Client for Windows in a virtual app and desktop environment. This article includes related components, tips, and leading practices for optimal performance and management.

**Citrix Endpoint Management**

**Learn - Tech Insights**

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

**Contact Center Solution** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

**Google Chrome OS Management** - Manage Chrome OS devices with Citrix Endpoint Management.

**MDX Containers for iOS** - Citrix Endpoint Management MDX containers protect mobile apps and control their access to device resources through policy mitigating the risk of unwanted enterprise data loss.

**Micro VPN** - On-demand, per-app VPN that gives access to a specific app back end resource without the risk of opening a full tunnel to your data center.

**Mobile SSO** - Single sign-on to native mobile applications via Citrix Gateway.

**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.
Citrix Tech Zone

**Citrix Endpoint Management** - Learn about Unified Endpoint Management and let employees work how, when and where they want with the power to manage every app, device and platform in one central location.

**Mobile SSO** - Native mobile app single sign-on for iOS and Android SaaS applications.

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**Citrix Endpoint Management with Microsoft EMS/Intune and Android Enterprise Integration** - Learn about the architecture and integration with Microsoft EMS/Intune and Android Enterprise to deliver applications securely to any device and how it enables security and productivity benefits for both Microsoft EMS/Intune and Citrix customers.

**DaaS for Contact Centers Reference Architectures** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

**Migration from Android Device Administrator to Android Enterprise with Citrix Endpoint Management** - Learn how to migrate your Citrix Endpoint Management policies and apps step by step. Take your Endpoint Management from a legacy Android Device Administrator deployment to Android Enterprise by using a managed Google Play account.

**Citrix Networking**

**Learn - Tech Insights**

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

**AlwaysOn VPN** - Manage remote domain joined Windows endpoints 24x7 by providing LAN-like access with AlwaysOn VPN.

**Citrix Web App and Api Protection service overview** - See how Citrix Web App and API Protection (CWAAP) service can provide effective security against BOTs, DDoS, zero-day exploits, and other attacks.
**Microservices-Based Application Delivery with Citrix and Red Hat OpenShift - Reference Architecture overview** - See how Microservices-Based Application Delivery with Citrix and Red Hat OpenShift can provide reliable, and scalable delivery of Microservices.

**Microsoft Teams Optimization** - Learn how Citrix Virtual Apps and Desktops, along with Citrix SD-WAN, can optimize Microsoft Teams and provide a great user experience.

**Office 365 Optimization for Branch Offices** - Learn how Citrix SD-WAN implements Microsoft Connectivity Principles to support Office 365 Optimization for Branch Offices.

**SD-WAN** - Optimize delivery of Citrix Virtual Apps and Desktops traffic with Citrix SD-WAN.

**YouTube Optimization for Branch Offices** - Optimize YouTube delivery in branch offices with Citrix Virtual Apps and Desktops and Citrix SD-WAN.

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**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

**Citrix Gateway and Citrix Virtual Apps and Desktops** - Learn why Citrix Gateway is the best secure remote access solution for Citrix Virtual Apps and Desktops.

**Citrix Web App and API Protection service** - With cyber threats rising and modern application architectures getting more complex, organizations need a more straightforward way to defend against bots, DDoS, zero-day exploits, and other attacks. Learn how Citrix Web App and API Protection (CWAAP) service can provide effective security against these attacks.

**Gateway service for HDX Proxy** - Provides users with secure remote access to Citrix Virtual Apps and Desktops without having to deploy Citrix Gateway in the on-premises DMZ or reconfigure firewalls.

**Multifactor Authentication with Citrix nFactor** - Learn how you can implement various Multifactor Authentication methods with Citrix ADC nFactor Authentication.

**SD-WAN Cloud Direct service** - Optimize SaaS access for branch users by tunneling session traffic to Internet Exchanges with direct connectivity to popular sites.

**SD-WAN Deployment Scenarios** - Learn about different scenarios to optimize user experience with Citrix Workspace by deploying Citrix SD-WAN.


**SD-WAN for Home Offices** - Learn how to work from home with secure, enhanced, and resilient connectivity using the Citrix SD-WAN 110 appliance.

**SD-WAN for Workspace** - Provides optimal network connectivity between Enterprise branch offices and their Workspace hosted in data resource locations on-premises or in the cloud.
Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

nFactor for Citrix Gateway Authentication with Device Certificate - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Device Certificates.

nFactor for Citrix Gateway Authentication with Email OTP - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with email one-time password.

nFactor for Citrix Gateway Authentication with Group Extraction - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Group Extraction.

nFactor for Citrix Gateway Authentication with Native OTP - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Native OTP.

nFactor for Citrix Gateway Authentication with Push Token - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Push Token.

Protecting Gateway Virtual Servers with WAF, Bot, and Advanced Authentication Policies - Learn how to use the security tools built into the Citrix ADC to protect VPN and Gateway virtual servers, including Web Application Firewall (WAF), Bot Security, and Advanced Authentication Policies.

SD-WAN Cloud-to-Data Center Connectivity - Learn how to implement Citrix SD-WAN rapidly to provide secure, enhanced, and resilient connectivity between your public cloud and data center environments.

SD-WAN for Home Offices - Learn how to implement a POC of the Citrix SD-WAN 110 appliance to demonstrate how to work from home with secure, enhanced, and resilient connectivity.

Web Application Firewall Deployment - Learn how to deploy Citrix Web Application Firewall (WAF) standalone or as a part of a Citrix ADC deployment. Protect web servers or applications from various attacks including Cross Site Scripting, SQL Injection, Buffer Overflow, Forceful Browsing and more. Deploy in any public cloud or your on-premises environment.

Learn - Diagrams and Posters

Citrix ADC - File System and Process Cheat Sheet - One-page summary of most common system directories, files, processes/daemons and logs.

Citrix ADC - nFactor Basics Cheat Sheet - One-page summary of nFactor authentication detailing concepts, how it works, nFactor Visualizer information, configuration steps, and more.

Citrix ADC - nsconmsg Commands Cheat Sheet - One-page summary of nsconmsg syntax and troubleshooting tips.
Citrix Tech Zone

**Citrix ADC - SDX Basics and Log File Cheat Sheet** - One-page summary of SDX components and how to access them, common SVM ports, LOM configuration, Link Aggregation on the SDX, and Common Log files for both SVM and Citrix Hypervisor.

**Citrix ADC - Troubleshooting GSLB MEP Cheat Sheet** - One-page summary of GSLB, MEP protocol and troubleshooting tips.

**Citrix ADC - Troubleshooting High Availability Cheat Sheet** - One-page summary of high availability and troubleshooting tips.

**Citrix ADM - Overview Cheat Sheet** - One-page summary of the ADM Platform detailing system requirements, deployment modes, protocols and ports, common log files, common issues/failures, and more.

### Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations with use cases, recommendations, and more.

**Application Delivery Controller - Global Server Load Balancing** - Learn the architecture and deployment considerations for Global Server Load Balancing configuration with Citrix Application Delivery Controller.

**Application Delivery Management** - See how the Citrix Application Delivery Management software is deployed to simplify management and monitoring of your application delivery infrastructure.

**DaaS for Contact Centers Reference Architectures** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Microservices-Based Application Delivery with Citrix and Red Hat OpenShift** - Learn how to design an environment to support cloud-native microservices with Citrix and Red Hat OpenShift.

**SD-WAN** - Learn about the framework, design, and architecture for Citrix SD-WAN with SD-WAN Orchestrator for single region deployment.

**SD-WAN for Content Collaboration** - Learn about the deployment architecture and how Citrix SD-WAN WANOP helps to optimize Citrix Content Collaboration for customer-managed storage zones including relevant test data.

**SD-WAN Multi-Region** - Discover the framework, design, and architecture for Citrix SD-WAN multi-region deployment with SD-WAN Orchestrator.

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Zero Trust Network Access for Contractors and Temp Workers - This reference architecture explains CompanyA’s Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

**Design - Design Decisions**

Design decisions help you guide through the decision process to configure, optimize, and deploy your solution in its best way.

**Citrix SD-WAN for Home Offices** - Understand the design decisions required to implement the Citrix SD-WAN 110 in a Home Office to provide secure, enhanced, and resilient connectivity.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

**Citrix SD-WAN with Azure Virtual WAN** - Learn how to establish connectivity between SD-WAN and Azure Virtual WAN, and connect workloads on Azure with on-premises infrastructure.

**Migrating Citrix ADM to Citrix ADM service** - Learn how to migrate your on-premises Citrix ADM (Application Delivery Management) to Citrix Cloud.

**Build - Tech Papers**

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

**Best practices for Citrix ADC Deployments** - Tech Paper focused on the steps that a Citrix ADC administrator should follow to deploy a new ADC instance with best practice settings.

**Citrix Secure Internet Access**

**Learn - Tech Insights**

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

**Contact Center Solution** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

**Protect apps and data on bring-your-own devices** - See how to support bring-your-own-devices without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops
**Protect contractor and temp worker access** - See how to support contractors and temp workers without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.

**Secure Internet Access User Experience** - Secure access to all applications, anywhere, from any device with unified security management without compromising the employee experience.

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**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

**Citrix Secure Internet Access** - The expansive demand for remote work and the shift of applications to the cloud has made it an absolute must for enterprises to secure user Internet access. Citrix Secure Internet Access (CSIA) shifts the focus from defending perimeters to following users to ensure Internet access is secure regardless of location.

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**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**Citrix Secure Internet Access with Citrix SD-WAN** - Learn how to set up Citrix Secure Internet Access in conjunction with Citrix SD-WAN to provide secure access to SaaS and Web applications anywhere, reliably and securely.

**Citrix Secure Internet Access with Citrix Secure Private Access** - Learn how to set up Citrix Secure Internet Access in conjunction with Citrix Secure Private Access to provide secure access to SaaS and web applications, anywhere, from any device.

**Citrix Secure Internet Access with Citrix Virtual Apps and Desktops** - Learn how to set up Citrix Secure Internet Access within a Citrix Virtual Apps and Desktops environment that provides secure access to virtual desktops and applications, anywhere, from any device.

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**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**DaaS for Contact Centers Reference Architectures** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.
Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Reference Architecture - Protect apps and data on bring-your-own devices - Learn how to design an environment to support bring-your-own-devices without compromising IT security. The reference architecture incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops

Zero Trust Network Access for Contractors and Temp Workers - This reference architecture explains CompanyA’s Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

Citrix Secure Private Access

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Protect apps and data on bring-your-own devices - See how to support bring-your-own-devices without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops

Protect contractor and temp worker access - See how to support contractors and temp workers without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops


Secure Private Access for SaaS Apps - Single sign-on, secure remote access, URL, and content inspection and filtering for SaaS and web applications.

Secure Private Access User Experience - Securely access corporate web, and SaaS applications, with advanced security controls and website filtering for managed, unmanaged, and BYO devices.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Citrix Workspace Essentials and Secure Private Access Getting Started Guide - This guide demonstrates how to configure SaaS and internal web apps with single sign-on (SSO) in Citrix Workspace.
**Secure Private Access** - With Secure Private Access, organizations go beyond access and aggregation to provide IT with policy controls that provide conditional access to cloud apps and internet browsing, enhancing the organization’s overall security and compliance posture.

**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**Secure Access to Azure-managed SaaS Applications and Citrix Secure Private Access** - Learn how to set up a Citrix Secure Private Access environment that provides enhanced security to Microsoft Azure SaaS Apps.

**Secure Access to Internal Web Applications with Citrix Secure Private Access** - Learn how to set up VPN-less access to an internal web application with Citrix Secure Private Access, utilizing Citrix-provided SSO.

**Secure Access to Office 365 with Citrix Secure Private Access** - Learn how to set up a Citrix Secure Private Access environment that provides single sign-on and enhanced security to Office 365.

**Secure Access to SaaS Applications with Citrix Secure Private Access** - Learn how to set up a Citrix Secure Private Access environment that uses Citrix as the single sign-on provider for SaaS applications.

**Secure Access to SaaS Applications with Okta and Citrix Secure Private Access** - Learn how to set up a Citrix Secure Private Access environment that is able to use Okta as the single sign-on provider for SaaS applications.

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**DaaS for Contact Centers Reference Architectures** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Reference Architecture - Protect apps and data on bring-your-own devices** - Learn how to design an environment to support bring-your-own-devices without compromising IT security. The reference architecture incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.
**Secure Private Access** - Gain knowledge about the Citrix Secure Private Access solution including key concepts, use cases, and strategies for implementing this comprehensive security solution for an organization's apps and data.

**Zero Trust Network Access for Contractors and Temp Workers** - This reference architecture explains CompanyA's Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

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**Citrix Service Providers**

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**Citrix Service Provider Content Collaboration Workspace Integration** - The CSP Content Collaboration Service and Workspace integration simplifies the Citrix Cloud reseller management, customer deployment and provides real-time file sync to data in one secure centrally managed platform.

**Citrix Service Provider Virtual Apps and Desktops service** - The CSP Reference Architecture, provides architectural guidance for Citrix Service Providers to utilize the Virtual Apps and Desktops Service, and Citrix Cloud technologies to offer services to customers and subscribers. The Reference Architecture is intended to assist Service Providers scale from a small subscriber base to an extensive user base shared across multiple tenants and multiple geographies, using a single pane of glass.

**Citrix Virtual Apps and Desktops Service - GCP Architecture with the Managed Service for Microsoft Active Directory for CSPs** - Citrix Virtual Apps and Desktops Service Google Cloud Platform (GCP) Architecture with the Managed Service for Microsoft Active Directory for Citrix Service Providers (CSPs) aligns with the use cases described in the CSP Citrix Virtual Apps and Desktops Reference Architecture to provide guidance and design considerations to leverage GCP Managed AD Service.

**Citrix Workspace Integration with nFactor and Multiple IDPs for CSPs** - The Citrix Workspace integration with nFactor and Multiple IDPs for CSPs provides guidance to design and implement authentication with multiple IDPs via Citrix ADC while leveraging the capabilities of Citrix Workspace.

**Virtual Apps and Desktops service with Google Cloud Platform for Citrix Service Providers** - Citrix Virtual Apps and Desktops service implementation with Azure Active Directory Domain Services for CSPs Reference Architecture aligns with the use cases described in the CSP Citrix Virtual Apps and Desktops Reference Architecture to provide guidance and implementation steps to use Azure AD Domain Services.
Citrix Virtual Apps and Desktops

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

App Layering - User Layers - User layers persist user profile settings, data, and user-installed applications in non-persistent VDI environments.

Citrix Desktop-as-a-Service (DaaS) - Learn how Citrix Desktop-as-a-Service (DaaS) offerings enable customers to deploy workloads in the cloud within minutes.

Citrix Value Adds to Azure Virtual Desktop - Learn about how Citrix provides key capabilities to increase flexibility, agility, security, and more to Azure Virtual Desktop, while also driving down costs.

Contact Center Solution - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

Federated Authentication Service - Single Sign-on to Windows-based virtual apps and desktops when using a non-Active Directory based Citrix Workspace identity.

HDX - A set of technologies ensuring an unparalleled user experience when accessing virtual Windows/Linux applications and desktops.

Protect apps and data on bring-your-own devices - See how to support bring-your-own-devices without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.

Protect contractor and temp worker access - See how to support contractors and temp workers without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.

Remote PC Access - Remote PC Access allows users to access their physical, office-based Windows PC from remote locations.

Virtual Apps and Desktops Service - Citrix Virtual Apps and Desktops Service provides a fast, low-impact deployment option for on-premises/cloud-hosted, Windows/Linux, desktops/apps.

Workspace Environment Management - Workspace Environment Management monitors and analyzes user and application behavior in real time, then intelligently adjusts system resources to improve the user experience.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.
**Autoscale** - Explore the various ways Citrix enables admins to save on cost when hosting workloads in the cloud. Learn about different load balancing algorithms and scaling methodologies and how much they can save in an environment based on our tests.

**Citrix Cloud Resiliency** - Learn how Citrix Cloud services are architected and built for resiliency. Understand how Service Continuity features enable users to connect to the resources that are accessible even if some or all of the cloud services are unreachable.

**Citrix Virtual Apps and Desktops service** - Learn how Citrix Virtual Apps and Desktop service enables you to deliver virtual apps and desktops to your end users, while offloading the management plane to Citrix Cloud ensuring your environment is always up to date.

**Enhancing Azure Virtual Desktop** - Learn about the value add Citrix provides to your Azure Virtual Desktop environment running in Microsoft Azure. Citrix Virtual Apps and Desktops service provides a cloud-based management, provisioning, and capacity management solution for delivering virtual apps and desktops to any device. See how cost savings can be achieved while delivering a superlative user experience and enhancing the security posture of our deployment.

**Local Host Cache / High Availability mode for Citrix Virtual Apps and Desktops Service** - Inside view on how Local Host Cache (LHC) works with Citrix Virtual Apps and Desktops Service. Learn how the different components of LHC come into play to keep you in control of your uptimes.

**Workspace Environment Management** - Learn how Workspace Environment Management uses intelligent resource management and Profile Management technologies to deliver the best possible performance, desktop logon, and application response times for Citrix Virtual Apps and Desktops sessions, as well as enhances the security of the deployment.

**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**Automated Configuration Tool** - Learn how to use the Automated Configuration tool to automate moving your Citrix Virtual Apps and Desktops configuration to your Citrix Virtual Apps and Desktops Service deployment, as well as moving your configuration between Citrix Virtual Apps and Desktops Service deployments.

**Citrix Virtual Apps and Desktops with Azure Virtual Desktop Hybrid** - Learn how to deliver Azure Virtual Desktop (AVD) based desktops and apps and on-premises resources to your users in a single place. Manage both the AVD environment in Azure and your on-premises environment from a single place in Citrix Cloud with Citrix Virtual Apps and Desktops service.

**Citrix Workspace App for Microsoft Teams** - Learn how to enable the Citrix Workspace App for Microsoft Teams to enable your users to easily access their Citrix ShareFile documents and share them within Teams.
Getting Started with Citrix Virtual Apps and Desktop Service - Learn how to get started with Citrix Virtual Apps and Desktop Service to deliver virtual apps and desktops to your end users while having the management plane hosted on Citrix Cloud.

Microsoft Azure Active Directory Federated Authentication for Citrix Virtual Apps and Desktops with Citrix ADC - Learn how to use Microsoft Azure Active Directory as an identity provider for Citrix Virtual Apps and Desktops with Citrix ADC using SAML.

Microsoft Teams optimization in Citrix Virtual Apps and Desktops environments - Learn how to deliver the Citrix HDX Optimization for Microsoft Teams in a Citrix environment. The optimization offers clear, crisp high-definition video calls, audio-video or audio-only calls to and from other Teams users, optimized Teams users and other standards-based video desktop and conference room systems. Support for screen sharing is also available.

Remote PC Access with Citrix Virtual Desktops service - Learn how to remotely connect your users working from home to their physical PCs in the office. Quickly connect your on-premises physical machines to Citrix Cloud with Citrix Virtual Desktops service and allow remote access from anywhere and on any device.

Learn - Diagrams and Posters

Virtual Apps and Desktops On-prem - Conceptual architecture drawing for Citrix Virtual Apps and Desktop on-premises deployment.

Virtual Apps and Desktops Service - Conceptual architecture drawing for Citrix Virtual Apps and Desktop deployment in Citrix Cloud.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

App Layering - Gain a deep understanding of the Citrix Layering technology that simplifies the image management for VDI and hosted-shared environments including use cases and technical concepts.

Citrix SD-WAN HDX performance improvements for Citrix Virtual Apps and Desktops cloud environments - Learn how to optimize the delivery of the Citrix Virtual Apps and Desktops service from cloud Resource Locations to users at branches or home offices, with a Citrix SD-WAN appliance, by minimizing latency, and improving session responsiveness during network issues.

Citrix SD-WAN HDX performance improvements for Citrix Virtual Apps and Desktops on-premises environments - Learn how to optimize the delivery of Citrix Virtual Apps and Desktops from on-premises servers to users at locations with a Citrix SD-WAN appliance by minimizing latency and improving session responsiveness during network issues.
**DaaS for Contact Centers Reference Architectures** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Image Management** - Gain an understanding of Machine Creation Services (MCS) and Citrix Provisioning (PVS) offerings for building, delivering, and maintaining virtual machine images in your environment.

**Measuring HDX User Experience Performance Improvements with Citrix SD-WAN** - Citrix SD-WAN can significantly improve the network performance of Citrix Virtual Apps and Desktops HDX sessions. Learn about the reference architecture we used to measure quantitative benefits.

**Optimizing Unified Communications Solutions** - Learn how to optimize the voice, video, and other capabilities of unified communication solutions in virtualized Citrix environments.

**Reference Architecture - Protect apps and data on bring-your-own devices** - Learn how to design an environment to support bring-your-own-devices without compromising IT security. The reference architecture incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.

**Remote PC Access** - Discover the use cases and learn about the detailed architecture of the Citrix Remote PC Access solution with the layered approach for on-premises and Citrix Cloud deployments.

**ServiceNow with Citrix Virtual Apps and Desktops** - Learn how to integrate ServiceNow within your Citrix Virtual Apps and Desktops environment including key technical concepts and use cases.

**Virtual Apps and Desktops Service** - Learn the architecture and deployment considerations for this cloud-based service of secure app and desktop delivery.

**Virtual Apps and Desktops Service - AWS** - Learn the architecture and deployment considerations of Citrix Virtual Apps and Desktops on an Amazon Web Services cloud platform.

**Virtual Apps and Desktops Service - Azure** - Learn the detailed architecture and deployment model of Citrix Virtual Apps and Desktops on Microsoft Azure with five key architectural principles.

**Workspace Environment Management Service** - Learn about the architecture and deployment considerations for this cloud-based service of Workspace Environment Management.

**Zero Trust Network Access for Contractors and Temp Workers** - This reference architecture explains CompanyA’s Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.
Design - Design Decisions

Design decisions help you guide through the decision process to configure, optimize, and deploy your solution in its best way.

**Autoscale Design** - Helps answer FAQs on Autoscale to achieve best cost optimization. Provides guidance for configuring Autoscale for different admin use cases and their infrastructure and technical requirements.

**Baseline Policy Design** - Policies provide the basis to configure and fine-tune Citrix Virtual Apps and Desktops environments, allowing organizations to control connection, security, and bandwidth settings based on various combinations of users, devices, or connection types. Learn about the different decisions related to the baseline policy design.

**Baseline Printing Design** - Citrix Virtual Apps and Desktops supports various printing solutions. It is essential to understand the available technologies and their benefits and limitations to plan and successfully implement the proper printing solution.

**Citrix Profile Management with Azure Files** - The article covers guidance and best practices for using Citrix Profile Management to manage user profiles on Azure Files as the back-end storage location.

**Delivery Model Comparison** - A Citrix Virtual Apps and Desktops solution can take on many delivery forms. The organization's business objectives help select the right approach as the different models impact the local IT team's management scope. Learn how Citrix Virtual Apps and Desktops management scope changes based on using a locally managed deployment, a cloud service deployment and a cloud managed deployment.

**Designing StoreFront and Gateway Integration** - Learn about the different integration decisions involved when integrating StoreFront with Citrix Gateway for secure remote access.

**Designing StoreFront and Multi-Site Aggregation** - Learn about the different decisions involved when aggregating and de-duplicating applications and desktops from multiple sites.

**Disaster Recovery Planning** - Learn more about different decision factors and recommendations for business continuity and disaster recovery planning.

**HDX Graphics Overview** - To meet different user requirements, the Citrix HDX protocol allows for different graphics modes to be configured. Learn about the different HDX modes and how they are configured.

**Provisioning Model for Image Management** - Learn about the different decision factors involved in choosing the right provisioning model for image management. Learn more about Citrix Provisioning and Machine Creation Services solutions.

**Remote PC Access** - Remote PC Access is easy to deploy. These design decisions help maintain security, availability, and performance.
**Single Server Scalability** - Learn about the magic formula to calculate how many users you can have on a single server, what are the different variables that have an impact on scalability and recommendations to improve it.

**The scalability and economics of delivering Citrix Virtual App and Desktop services on Azure** - Learn about the different Azure instance type scale characteristics and how MSC I/O enhances the response time for your users. The document guides you through choosing the ideal Azure instance type for your workload and touches upon cost per user.

**VDI Model Comparison** - Selecting the best VDI model starts with properly defining user groups and aligning the requirements with the capabilities of the VDI models. Learn how different factors play a role in selecting the correct VDI model for a user group.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

**Deploying Azure Files for Citrix Profile Management and Citrix User personalization layers** - Learn how to deploy Azure Files for use with Citrix User personalization layers and Citrix Profile Management.

**Microsoft 365 with Citrix Virtual Apps and Desktops** - Learn how to deploy Microsoft 365 in a Citrix Virtual Apps and Desktops environment.

**Migrating Citrix Virtual Apps and Desktops from on-premises to Citrix Cloud** - Learn how to migrate your on-premises Citrix Virtual Apps and Desktops (CVAD) environment to CVAD service on Citrix Cloud using the Automated Configuration tool.

**Migrating Citrix Virtual Apps and Desktops from VMware vSphere to Citrix Virtual Apps and Desktops service on Microsoft Azure** - Learn how to migrate your on-premises Citrix Virtual Apps and Desktops to Citrix Cloud and your on-premises VMware vSphere to Microsoft Azure.


**Build - Tech Papers**

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

**Deploying Google Chrome** - Tech Paper focused on installation, configuration, and various optimizations for Google Chrome browser running on Citrix Virtual Apps and Desktops.

**Security best practices for Citrix Virtual Apps and Desktops** - Tech paper focused on security recommendations and security practices for administrators. Use this guide to navigate security planning, implementation, and ongoing operation.
Citrix Tech Zone

Citrix Virtual Apps and Desktops Standard for Azure

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Citrix Desktop-as-a-Service (DaaS) - Learn how Citrix Desktop-as-a-Service (DaaS) offerings enable customers to deploy workloads in the cloud within minutes.

Citrix Value Adds to Azure Virtual Desktop - Learn about how Citrix provides key capabilities to increase flexibility, agility, security, and more to Azure Virtual Desktop, while also driving down costs.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Citrix Virtual Apps and Desktops Standard for Azure - Delivers Windows apps and desktops from Microsoft Azure based on Azure Virtual Desktop. Citrix Virtual Apps and Desktops Standard for Azure offers cloud-based management, provisioning, and managed capacity for delivering virtual apps and desktops to any device.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Citrix Virtual Apps and Desktops Standard for Azure - Learn about cloud-based Desktop-as-a-Service offering from Citrix including key technical concepts, networking, and use cases for different verticals.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Citrix Workspace

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Authentication - Citrix Gateway - Utilize an on-premises Citrix Gateway as an identity provider for Citrix Workspace.

Authentication - Okta - Utilize Okta as the user’s primary identity for Citrix Workspace.

© 1999–2022 Citrix Systems, Inc. All rights reserved.
Authentication - Push - Extend an on-premises TOTP deployment with Push authentication, eliminating the need for users to manually enter the temporary token.

Authentication - SAML - Utilize a SAML provider as the user’s primary identity for Citrix Workspace

Authentication - TOTP - Time-based One-Time Password (TOTP) provides multifactor authentication to the user’s Workspace experience.

Citrix Value Adds to Azure Virtual Desktop - Learn about how Citrix provides key capabilities to increase flexibility, agility, security, and more to Azure Virtual Desktop, while also driving down costs.

Contact Center Solution - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

Microapps - Increase productivity by adding microapps to Citrix Workspace. Microapps allow users to view information and perform actions without launching the full application.

Microapps Custom Integrations - Create custom integrations with the microapp builder through the HTTP connector.

Service Continuity - Helps ensure that end-users are still able to launch their virtual apps and desktops, even when cloud services are down.

Site Aggregation - Hybrid deployment that allows your on-premises Citrix Virtual Apps & Desktops environments to be part of Citrix Workspace.

VPN-Less Access to Web, Windows and Linux Resources - Learn how users can access internal web apps, Windows/Linux apps and Windows/Linux desktops without a VPN.

Workspace app - Personalized interface to provide access to all assigned SaaS apps, web apps, virtual Windows apps, virtual Linux apps, desktops, and data.

Zero Trust Strategy for Mergers and Acquisitions - See how Citrix Workspace can help create a zero trust strategy for mergers and acquisitions through the use of Citrix Application Delivery Controller, Citrix Virtual Apps and Desktops Service, Citrix Secure Private Access, and Citrix Analytics for Security.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Citrix Workspace - End users should be able to work where, when, and how they want. Citrix Workspace has everything you need to keep people productive and data secure.

Workspace app - Personalized interface that provides access to all assigned SaaS apps, web apps, virtual Windows apps, virtual Linux apps, desktops, and data.

Workspace Identity - Learn how Citrix Workspace utilizes a secure primary identity to broker authorization to SaaS, web, mobile and virtual apps.
**Workspace Microapps** - Streamline functionality from complex enterprise applications creating simple actions users can complete right within their feed.

**Workspace Single Sign-On** - Learn how Citrix Workspace provides single sign-on capabilities to SaaS apps, web apps, mobile apps, Windows virtual apps and Windows virtual desktops. In addition, learn how Workspace single sign-on can support IdP chaining configurations.

**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**Citrix Workspace App for Microsoft Teams** - Learn how to enable the Citrix Workspace App for Microsoft Teams to enable your users to easily access their Citrix ShareFile documents and share them within Teams.

**Proof of Concept Guide** - Use App Builder to roll out Citrix Podio-backed Broadcast and FAQ microapp templates to Citrix Workspace - Learn how to get started with Citrix App Builder and deploy Podio-backed Integrations to Workspace

**Learn - Diagrams and Posters**

**Citrix Workspace** - Conceptual architecture drawing for Citrix Workspace.

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**DaaS for Contact Centers Reference Architectures** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Flexible Work** - Learn how to design an environment to support a flexible work style without compromising IT security. The reference architecture incorporates Secure Internet Access, Secure Private Access, Virtual Apps and Desktops, SD-WAN, Endpoint Management and Security Analytics.

**Mergers and Acquisitions** - Learn how to design an environment to support a mergers and acquisition strategy without compromising IT security. The reference architecture incorporates Citrix Workspace,
Secure Private Access, Virtual Apps and Desktops, Application Delivery Controller, Federated Authentication Service and Security Analytics.

**Microapps Service with Citrix Workspace** - Learn about the microapps platform service, which brings intelligent features to Citrix Workspace. Component architecture, use cases, and integration strategies for implementing a comprehensive solution are covered.

**Workspace app** - Discover the technical aspects of Citrix’s vision for the secure, modern digital workspace through the Citrix Workspace app - accessible on all your devices.

**Zero Trust Network Access for Contractors and Temp Workers** - This reference architecture explains CompanyA’s Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

**Build - Tech Papers**

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

**Citrix Workspace app quick start guide** - Quick start guide for Citrix Workspace app - everything you need to know in one place, including installation, configuration, and optimizations.

**Security**

**Learn - Tech Insights**

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

**Citrix Value Adds to Azure Virtual Desktop** - Learn about how Citrix provides key capabilities to increase flexibility, agility, security, and more to Azure Virtual Desktop, while also driving down costs.

**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

**App protection** - App protection policies protect application data from attacks based on keyloggers and screen capture tools. Allow companies to embrace BYOD, and extend resources to remote workers, contractors, and gig economy workers.

**Zero Trust** - Zero Trust is the most important End User Computing movement since Mobile and Cloud. The Citrix Zero Trust Architecture enables the “any-any-any” vision that Citrix has been espousing for years and is secured by access policies that take trust into context.
Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

App protection policies - Learn how to enhance the security of your endpoints with App protection policies as part of Citrix Virtual Apps and Desktops deployment. Protect your users with anti-keylogging and anti screen capture functionality.

URL Redirection with Secure Browser and Citrix ADC in Azure - Learn how to provide the dynamic delivery of resources by redirecting browsing to a Secure Browser service protecting the company network without sacrificing user experience.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Architectural Considerations for the General Data Protection Regulation - GDPR - Learn how Citrix solutions enable organizations to meet the European GDPR data privacy laws while also meeting business objectives.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Federated Authentication Service - Learn about Federated Authentication Service, authentication delegation and how to use seamless web authentication methods to log in to Windows environments for both Citrix Cloud and on-premises deployments.

Build - Tech Papers

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.


Networking SSL / TLS Best Practices - Tech Paper focused on SSL / TLS best practices for Citrix Networking deployments. We cover configuration items such as the certificate chain bound to the virtual server, cipher suite settings, and disabling older protocols that are vulnerable to attack.
Google Cloud Platform

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Contact Center Solution - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

Google Cloud Platform (GCP) Shared VPC Support with Citrix Virtual Apps and Desktops - Learn how to use Machine Creation Services (MCS) to provision machines in a Shared VPC on Google Cloud Platform (GCP). Then, learn to manage the machines using Citrix Studio.

Google Cloud Platform (GCP) Windows 10 Sole Tenant with Optional Shared VPC Catalog Creation - Learn to deploy provisioned Windows 10 catalogs to GCP Sole Tenant nodes in Citrix Virtual Apps and Desktop Service.

Google Cloud Platform (GCP) Zone Selection Support with Citrix Virtual Apps and Desktops service - Learn how to configure zone selection on Google Cloud Platform to enable sole tenancy in Citrix Virtual Apps and Desktop Service.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Citrix virtualization on Google Cloud - Learn the architecture and deployment considerations for Citrix solutions on Google Cloud Platform.

Third Party Content

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Third Party - View reference architectures created by our industry partners on joint technical solutions.
Citrix Tech Zone

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

**Third Party** - View deployment guides created by our industry partners on joint technical solutions.

**Other**

**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

**Business Continuity** - Business continuity events can have a regional or global impact. Learn about the different ways Citrix allows users to remain productive when making it to the office is not possible.

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Design - Design Decisions**

Design decisions helps you guide through the decision process to configure, optimize, and deploy your solution in its best way.

**Evaluating Application Delivery Methods** - Learn about the different decision factors involved in choosing the optimal application delivery method.

**Build - Tech Papers**

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

**Communication Ports Used by Citrix Technologies** - Overview of ports that are used by Citrix components and must be considered as part of networking architecture.
Articles: Citrix Analytics

September 29, 2021

List of articles related to Citrix Analytics.

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Performance Analytics - Gain visibility into your environment through user-centric experience scores, application & infrastructure performance scores with Performance Analytics.

Security Analytics - Generate actionable insights about your environment, enabling administrators to proactively handle user and application security threats.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Analytics - Provide visibility into your environment to protect it from malicious users and to improve the end user experience proactively.

Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.


Proof of Concept-Performance Analytics - Learn how to get started with Citrix Analytics for Performance.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Citrix Analytics - Learn about analytics services offered by Citrix Cloud including security analytics, performance analytics, and integration with other Citrix portfolio products.

DaaS for Contact Centers Reference Architectures - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates
Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Zero Trust Network Access for Contractors and Temp Workers** - This reference architecture explains CompanyA's Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

### Articles: Citrix Content Collaboration

**October 28, 2021**

List of articles related to Citrix Content Collaboration.

**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**Citrix Workspace App for Microsoft Teams** - Learn how to enable the Citrix Workspace App for Microsoft Teams to enable your users to easily access their Citrix ShareFile documents and share them within Teams.

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**Content Collaboration with on-premises storage zones** - Learn about the architecture and design considerations for deploying an on-premises customer-managed storage zone to provide the best user experience and security for Citrix Content Collaboration.

**Content Collaboration with storage zones on Azure IaaS** - Learn about the architecture and design considerations for deploying a customer-managed storage zone in Azure to provide the best user experience and security for Citrix Content Collaboration.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.
Citrix Tech Zone

Citrix Files with Citrix Virtual Apps and Desktops Service - Learn how to deploy the Citrix Files Client for Windows in a virtual app and desktop environment. This article includes related components, tips, and leading practices for optimal performance and management.

Articles: Citrix Endpoint Management

October 28, 2021
List of articles related to Citrix Endpoint Management.

Learn - Tech Insights
Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Contact Center Solution - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

Google Chrome OS Management - Manage Chrome OS devices with Citrix Endpoint Management.

MDX Containers for iOS - Citrix Endpoint Management MDX containers protect mobile apps and control their access to device resources through policy mitigating the risk of unwanted enterprise data loss.

Micro VPN - On-demand, per-app VPN that gives access to a specific app back end resource without the risk of opening a full tunnel to your data center.

Mobile SSO - Single sign-on to native mobile applications via Citrix Gateway.

Learn - Tech Briefs
Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Citrix Endpoint Management - Learn about Unified Endpoint Management and let employees work how, when and where they want with the power to manage every app, device and platform in one central location.

Mobile SSO - Native mobile app single sign-on for iOS and Android SaaS applications.

Design - Reference Architectures
Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.
Citrix Endpoint Management with Microsoft EMS/Intune and Android Enterprise Integration - Learn about the architecture and integration with Microsoft EMS/Intune and Android Enterprise to deliver applications securely to any device and how it enables security and productivity benefits for both Microsoft EMS/Intune and Citrix customers.

DaaS for Contact Centers Reference Architectures - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

Migration from Android Device Administrator to Android Enterprise with Citrix Endpoint Management - Learn how to migrate your Citrix Endpoint Management policies and apps step by step. Take your Endpoint Management from a legacy Android Device Administrator deployment to Android Enterprise by using a managed Google Play account.

**Articles: Citrix Networking**

December 1, 2021

List of articles related to Citrix Networking.

**Learn - Tech Insights**

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

**AlwaysOn VPN** - Manage remote domain joined Windows endpoints 24x7 by providing LAN-like access with AlwaysOn VPN.

**Citrix Web App and API Protection service overview** - See how Citrix Web App and API Protection (CWAAP) service can provide effective security against BOTs, DDoS, zero-day exploits, and other attacks.

**Microservices-Based Application Delivery with Citrix and Red Hat OpenShift - Reference Architecture overview** - See how Microservices-Based Application Delivery with Citrix and Red Hat OpenShift can provide reliable, and scalable delivery of Microservices.
Microsoft Teams Optimization - Learn how Citrix Virtual Apps and Desktops, along with Citrix SD-WAN, can optimize Microsoft Teams and provide a great user experience.

Office 365 Optimization for Branch Offices - Learn how Citrix SD-WAN implements Microsoft Connectivity Principles to support Office 365 Optimization for Branch Offices.

SD-WAN - Optimize delivery of Citrix Virtual Apps and Desktops traffic with Citrix SD-WAN.

YouTube Optimization for Branch Offices - Optimize YouTube delivery in branch offices with Citrix Virtual Apps and Desktops and Citrix SD-WAN.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Citrix Gateway and Citrix Virtual Apps and Desktops - Learn why Citrix Gateway is the best secure remote access solution for Citrix Virtual Apps and Desktops.

Citrix Web App and API Protection service - With cyber threats rising and modern application architectures getting more complex, organizations need a more straightforward way to defend against bots, DDoS, zero-day exploits, and other attacks. Learn how Citrix Web App and API Protection (CWAAP) service can provide effective security against these attacks.

Gateway service for HDX Proxy - Provides users with secure remote access to Citrix Virtual Apps and Desktops without having to deploy Citrix Gateway in the on-premises DMZ or reconfigure firewalls.

Multifactor Authentication with Citrix nFactor - Learn how you can implement various Multifactor Authentication methods with Citrix ADC nFactor Authentication.

SD-WAN Cloud Direct service - Optimize SaaS access for branch users by tunneling session traffic to Internet Exchanges with direct connectivity to popular sites.

SD-WAN Deployment Scenarios - Learn about different scenarios to optimize user experience with Citrix Workspace by deploying Citrix SD-WAN.


SD-WAN for Home Offices - Learn how to work from home with secure, enhanced, and resilient connectivity using the Citrix SD-WAN 110 appliance.

SD-WAN for Workspace - Provides optimal network connectivity between Enterprise branch offices and their Workspace hosted in data resource locations on-premises or in the cloud.
Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

nFactor for Citrix Gateway Authentication with Device Certificate - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Device Certificates.

nFactor for Citrix Gateway Authentication with Email OTP - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with email one-time password.

nFactor for Citrix Gateway Authentication with Group Extraction - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Group Extraction.

nFactor for Citrix Gateway Authentication with Native OTP - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Native OTP.

nFactor for Citrix Gateway Authentication with Push Token - Learn how to implement a Proof of Concept environment consisting of nFactor for Citrix Gateway Authentication with Push Token.

Protecting Gateway Virtual Servers with WAF, Bot, and Advanced Authentication Policies - Learn how to use the security tools built into the Citrix ADC to protect VPN and Gateway virtual servers, including Web Application Firewall (WAF), Bot Security, and Advanced Authentication Policies.

SD-WAN Cloud-to-Data Center Connectivity - Learn how to implement Citrix SD-WAN rapidly to provide secure, enhanced, and resilient connectivity between your public cloud and data center environments.

SD-WAN for Home Offices - Learn how to implement a POC of the Citrix SD-WAN 110 appliance to demonstrate how to work from home with secure, enhanced, and resilient connectivity.

Web Application Firewall Deployment - Learn how to deploy Citrix Web Application Firewall (WAF) standalone or as a part of a Citrix ADC deployment. Protect web servers or applications from various attacks including Cross Site Scripting, SQL Injection, Buffer Overflow, Forceful Browsing and more. Deploy in any public cloud or your on-premises environment.

Learn - Diagrams and Posters

Citrix ADC - File System and Process Cheat Sheet - One-page summary of most common system directories, files, processes/daemons and logs.

Citrix ADC - nFactor Basics Cheat Sheet - One-page summary of nFactor authentication detailing concepts, how it works, nFactor Visualizer information, configuration steps, and more.

Citrix ADC - nsconmsg Commands Cheat Sheet - One-page summary of nsconmsg syntax and troubleshooting tips.
Citrix Tech Zone

Citrix ADC - SDX Basics and Log File Cheat Sheet - One-page summary of SDX components and how to access them, common SVM ports, LOM configuration, Link Aggregation on the SDX, and Common Log files for both SVM and Citrix Hypervisor.

Citrix ADC - Troubleshooting GSLB MEP Cheat Sheet - One-page summary of GSLB, MEP protocol and troubleshooting tips.

Citrix ADC - Troubleshooting High Availability Cheat Sheet - One-page summary of high availability and troubleshooting tips.

Citrix ADM - Overview Cheat Sheet - One-page summary of the ADM Platform detailing system requirements, deployment modes, protocols and ports, common log files, common issues/failures, and more.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Application Delivery Controller - Global Server Load Balancing - Learn the architecture and deployment considerations for Global Server Load Balancing configuration with Citrix Application Delivery Controller.

Application Delivery Management - See how the Citrix Application Delivery Management software is deployed to simplify management and monitoring of your application delivery infrastructure.

DaaS for Contact Centers Reference Architectures - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Microservices-Based Application Delivery with Citrix and Red Hat OpenShift - Learn how to design an environment to support cloud-native microservices with Citrix and Red Hat OpenShift

SD-WAN - Learn about the framework, design, and architecture for Citrix SD-WAN with SD-WAN Orchestrator for single region deployment.

SD-WAN for Content Collaboration - Learn about the deployment architecture and how Citrix SD-WAN WANOP helps to optimize Citrix Content Collaboration for customer-managed storage zones including relevant test data.

SD-WAN Multi-Region - Discover the framework, design, and architecture for Citrix SD-WAN multi-region deployment with SD-WAN Orchestrator.
Zero Trust Network Access for Contractors and Temp Workers - This reference architecture explains CompanyA's Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

**Design - Design Decisions**

Design decisions helps you guide through the decision process to configure, optimize, and deploy your solution in its best way.

**Citrix SD-WAN for Home Offices** - Understand the design decisions required to implement the Citrix SD-WAN 110 in a Home Office to provide secure, enhanced, and resilient connectivity.

**Build - Deployment Guides**

Deployment guides provide step-by-step instruction on how to perform key tasks around the installation and configuration of real-world Citrix solutions.

**Citrix SD-WAN with Azure Virtual WAN** - Learn how to establish connectivity between SD-WAN and Azure Virtual WAN, and connect workloads on Azure with on-premises infrastructure.

**Migrating Citrix ADM to Citrix ADM service** - Learn how to migrate your on-premises Citrix ADM (Application Delivery Management) to Citrix Cloud.

**Configure MFA for on-premises Gateway** - Learn how to configure your on-premises Citrix Gateway deployment to use LDAP and RADIUS for Multi Factor Authentication.

**Build - Tech Papers**

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

**Best practices for Citrix ADC Deployments** - Tech Paper focused on the steps that a Citrix ADC administrator should follow to deploy a new ADC instance with best practice settings.

**Articles: Citrix Secure Internet Access**

October 28, 2021

List of articles related to Citrix Secure Internet Access.
**Learn - Tech Insights**

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

**Contact Center Solution** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

**Protect apps and data on bring-your-own devices** - See how to support bring-your-own-devices without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.

**Protect contractor and temp worker access** - See how to support contractors and temp workers without compromising IT security. The Tech Insight video incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops.

**Secure Internet Access User Experience** - Secure access to all applications, anywhere, from any device with unified security management without compromising the employee experience.

**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

**Citrix Secure Internet Access** - The expansive demand for remote work and the shift of applications to the cloud has made it an absolute must for enterprises to secure user Internet access. Citrix Secure Internet Access (CSIA) shifts the focus from defending perimeters to following users to ensure Internet access is secure regardless of location.

**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**Citrix Secure Internet Access with Citrix SD-WAN** - Learn how to set up Citrix Secure Internet Access in conjunction with Citrix SD-WAN to provide secure access to SaaS and Web applications anywhere, reliably and securely.

**Citrix Secure Internet Access with Citrix Secure Private Access** - Learn how to set up Citrix Secure Internet Access in conjunction with Citrix Secure Private Access to provide secure access to SaaS and web applications, anywhere, from any device.

**Citrix Secure Internet Access with Citrix Virtual Apps and Desktops** - Learn how to set up Citrix Secure Internet Access within a Citrix Virtual Apps and Desktops environment that provides secure access to virtual desktops and applications, anywhere, from any device.
Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

DaaS for Contact Centers Reference Architectures - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Reference Architecture - Protect apps and data on bring-your-own devices - Learn how to design an environment to support bring-your-own-devices without compromising IT security. The reference architecture incorporates Secure Internet Access, Secure Private Access, Web App Firewall and Virtual Apps and Desktops

Zero Trust Network Access for Contractors and Temp Workers - This reference architecture explains CompanyA's Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

Citrix Secure Private Access

March 30, 2022

Overview

Welcome to the section of the Tech Zone focused on Citrix Secure Private Access.

Within the following subsections, you can learn about how Secure Private Access provides Zero Trust Network Access (ZTNA) to private web apps and SaaS Apps, see the different capabilities, and learn how organizations integrate the solution within their environment.
Intro to Citrix Secure Private Access

March 31, 2022

Overview

If you are new to Citrix Secure Private Access, take a moment to learn more about the solution with the following materials.

Product Overview

Citrix Secure Private Access provides the Zero Trust Network Access (ZTNA) to private web apps within your data center and private cloud. With adaptive authentication, adaptive access, and single sign-on to IT sanctioned applications, organizations can meet modern security standards without compromising employee productivity.

Links

Intro Video: Citrix Secure Private Access - Product Overview

User Experience

The Citrix Secure Private Access service provides Zero Trust Network Access (ZTNA) to web apps and client/server apps hosted privately behind firewalls within the data center or public cloud. With contextual authentication policies, users establish a VPN-less connection to the private application. Adaptive access policies provides different levels of application access based on the user’s device posture, risk score, geographical location, and more.
Secure Private Access provides instant, Single-Sign On (SSO) access to SaaS and web applications, adaptive authentication, adaptive access security policies, keylogger\screen scraper protections, and web browser isolation.

Getting Started with Citrix Secure Private Access

March 31, 2022

Overview

With an understanding of Citrix Secure Private Access, the next step is to get started with a few basic concepts and proof of concept guides.

Adaptive Security to SaaS Apps

Learn how to use Citrix Secure Private Access to provide single sign-on and adaptive security to SaaS apps.

Follow the Guide: SSO and Adaptive Security to SaaS apps
ZTNA to Private Web Apps (Agent-less)

With remote work, users need access to internal, private web-based applications. Providing a better experience means avoiding a VPN deployment model. To improve the overall user experience, organizations must be able to unify all sanctioned apps, simplify user login operations while still enforcing authentication standards.

Links
Follow the Guide: ZTNA to Private Web App (Agent-less)

ZTNA to Client-Server Apps (Agent-Based)

With remote work, users also need access to internal servers using dedicated client applications. With Citrix Secure Private Access, organizations may still access their Client-Server applications remotely, alongside all other sanctioned web apps, to simplify user login operations, and still enforce authentication standards.

Links
Follow the Guide: ZTNA to Client-Server Apps (Agent-Based)

Feature Videos for Citrix Secure Private Access

March 30, 2022

Overview

The following is a list of capabilities for Citrix Secure Private Access. These short demonstrations provide examples of how the features impact the overall solution. Use these videos to gain deeper insights into the full range of capabilities within Citrix Secure Private Access.

Links
View demo: End User Experience Overview
Adaptive Security

Security policies must adapt to the user, device, resource, and overall risk. Secure Private Access incorporates multiple adaptive security policies to provide better alignment of app restrictions to the current user scenario. When these capabilities work together, single Sign-On helps reduce weak passwords by enabling organizations to apply consistent adaptive authentication policies across any SaaS and private web applications.

Application Access

Users need access to private web apps, private client/server apps (TCP/UDP), and SaaS apps. Citrix Secure Private Access provides a Zero Trust Network Access (ZTNA) solution to these resources, as demonstrated in the following videos.

Enhanced Security Policies

With enhanced security policies, organizations can use adaptive access policies to better protect users, applications and data from data exfiltration, malware, and accidental dissemination.
Enterprise Browsers

Providing Zero Trust Network Access (ZTNA) to private web apps requires different levels of browser-based security. With Citrix Secure Private Access, the following browser options are available to provide better security.

Links

View demo: Isolated Browser
View demo: Mobile Web Viewer for Workspace app
View demo: Workspace Browser

User and Entity Behavior Analytics (UEBA)

By understanding typical user behaviors, organizations are better able to detect and mitigate threats when devices or user identities are compromised. Deviations in user behavior can signal growing threats that can be blocked through Citrix Analytics for Security.

Links

View demo: Identity Risk User Behavior

ZTNA vs VPN

Many organizations rely on VPN solutions to provide users with access to private web and client/server apps. With a Zero Trust Network Access solution, the user receives a better experience with better security.

Links

View demo: ZTNA vs VPN - Logon Experience
View demo: ZTNA vs VPN - Port Scanning

Reference Architectures for Citrix Secure Private Access

February 9, 2022
Overview

A solution like Citrix Secure Private Access is applicable for many different scenarios. Many of the capabilities can easily solve an organization’s requirements. The following reference architectures provides insights into how organizations used Citrix Secure Private Access.

Flexible and Hybrid Work

For years, CompanyA supported remote work for a small percentage of the overall user population. To hire the best people from any geography, CompanyA is investigating expanding remote work to be a company wide policy. This policy not only opens up the pool of potential employee candidates, but also provides current employees with better work/life flexibility.

This reference architecture explains how CompanyA is planning their solution to support a flexible work style without compromising IT security.

Links

Read more: Flexible and Hybrid Work

Protect Apps and Data on BYO Devices

End users, who are part of a hybrid and distributed workforce, use bring-your-own (BYO) devices to access internal and cloud resources. The company wants to implement a company-wide Zero Trust Network Access (ZTNA) solution to protect its resources.

Links

Read more: Protect apps and data on bring-your-own devices

View demo: Protect apps and data on bring-your-own devices

ZTNA for Contractors and Temp Workers

CompanyA is complementing its full-time staff with contractors and temp workers. Using Citrix, the company has realized several productivity benefits as contractors and temp workers can get on-boarded quickly and beginning work on business projects with minimal set up time. Also, since the company’s contractors and temp workers are typically mobile, they use Citrix to access resources from anywhere, at any time, and from any device.
Zero Trust Strategy for Mergers & Acquisitions

Learn how to design an environment to support a mergers and acquisition strategy without compromising IT security. The reference architecture incorporates Citrix Workspace, Secure Private Access, Virtual Apps and Desktops, Application Delivery Controller, Federated Authentication Service and Security Analytics.

Advanced Concepts for Citrix Secure Private Access

March 29, 2022

Overview

Citrix Secure Private Access allows organizations to integrate with other solutions. The following content provides insights into how these things can be accomplished.

Proof of Concept Guide: Enhanced Security to Azure-managed SaaS Apps

Learn how to set up a Citrix Secure Private Access environment that provides enhanced security to Microsoft Azure SaaS Apps.
Proof of Concept Guide: Enhanced Security to Office 365

Learn how to set up a Citrix Secure Private Access environment that provides single sign-on and enhanced security to Office 365.

Proof of Concept Guide: Enhanced Security to Okta Apps

Learn how to set up a Citrix Secure Private Access environment that is able to use Okta as the single sign-on provider for SaaS applications.

Articles: Citrix Service Providers

August 12, 2021

List of articles related to Citrix Service Providers.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Citrix Service Provider Content Collaboration Workspace Integration - The CSP Content Collaboration Service and Workspace integration simplifies the Citrix Cloud reseller management, customer deploy-
Citrix Tech Zone

ment and provides real-time file sync to data in one secure centrally managed platform.

**Citrix Service Provider Virtual Apps and Desktops service** - The CSP Reference Architecture, provides architectural guidance for Citrix Service Providers to utilize the Virtual Apps and Desktops Service, and Citrix Cloud technologies to offer services to customers and subscribers. The Reference Architecture is intended to assist Service Providers scale from a small subscriber base to an extensive user base shared across multiple tenants and multiple geographies, using a single pane of glass.

**Citrix Virtual Apps and Desktops Service - GCP Architecture with the Managed Service for Microsoft Active Directory for CSPs** - Citrix Virtual Apps and Desktops Service Google Cloud Platform (GCP) Architecture with the Managed Service for Microsoft Active Directory for Citrix Service Providers (CSPs) aligns with the use cases described in the CSP Citrix Virtual Apps and Desktops Reference Architecture to provide guidance and design considerations to leverage GCP Managed AD Service.

**Citrix Workspace Integration with nFactor and Multiple IDPs for CSPs** - The Citrix Workspace integration with nFactor and Multiple IDPs for CSPs provides guidance to design and implement authentication with multiple IDPs via Citrix ADC while leveraging the capabilities of Citrix Workspace.

**Virtual Apps and Desktops service with Google Cloud Platform for Citrix Service Providers** - Citrix Virtual Apps and Desktops service implementation with Azure Active Directory Domain Services for CSPs Reference Architecture aligns with the use cases described in the CSP Citrix Virtual Apps and Desktops Reference Architecture to provide guidance and implementation steps to use Azure AD Domain Services.

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**Citrix Virtual Apps and Desktops**

December 2, 2021

**Overview**

Welcome to the section of the Tech Zone focused on Citrix Virtual Apps and Desktops.

Within the following subsections, you can learn about how Virtual Apps and Desktops works, see the different capabilities, and learn how organizations integrate the solution within their environment.
Intro to Citrix Virtual Apps and Desktops

December 1, 2021

Overview

If you are new to Citrix Virtual Apps and Desktops, take a moment to learn more about the product with the following items to help you learn more.

Product Overview

From any location on any device, users can access their virtual apps and desktops, allowing you to gain the flexibility you need with the most comprehensive desktop as a service (DaaS) and VDI options available.

Links

Intro Video: Citrix Virtual Apps & Desktops - Product Overview

Technical Overview

Citrix Virtual Apps and Desktop enables you to securely deliver a high-performance virtual apps and desktops experience to any device. Whether the solution is deployed as a Desktops as a Service (DaaS) model or an on-premises VDI option, the overall admin experience is the same. Citrix Virtual Apps and Desktop delivers end user access to Windows and Linux applications and desktops securely from a central location.
Admin Experience

The Citrix Virtual Apps and Desktops Service allows organizations to focus on the parts of the solution that directly impacts the users (the virtual desktops/apps servers). With the cloud-managed control plane, Citrix manages the underlying infrastructure (databases, controllers, and license servers). See how an entire Citrix Virtual Apps and Desktops solution can be deployed in less than 20 minutes with the use of the cloud-hosted control plane.

Conceptual Architecture Posters

At a high-level, learn about the components and interactions within the Citrix Virtual Apps and Desktops solution. The posters are divided into the cloud-hosted control plane and the on-premises control plane.

Getting Started with Citrix Virtual Apps and Desktops

February 17, 2022
Overview

With a baseline understanding of Citrix Virtual Apps and Desktops, the next step is to get create a small, non-production environment to validate concepts and applicability to the business. Creating a small proof of concept will also provide administrators first-hand experience with the solution.

Delivering a Virtual Desktop

A common deployment example for Citrix Virtual Apps and Desktops is to take a baseline image and deploy it as a virtual desktop to users. This proof of concept guide will take you through the entire process so you can successfully deploy your first virtual resource to users.

Links

Follow the Guide: Proof of Concept Guide: Delivering a Virtual Desktop to users

Delivering Azure Virtual Desktops

Learn how to deliver Azure Virtual Desktop (AVD) based desktops and apps and on-premises resources to your users in a single place. Manage both the AVD environment in Azure and your on-premises environment from a single place in Citrix Cloud with Citrix Virtual Apps and Desktops service.

Links

Follow the Guide: Quick Start Guide for Azure Virtual Desktop

Follow the Guide: Proof of Concept Guide for Azure Virtual Desktop

Providing Remote PC Access to Users

Learn how to remotely connect your users working from home to their physical PCs in the office. Quickly connect your on-premises physical machines to with Citrix Virtual Apps and Desktops service to allow remote access from anywhere and on any device.
Feature Videos for Citrix Virtual Apps and Desktops

March 29, 2022

Overview

The following is a list of capabilities for Citrix Virtual Apps and Desktops. These short demonstrations provide examples of how the features impacts the overall solution. Use these videos to gain deeper insights into the full range of capabilities within Citrix Virtual Apps and Desktops.

Azure Virtual Desktops

Microsoft’s desktop as a service (DaaS) offering allows organizations to securely deliver virtual apps and desktops from the Azure cloud. By deploying Azure Virtual Desktop with Citrix, organizations can add even more value to the platform. Watch to see how

Federated Authentication Service

Citrix allows organizations to standardize on a non-Active Directory based Identity Providers (IdP), like Okta. However, Windows-based desktops and apps require an Active Directory account for authentication. The federated authentication service, integrated with Citrix Virtual Apps and Desktops, utilizes virtual smartcards to provide single sign-on to Windows-based resources. This eliminates the need for users to authenticate multiple times when accessing Windows-based resources.
HDX

HDX is a set of technologies ensuring an unparalleled user experience when accessing virtual Windows/Linux applications and desktops.

Remote PC Access

Remote PC Access allows a remote user to log into their physical Windows office PC using virtually any device (tablets, phones, and laptops using iOS, Mac, Android, Linux, and Windows). Remote PC Access enables hybrid work models where users are able to work in the office and remote.

User Personalization Layer

User layers provide a better experience for administrators and users in a virtual app and desktop environment. User layers allows user-based customization to non-persistent virtual environments. User layers solves the most difficult usability concerns in a virtual app and desktop environment: Outlook cache, OneDrive synchronization, Windows search, and user-installed apps.
Workspace Environment Management

Workspace Environment Management monitors and analyzes user and application behavior in real time, then intelligently adjusts system resources to improve the user experience.

Reference Architectures for Citrix Virtual Apps and Desktops

February 9, 2022

Overview

A solution like Citrix Virtual Apps and Desktops is applicable for many different scenarios. Many of the unique capabilities within Citrix Virtual Apps and Desktops can quickly solve an organization’s requirements. The following reference architectures provides insights into how organizations used Citrix Virtual Apps and Desktops.

DaaS for Contact Centers

Contact Centers are vital when it comes to customer interaction and satisfaction. Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.
DaaS for Flexible/Hybrid Workstyles

When Covid-19 occurred, it forced all employees to work remotely. Although many employees became permanent remote workers, a group of employees have roles requiring onsite, office work. IT wants to provide the office-based employees with the flexibility of working remotely as needed.

DaaS for Business Continuity

The company has always had a subset of remote users relying on an on-premises Citrix Virtual Apps and Desktops environment. However, when regional/global issues force more users to work remotely, the limited, on-premises capacity is unable to scale to meet the higher demand. This reference architecture explains how to plan a cost-effective solution with a business continuity strategy in place.

DaaS on AWS

Understand the most critical design decisions necessary to successfully deploy Citrix virtualization technologies on Amazon’s public cloud. In this document, we use the Citrix Architectural Design Framework to organize and present the leading practices, recommendations, and design patterns which are used by Citrix.
DaaS on Azure

The combination of Citrix Cloud services and Microsoft Azure makes it possible to spin up new Citrix virtual resources with greater agility and elasticity, adjusting usage as requirements change. Virtual Machines on Azure support all the control and workload components required for a Citrix Virtual Apps and Desktops service deployment. Citrix Cloud services and Microsoft Azure have common control plane integrations that establish identity, governance, and security for global operations. This document also provides guidance on prerequisites, architecture design considerations, and deployment guidance for customer environments. The document highlights the design decisions and deployment considerations across the five key architectural principles.

Links

Read more: Citrix DaaS on Azure

DaaS on Google Cloud Platform

Organizations of all shapes and sizes are making the move to the cloud and subscription based managed services. For organizations who are all in on the cloud, the Cloud Forward design pattern is a great match. The Cloud Forward design pattern uses state of the art, cloud-delivered services from Citrix and Google.

Links

Citrix DaaS on Google Cloud

Zero Trust Strategy for Mergers & Acquisitions

Learn how to design an environment to support a mergers and acquisition strategy without compromising IT security. The reference architecture incorporates Citrix Workspace, Secure Private Access, Virtual Apps and Desktops, Application Delivery Controller, Federated Authentication Service and Security Analytics.

Links

Read more: Zero Trust Strategy for Mergers & Acquisitions
View demo: Zero Trust Strategy for Mergers & Acquisitions

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Design Guidance for Citrix Virtual Apps and Desktops

December 6, 2021

Overview

In a Citrix Virtual Apps and Desktops design, there are multiple paths you can take to create a solution that aligns with the user requirements. The following guidance focuses on those areas that are critical for almost every design, regardless of scenario. Additional, and often more advanced, topics can be found in the Advanced Concepts section.

Step 1: Delivery Models

A Citrix Virtual Apps and Desktops solution can take on many delivery forms. The organization's business objectives help select the right approach as the different models impact the local IT team's management scope. Learn how Citrix Virtual Apps and Desktops management scope changes based on using a locally managed deployment, a cloud service deployment and a cloud managed deployment.

Step 2: Desktop Models

Selecting the best virtual desktop model starts with properly defining user groups and aligning the requirements with the capabilities of the virtual desktop models. Learn how different factors play a role in selecting the correct virtual desktop model for a user group.

Step 3: Image Management

Citrix Virtual Apps and Desktops utilizes two different image management models: Provisioning Services and Machine Creation Services. Learn about the different decision factors involved in choosing the right provisioning model for image management.
Step 4: Single Server Scalability

In the early stages of design, administrators need to create a rough estimate on the overall scale of the end solution based on users and workload. Learn how to calculate an estimate for how many users you can have on a single server, what are the different variables that have an impact on scalability and recommendations to improve it.

Links
Read more: Image Management Provisioning Model Comparison

Step 5: Bandwidth Requirements

Links
Read More: Estimating User Bandwidth Requirements

Step 6: Microsoft 365

Historically, Microsoft Office is one of the most common applications delivered via Citrix Virtual Apps and Desktops. This is due to its ability to provide the user with the latest version of Office with the best user experience for a wide range of use cases. With Microsoft 365, the value of Citrix Virtual Apps and Desktops has not changed. To deliver Microsoft 365 to users properly, we provide the following recommendations to enable an optimized user experience while minimizing the potential impact to the underlying infrastructure.
Step 7: Baseline Policy Design

Policies provide the basis to configure and fine-tune Citrix Virtual Apps and Desktops environments, allowing organizations to control connection, security, and bandwidth settings based on various combinations of users, devices, or connection types. Learn about the different decisions related to the baseline policy design.

Step 8: Baseline Printing Design

Citrix Virtual Apps and Desktops supports various printing solutions. It is essential to understand the available technologies and their benefits and limitations to plan and successfully implement the proper printing solution.

Step 9: Fault Tolerance

Learn how Citrix Virtual Apps and Desktops and Citrix Cloud services are architected and built for resiliency. Understand how Service Continuity features enable users to connect to the resources that are accessible even if some or all of the cloud services are unreachable. Learn how local host cache helps provide high availability in the event of a service issue.
Monitoring Citrix Virtual Apps and Desktops

December 1, 2021

Overview

Once virtual desktops and apps are available for users, it is important to monitor the environment. With proper monitoring, administrators can quickly identify areas within the environment that are underperforming.

Citrix Director

Administrators and help-desk personnel can monitor Citrix Virtual Apps and Desktops service from Monitor, the monitoring and troubleshooting console. The Monitor tab displays a dashboard to monitor, troubleshoot, and perform support tasks for subscribers.

Citrix Analytics for Performance

Performance Analytics gives administrators the tools and data to improve the performance of the environment with real, actionable data. It provides user-centric experience scores, application, and infrastructure performance scores through advanced analytics. It provides multi-site aggregation and reporting so customers with multiple sites can consume data from a single console.

Links

Read more: Monitoring

Read more: Technical Brief

View demo: Overview Video

View demo: Identifying Black Hole Machines

View demo: Identifying Overloaded Machines

View demo: Deep Dive

Follow the Guide: Proof of Concept Guide
Optimization Recommendations for Citrix Virtual Apps and Desktops

March 8, 2022

Overview

With proper monitoring, administrators are able to identify what areas of the solution to focus optimization efforts on. The following items are some of the most common areas for optimizing a Citrix Virtual Apps and Desktops deployment.

Azure Virtual Desktops

Learn about the value add Citrix provides to your Azure Virtual Desktop environment running in Microsoft Azure. Citrix Virtual Apps and Desktops service provides a cloud-based management, provisioning, and capacity management solution for delivering virtual apps and desktops to any device. See how cost savings can be achieved while delivering a superlative user experience and enhancing the security posture of our deployment.

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Cloud Cost Optimizations

Explore the various ways Citrix enables admins to save on cost when hosting workloads in the cloud. Learn about different load balancing algorithms and scaling methodologies and how much they can save in an environment based on our tests.

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End User Experience

HDX is a set of remoting technologies providing the user with the best possible virtual application and desktop experience. The technologies within HDX include things like the ICA protocol, adaptive display, adaptive throughput, browser content redirection and more. Each technology within HDX focuses on a unique part of the overall virtual app and desktop session delivery approach. To see how these capabilities improve the overall experience, watch the following videos.

Links

- View demo: Adaptive Display
- View demo: Adaptive Throughput
- View demo: Adaptive Transport
- View demo: Browser Content Redirection

Logon Performance

To deliver the best possible logon performance, Workspace Environment Management replaces commonly used Windows Group Policy Object objects, logon scripts, and preferences with an agent, which is deployed on each virtual machine or server. The agent is multi-threaded and applies changes to user environments only when required, ensuring that users always have access to their desktop as quickly as possible. Time consuming processes are handled out of sync with the initial logon process.

Links

- View demo: Logon Optimization
- Read more: Logon Optimization

Microsoft Teams and Unified Communications

By optimizing the way Microsoft Teams voice and video communication packets cross the wire, Citrix Virtual Apps and Desktops delivers a virtual meeting experience identical to that of a traditional PC.

Links

- View demo: Microsoft Teams Optimization
- Follow the Guide: Getting Started Guide for Microsoft Teams Optimization
Resource Utilization

CPU and RAM optimization, involves real-time monitoring of the process running on each VM. When a process is detected to be monopolizing CPU resources (for a defined amount of time), Workspace Environment Management automatically reduces the priority of the process. When processes go idle, Workspace Environment Management automatically releases reduces the application’s RAM working set. These optimization techniques help reduce overall server load.

WAN Optimization

Learn how to optimize the delivery of the Citrix Virtual Apps and Desktops from cloud and on-premises Resource Locations to users at branches or home offices, with a Citrix SD-WAN appliance, by minimizing latency, and improving session responsiveness during network issues.
Advanced Concepts for Citrix Virtual Apps and Desktops

December 6, 2021

Overview

Citrix Virtual Apps and Desktops includes capabilities to handle almost every user requirement. Many of these capabilities are advanced topics, often reserved for those specific scenarios. These advanced capabilities are what makes this solution so powerful. Being able to meet every requirement within a single product.

Architecture

Learn about the components and interactions within the Citrix Virtual Apps and Desktops solution. The architecture items are helpful when planning your solution and firewall requirements.

App Layering

Gain a deep understanding of the Citrix Layering technology that simplifies the image management for VDI and hosted-shared environments including use cases and technical concepts.
Automated Configuration Tool

Learn how to use the Automated Configuration tool to automate moving your Citrix Virtual Apps and Desktops configuration to your Citrix Virtual Apps and Desktops Service deployment, as well as moving your configuration between Citrix Virtual Apps and Desktops Service deployments.

Links

Follow the Guide: Getting Started with the Automated Configuration Tool

Disaster Recovery Planning

This guide assists with business continuity (BC) and disaster recovery (DR) architecture planning and considerations for both on-prem and cloud deployments of Citrix Virtual Apps and Desktops. Disaster Recovery is a significant topic in breadth of scope in and of itself. Citrix acknowledges this document is not a comprehensive guide to overall Disaster Recovery strategy. It does not consider all aspects of Disaster Recovery and at times takes a more layman’s terms perspective on various Disaster Recovery concepts.

Links

Read More: VDI and DaaS Disaster Recovery Planning

Federated Authentication Service

The Federated Authentication Service provides single sign-on to Windows-based virtual apps and desktops when using a non-Active Directory based identity provider

Links

View demo: Federated Authentication Service
Follow the Guide: Federated Authentication Service with Azure Active Directory
Google Chrome

Tech Paper focused on installation, configuration, and various optimizations for Google Chrome browser running on Citrix Virtual Apps and Desktops.

Links

Follow the Guide: Deploying Google Chrome in a Virtual Desktop Environment

HDX

To meet different user requirements, Citrix HDX protocol allows for different graphics modes to be configured. The purpose of this article is to outline the different HDX modes and how they are configured. It gives you a starting point from where you can configure your environment to best fit the needs of your users, your workload, and the current network conditions.

Links

Read more: HDX Graphics Overview
View demo: Adaptive Display
View demo: Adaptive Throughput
View demo: Adaptive Transport
View demo: Browser Content Redirection
View demo: Microsoft Teams Optimization

Image Management

Citrix Virtual Apps and Desktops provides multiple approaches for image provisioning and image lifecycle management, Machine Creation Services and Provisioning Services. The approaches used are different, resulting in different benefits for the users and admin.

Links

Read More: Image Management Tech Brief
Follow the Guide: Windows 10 Deployment Guide
Migration

Learn how to migrate your on-premises Citrix Virtual Apps and Desktops environment to Citrix Virtual Apps and Desktops service utilizing Citrix Cloud

Remote PC Access

Remote PC Access is an easy and effective way to allow users to access their office-based, physical Windows PC. Using any endpoint device, users can remain productive regardless of their location. However, organizations want to consider the following when implementing Remote PC Access.

Security Practices

Tech paper focused on security recommendations and security practices for administrators. Use this guide to navigate security planning, implementation, and ongoing operation.
### ServiceNow

Learn how to integrate ServiceNow within your Citrix Virtual Apps and Desktops environment including key technical concepts and use cases. The integration helps automate, monitor, and manage Citrix Virtual Apps and Desktops environments seamlessly and easily with ServiceNow.

### User Profile Management

The use of Citrix Profile Management greatly enhances the end-user experience. Citrix Profile Management is designed to remove profile bloat and significantly speed logon times, while reducing profile corruption. Learn how to leverage profile management within a DaaS environment.
Workspace Environment Management

Learn how Workspace Environment Management uses intelligent resource management and Profile Management technologies to deliver the best possible performance, desktop logon, and application response times for Citrix Virtual Apps and Desktops sessions, as well as enhances the security of the deployment.

Articles: Citrix Workspace

October 28, 2021

List of articles related to Citrix Workspace.

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Authentication - Citrix Gateway - Utilize an on-premises Citrix Gateway as an identity provider for Citrix Workspace.

Authentication - Okta - Utilize Okta as the user’s primary identity for Citrix Workspace

Authentication - Push - Extend an on-premises TOTP deployment with Push authentication, eliminating the need for users to manually enter the temporary token.

Authentication - SAML - Utilize a SAML provider as the user’s primary identity for Citrix Workspace
Authentication - **TOTP** - Time-based One-Time Password (TOTP) provides multifactor authentication to the user’s Workspace experience.

**Citrix Value Adds to Azure Virtual Desktop** - Learn about how Citrix provides key capabilities to increase flexibility, agility, security, and more to Azure Virtual Desktop, while also driving down costs.

**Contact Center Solution** - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

**Microapps** - Increase productivity by adding microapps to Citrix Workspace. Microapps allow users to view information and perform actions without launching the full application.

**Microapps Custom Integrations** - Create custom integrations with the microapp builder through the HTTP connector.

**Service Continuity** - Helps ensure that end-users are still able to launch their virtual apps and desktops, even when cloud services are down.

**Site Aggregation** - Hybrid deployment that allows your on-premises Citrix Virtual Apps & Desktops environments to be part of Citrix Workspace.

**VPN-Less Access to Web, Windows and Linux Resources** - Learn how users can access internal web apps, Windows/Linux apps and Windows/Linux desktops without a VPN.

**Workspace app** - Personalized interface to provide access to all assigned SaaS apps, web apps, virtual Windows apps, virtual Linux apps, desktops, and data.

**Zero Trust Strategy for Mergers and Acquisitions** - See how Citrix Workspace can help create a zero trust strategy for mergers and acquisitions through the use of Citrix Application Delivery Controller, Citrix Virtual Apps and Desktops Service, Citrix Secure Private Access, and Citrix Analytics for Security.

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**Learn - Tech Briefs**

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

**Citrix Workspace** - End users should be able to work where, when, and how they want. Citrix Workspace has everything you need to keep people productive and data secure.

**Workspace app** - Personalized interface that provides access to all assigned SaaS apps, web apps, virtual Windows apps, virtual Linux apps, desktops, and data.

**Workspace Identity** - Learn how Citrix Workspace utilizes a secure primary identity to broker authorization to SaaS, web, mobile and virtual apps.

**Workspace Microapps** - Streamline functionality from complex enterprise applications creating simple actions users can complete right within their feed.
Workspace Single Sign-On - Learn how Citrix Workspace provides single sign-on capabilities to SaaS apps, web apps, mobile apps, Windows virtual apps and Windows virtual desktops. In addition, learn how Workspace single sign-on can support IdP chaining configurations.

Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

Citrix Workspace App for Microsoft Teams - Learn how to enable the Citrix Workspace App for Microsoft Teams to enable your users to easily access their Citrix ShareFile documents and share them within Teams.

Proof of Concept Guide - Use App Builder to roll out Citrix Podio-backed Broadcast and FAQ microapp templates to Citrix Workspace - Learn how to get started with Citrix App Builder and deploy Podio-backed Integrations to Workspace

Learn - Diagrams and Posters

Citrix Workspace - Conceptual architecture drawing for Citrix Workspace.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

DaaS for Contact Centers Reference Architectures - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Flexible Work - Learn how to design an environment to support a flexible work style without compromising IT security. The reference architecture incorporates Secure Internet Access, Secure Private Access, Virtual Apps and Desktops, SD-WAN, Endpoint Management and Security Analytics.

Mergers and Acquisitions - Learn how to design an environment to support a mergers and acquisition strategy without compromising IT security. The reference architecture incorporates Citrix Workspace, Secure Private Access, Virtual Apps and Desktops, Application Delivery Controller, Federated Authentication Service and Security Analytics.
Microapps Service with Citrix Workspace - Learn about the microapps platform service, which brings intelligent features to Citrix Workspace. Component architecture, use cases, and integration strategies for implementing a comprehensive solution are covered.

Workspace app - Discover the technical aspects of Citrix’s vision for the secure, modern digital workspace through the Citrix Workspace app - accessible on all your devices.

Zero Trust Network Access for Contractors and Temp Workers - This reference architecture explains CompanyA’s Zero Trust Network Access plan to protect contractor and temp worker access to its data and apps.

Build - Tech Papers

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

Citrix Workspace app quick start guide - Quick start guide for Citrix Workspace app - everything you need to know in one place, including installation, configuration, and optimizations.

Articles: Google Cloud Platform

November 19, 2021

List of articles related to Google Cloud Platform.

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Contact Center Solution - Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers.

Learn - PoC Guides

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

Google Cloud Platform (GCP) Shared VPC Support with Citrix Virtual Apps and Desktops - Learn how to use Machine Creation Services (MCS) to provision machines in a Shared VPC on Google Cloud Platform (GCP). Then, learn to manage the machines using Citrix Studio.
Google Cloud Platform (GCP) Windows 10 Sole Tenant with Optional Shared VPC Catalog Creation - Learn to deploy provisioned Windows 10 catalogs to GCP Sole Tenant nodes in Citrix Virtual Apps and Desktop Service.

Google Cloud Platform (GCP) Zone Selection Support with Citrix Virtual Apps and Desktops service - Learn how to configure zone selection on Google Cloud Platform to enable sole tenancy in Citrix Virtual Apps and Desktop Service.

Learn - Deployment and Configuration Guide

The deployment and configuration guide provides step-by-step instructions to deploy and manage Citrix virtualization on Google Cloud by following the guide in test environment.

Citrix virtualization on Google Cloud - Deployment and Configuration Guide - Learn how to deploy and configure Citrix virtualization on Google Cloud.

Design - Reference Architectures

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Citrix virtualization on Google Cloud - Learn the architecture and deployment considerations for Citrix solutions on Google Cloud Platform.

Articles: Security

September 22, 2021
List of articles related to security.

Learn - Tech Insights

Tech Insights are short, 10-15 minutes videos explaining a technology, a feature, a function with foundational technical insights and a visual walkthrough of the technology.

Citrix Value Adds to Azure Virtual Desktop - Learn about how Citrix provides key capabilities to increase flexibility, agility, security, and more to Azure Virtual Desktop, while also driving down costs.

Learn - Tech Briefs

Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.
**App protection** - App protection policies protect application data from attacks based on keyloggers and screen capture tools. Allow companies to embrace BYOD, and extend resources to remote workers, contractors, and gig economy workers.

**Zero Trust** - Zero Trust is the most important End User Computing movement since Mobile and Cloud. The Citrix Zero Trust Architecture enables the “any-any-any” vision that Citrix has been espousing for years and is secured by access policies that take trust into context.

**Learn - PoC Guides**

PoC guides provide step-by-step instructions to learn about functionality of the solution by following these guides in test environment.

**App protection policies** - Learn how to enhance the security of your endpoints with App protection policies as part of Citrix Virtual Apps and Desktops deployment. Protect your users with anti-keylogging and anti screen capture functionality.

**URL Redirection with Secure Browser and Citrix ADC in Azure** - Learn how to provide the dynamic delivery of resources by redirecting browsing to a Secure Browser service protecting the company network without sacrificing user experience.

**Design - Reference Architectures**

Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

**Architectural Considerations for the General Data Protection Regulation - GDPR** - Learn how Citrix solutions enable organizations to meet the European GDPR data privacy laws while also meeting business objectives.

**Desktop-as-a-Service for Business Continuity** - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

**Federated Authentication Service** - Learn about Federated Authentication Service, authentication delegation and how to use seamless web authentication methods to log in to Windows environments for both Citrix Cloud and on-premises deployments.

**Build - Tech Papers**

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

Networking SSL / TLS Best Practices - Tech Paper focused on SSL / TLS best practices for Citrix Networking deployments. We cover configuration items such as the certificate chain bound to the virtual server, cipher suite settings, and disabling older protocols that are vulnerable to attack.

Articles: Other

July 27, 2021
List of articles not specifically related to any Citrix product.

Learn - Tech Briefs
Tech Briefs are short overview documents explaining a technology, a feature, a function next to a technical diagram.

Business Continuity - Business continuity events can have a regional or global impact. Learn about the different ways Citrix allows users to remain productive when making it to the office is not possible.

Design - Reference Architectures
Reference architectures are comprehensive guides that assist organizations in planning their Citrix implementations complete with use cases, recommendations, and more.

Desktop-as-a-Service for Business Continuity - Learn how to design an environment that uses Desktop-as-a-Service as a Business Continuity solution. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, and Performance Analytics.

Design - Design Decisions
Design decisions helps you guide through the decision process to configure, optimize, and deploy your solution in its best way.

Evaluating Application Delivery Methods - Learn about the different decision factors involved in choosing the optimal application delivery method.
Build - Tech Papers

Tech papers are deep dives into specific problem, technology or solution providing details, leading practices and architectural insights.

Communication Ports Used by Citrix Technologies - Overview of ports that are used by Citrix components and must be considered as part of networking architecture.

Table of Contents - By Solution

February 9, 2022

The following provides a list of the latest solutions-based content available on Tech Zone. Within each solution, you will find additional insights to help you get started, see how technology is used, and understand how other organizations have designed their solution.

- Citrix Delivered DaaS on Google Cloud Platform - Learn how to plan, design and deploy a Citrix delivered DaaS solution on Google Cloud Platform. The solution includes deployment guides, reference architectures, and design guidance.

Solution Hub - Citrix Virtualization on Google Cloud

February 9, 2022

Author:
Rick Dehlinger

Overview

Welcome to the Solution Hub for Citrix virtualization on Google Cloud! If you, like many customers, have an interest in deploying Citrix virtualization solutions on Google Cloud, then you’ve found the right place to start! You’ve also found the place to come back to as your needs (and the components of the Citrix/Google solution) evolve over time.

This document represents the efforts of a group of people who are committed to your success. We’re using this “Solution Hub” for one express purpose - to share the resources and guidance we feel will help you find success. Think of this hub as a focal point of sorts - as a way to present and curate the resources we believe will help you to be successful.
We're going to get some of this right, and we're going to get some of it wrong. Either way, we'd appreciate the opportunity to learn from your feedback! You can start the conversation with an email to our Citrix on Google SME working group. Thank you in advance for allowing us to be part of your journey!

So… where to?

By the time you begin exploring this Solution Hub, you should have a reasonably solid idea what Citrix virtualization is, what Google Cloud is, and why you may want to use them together. If you don’t, this hub is probably one or two clicks deeper than you want to be. If this is you, you may want to start your journey here.

If you’re an engineer or an architect looking for guidance on WHAT you’re going to build, you’ll want to click down into our Design Guidance section. Here you’ll find detailed descriptions of 3 different design patterns (FKA ‘Reference Architectures’) to help you define the architecture of the system you’re building. Next, we get deep into a variety of different considerations for designing the workload - the Citrix VDA’s.

If you’re looking for guidance on HOW to build a Citrix virtualization system on Google Cloud, we’ve got guidance for that too. You can find step by step deployment guidance in the Getting Started section. It provides step by step guidance on how to implement the Cloud Forward design pattern, though the skills you’ll learn can be applied to building your production system when the time comes.

If you’re looking for information on advanced topics such as Migration and Modernization, look no further than the Advanced Concepts section.

Finally, if you’d like to explore more how Citrix on Google Cloud fit together for different use cases, check out the Reference Architectures section.

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Getting Started with Citrix DaaS on Google Cloud

February 2, 2022

Author:
Rick Dehlinger
Overview

Forward thinking and innovative organizations around the world are choosing to run their Citrix virtualization workloads on Google Cloud. While most Citrix solutions can run in any cloud or resource location, Citrix offers several editions of its industry leading virtualization technology which run on Google Cloud. Likewise, Google offers multiple managed compute environments upon which Citrix workloads are supported. This guide will help you get started with Citrix virtualization on Google Cloud.

Which Citrix can I use?

Citrix currently offers multiple editions of its virtualization software to meet different customer requirements and use cases. These editions differ based upon who manages the Virtual Apps and Desktops control plane (the customer or Citrix) and where the control plane runs. Either can be used to run Citrix workloads on Google Cloud, with a couple caveats. Customer managed control planes support provisioning to Google Cloud beginning with the 2203 LTSR release. Most Citrix managed control planes support Google Cloud, but this capability is controlled by the edition being licensed. See the Citrix Virtual App and Desktop service feature matrix for details.

This guide focuses on the usage of Citrix managed control planes (provided by the Citrix Virtual Apps and Desktops service). These use cases are referred to as DaaS (hybrid or managed) but much of the guidance provided here is also applicable to customer managed control planes - now commonly referred to as VDI.

CVAD service, Google Cloud Editions

Citrix offers two Google Cloud Editions of the Citrix Virtual Apps and Desktops service (Standard and Premium for Google Cloud), both of which feature control planes that run on Google Cloud. Both will ultimately be available for customer consumption through the Google Cloud Marketplace. Both will also support hybrid DaaS use cases, allowing customers to deploy and manage VDA's on their existing on-premises infrastructure as well as Google Cloud. Neither edition supports multi-cloud management - this feature is only available via the Citrix Virtual Apps and Desktops Premium service edition.

Note:

During tech preview, both Google Cloud editions are only available to Citrix Cloud customers who’s Org is being served via the US Citrix Cloud control plane. Customers interested in participating in the Google Cloud edition tech preview program, please reach out to your Citrix representative and ask them to get you added to the early access list.
Hybrid DaaS on Google Cloud

A common deployment option for Citrix Virtual Apps and Desktops service is to deploy a resource location into a customer managed Google Cloud compute environment. This effectively creates a Citrix managed DaaS platform. Add Citrix workloads (VDA's) running on-premises, and you’ve now got a ‘Hybrid DaaS’ deployment. This guide focuses on this ‘Hybrid DaaS’ use case.

Supported Google Cloud Compute Environments

Google Cloud currently offers two different compute environments which can be leveraged with Citrix Virtual Apps and Desktops service: Google Cloud Compute Engine (GCE) and Google Cloud VMware Engine (GCVE).

Google Cloud Compute Engine is Google’s native compute platform, based on their own hypervisor and native management stack. On GCE, virtual machines run in a shared environment, and licensing for Windows Server and various Linux distributions can be paid for based upon actual usage. GCE also includes dedicated sole-tenant nodes which can be used to support ‘bring your own’ licensing models, and are required by some software vendors’ licensing and support policies. For many organizations, GCE ends up being the most flexible and cost-effective compute platform for enterprise workloads.

Google Cloud also currently provides a second compute environment which can be used for Citrix virtualization workloads - Google Cloud VMware Engine (GCVE). GCVE is a first-party service, sold and supported by Google, which allows customers to ‘rent’ and run fully managed, VMware Cloud Foundation-based SDDC’s on Google Cloud. GCVE is fully supported by the Citrix Virtual Apps and Desktops service, and is also effectively ‘dedicated hardware’. As such, it’s used to support ‘bring your own’ licensing models, and also complies with some software vendors’ licensing and support policies.

For organizations who have invested heavily in VMware tooling in their legacy data center environments, Google Cloud VMware Engine can be a great choice for a compute environment on Google Cloud, allowing them to enjoy the benefits of a fully managed cloud service without changing up their existing investments in VMware anchored tooling, processes, and knowledge. By also providing and supporting VMware HCX for VMware Engine, it can also facilitate a more expedient migration off of self-managed infrastructure and into Google Cloud.

Deployment Guidance

While the process of deploying a Citrix Cloud resource location differs a bit in the detailed steps depending upon your starting point (greenfield or migration) as well as your choice of compute environment on Google Cloud, the general, high-level flow does not.

If you choose Google Cloud VMware Engine as your compute environment on Google Cloud, you can get started by reviewing the detailed steps on setting up a resource location in the Citrix Virtual App and Desktop service documentation. If you choose Compute Engine as your compute environment
on Google Cloud, you can start your journey by reviewing the step-by-step deployment guidance provided below.

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**Managed DaaS on Google Cloud**

In 2021, Citrix and Google announced their intention to deliver a Citrix managed DaaS service on Google Cloud. This service will leverage the DaaS capabilities offered by Citrix Cloud Virtual Apps and Desktops service and include Citrix managed VDA infrastructure running on Google Cloud. When released, this service will be made available in the Google Cloud Marketplace, and customers will be able to pay for the service on a month by month basis. If you’re interested in participating in the tech preview for Managed DaaS on Google Cloud, please reach out to your Citrix representative and ask them to get you added to the early access list.

**Reference Architectures for Citrix DaaS on Google Cloud**

January 21, 2022
Overview

A solution like Citrix DaaS on Google Cloud is applicable for many different scenarios. Many of the unique capabilities with the cloud services can quickly solve an organization’s requirements, without requiring massive on-premises deployments. The following reference architectures provide insights into how organizations utilize Citrix DaaS on Google Cloud Platform.

DaaS for Contact Centers

Contact Centers are vital when it comes to customer interaction and satisfaction. Learn how to design an environment that uses Desktop-as-a-Service and Chrome OS for Contact Centers. This reference architecture incorporates Citrix Virtual Apps and Desktops service, SD-WAN, Citrix Workspace, Citrix Secure Internet Access, Citrix Endpoint Management and Security Analytics.

Links

Read more: Citrix DaaS for Contact Centers
View demo: Citrix DaaS for Contact Centers

DaaS for Citrix Service Providers

The Virtual Apps and Desktops service with Google Cloud Platform for Citrix Service Providers reference architecture aligns with the use cases described in the CSP Citrix Virtual Apps and Desktops Reference Architecture to provide guidance and implementation steps to use Azure AD Domain Services.

Links

Read more: Virtual Apps and Desktops service with Google Cloud Platform for Citrix Service Providers

Design Guidance for Citrix DaaS on Google Cloud

January 21, 2022

Author:
Rick Dehlinger
Overview

In this section of the Solution Hub for Citrix Virtualization on Google Cloud, we walk you through considerations for designing a Citrix virtualization system on Google Cloud. We then dive into design considerations for the workloads run in the system - the Citrix VDA's. We wrap up by discussing other important topics, such as Zero Trust access.

System Level Design Considerations

We recognize that different customers are at different stages on their journey to the cloud. As such, we outline three design patterns that represent a spectrum from “we are all in” to “we will get there but it can take us a while”. Observant technologists see the common elements between all three. They start to see how they can mix and match customer managed and cloud services to meet different business needs and environmental influences. We explore this modularity of subsystems as the details of each pattern unfold.

Links

Read more: The Cloud Forward Design Pattern
Read more: The Hybrid Design Pattern
Read more: The Cloud Migration Design Pattern

Workload Level Design Considerations

The most dynamic part of a Citrix virtualization system is the VDA. Remember that VDAs are where the actual work is happening - the apps and desktops you provide users on a Citrix virtualization system run from VM instances on Google Cloud. You want to make sure you get this layer right, but don’t let perfection get in the way of progress! Do your homework up front. Set the expectation with users that the system will change over time. …and build simple and effective processes to handle change: it’s inevitable! With the power and flexibility of Citrix virtualization tech, managing change doesn’t have to be a major burden.

In this section, we’ve attempted to logically break the topic up such that we can dive deep without losing context. We do our best to provide the details you need in each section and call out leading practices and recommendations along the way.

We start by examining the different VDA related options for delivering your mix of apps and desktops, and there are quite a few! We then dive into how to configure and use Citrix Cloud’s VDA fleet and image management technologies, including MCS and the Autoscale feature. We then introduce user environment management (registry settings, drive/printer mappings, and so on) and user settings
management (user profiles, personalization layers, home drives, and so on) options, dive into cost optimization and capacity management, performance tuning considerations, and sizing considerations.

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**VPN-Less Access (Zero Trust Network Access)**

Google Cloud’s BeyondCorp Enterprise offering provides zero trust network access to corporate applications. Citrix’s Secure Private Access offering serves similar Enterprise use cases, with best in class virtualization support. The two services can be used together to meet even the most comprehensive access requirements. An overview of this solution can be found in [this blog](#), with additional technical details available in the accompanying [Solution Brief](#).

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**Advanced Concepts for Citrix DaaS on Google Cloud**

January 21, 2022

Author:

Rick Dehlinger
Overview

Integrating a Citrix DaaS Solution with Google Cloud includes capabilities to handle almost every user requirement. Many of these capabilities are advanced topics, often reserved for those specific scenarios. These advanced capabilities are what makes this solution so powerful; being able to meet every requirement within a single product. Learn about some of these items and processes within the Advanced Concepts section of Tech Zone.

Migration and Modernization

Citrix customers of all shapes and sizes are moving to cloud-based infrastructure and services, often as part of digital transformation and/or IT modernization initiatives. Many of these organizations are turning to Google Cloud and Citrix’s cloud services. This shift is often driven by the need to do more than lift and shift everything to the cloud – they’re looking to transform their people and processes as well as their infrastructure. Citrix and Google provide products, services, and guidance which meet customers where they’re at on their digital transformation journey. They also support and even accelerate the transformation process across all ‘planes’ of technology in an organization: people, processes, and technology.

In broaching this often complex topic, we start off with a logical overview of the process flow, phases, resources, programs, and tooling used to complete a migration project. We then dive into the three logical phases of migration, offering up guidance on why and how to complete each.

Links

Read more: Migration and Modernization Guide - Overview

Tech Zone Live

November 15, 2021

Tech Zone Live

Join Forces with Master Class and TIPs Experts
Tech Zone Live returns on November 17, 2021, so now’s the time to register.

The Tech Zone Live event has something for everyone. We’ve broken down the next event into three main topics to deep dive into the Citrix Launchpad events:

1. Cloud
2. Security
3. Work

In each segment, we break it down into two distinct sub-sessions covering different aspects

In Technical Session 1, Cloud, we will:

- Deep dive into the new Citrix App Delivery and Security Service
- Discuss how to easily move on-prem images to cloud with Image Portability & PVS on Azure

In Technical Session 2, Security, we will:

- Talk about our latest cloud-delivered, zero-trust service, Citrix Secure Private Access
- Discuss how Citrix + Google enable a Zero-Trust environment that minimizes attack surface and reduces threats

In Technical Session 3, Work, we will:

- Review all the latest features and functionality of Citrix Workspace
- Discuss how Citrix + Google provide solutions for Contact centers

Join us on Nov 17 2021 at Tech Zone Live

Archive

If you missed an earlier Tech Zone Live event, you can still watch each session on-demand.

July 2021

Watch July 2021 On-Demand Now.
## Session Zone

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**Watch May 2021 On-Demand Now.**

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### About Citrix Tech Zone

March 15, 2021

**What is Tech Zone?**

Citrix Tech Zone is home for technical, in-depth articles that are inspired and driven by the Citrix technical community and enthusiasts. Whether you are an architect, consultant, engineer, or technical IT manager, you can find detailed insights into Citrix solutions.

**What resources can I find in Tech Zone?**

Technical articles, videos, architectural diagrams, reference architectures, design decisions, and many more interesting technical articles that provide you the insights to design, build, and deploy Citrix technologies.

**Who is behind Tech Zone?**

Citrix experts and enthusiasts from across the globe who are passionate about Citrix technologies. Here, these experts share their insights on what they can design, build, and deploy in a secure digital workspace. These experts are Technical Marketing Engineers, Citrix Consultants, Sales Engineers, Citrix Technology Professionals, Citrix Technology Advocates, or any other technologists.

**Who can contribute?**

We are always looking for Tech Zone contributions! If you are interested in becoming one of the contributors, visit our contributors page to read more.
Contact us

You have questions or feedback about published articles? Or even new content ideas? We want to know and welcome your feedback and ideas. Use the forms outlined below:

- Feedback submission
- New content request

Thank you!

The Tech Zone Team