What's new and what's next

Nathanael Davison

Product Management - Citrix (Cloud Software Group)

EUC Forum March 2024

XenServer™

We're…

… back!

… no longer free!

… launching XenServer 8 today!

… the best hypervisor for Citrix!

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Product priorities: 2024 and beyond

inherently zero trust

automated & intelligent

hybrid multi-cloud

next-generation experiences

cost-optimised & sustainable

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User & Endpoint

Peripherals

Client Platforms

Unified Communications

RingCentral

Amazon Connect

zoom

Cisco webex

Webex Teams

AVAYA

Network & Access

700 Citrix Ready ISV partners & 5200 products certified

Active Directory

Azure Active Directory

okta

DUO

Symantec

SAML

Adaptive Authentication

HDX/ICA

HDX Proxy

netscaler

or Gateway Service

HDX/ICA

TCP | UDP | EDT

Adapt for bandwidth, Latency, Packet Loss

Apps & Desktops

Delivery Models

Multi-user Windows

Single-user Windows

Multi-user Linux

Single-user Linux

Remote PC

Operating Systems

Win Server 2008 R2

Win Server 2012 R2

Win Server 2016

Win Server 2019

Win Server 2022

Windows 11

Windows 10

Windows 7

Ubuntu

RedHat

SUSE

Debian

CentOS

Amazon Linux 2

macOS

Delivery Platforms

XenServer™

NUTANIX

vmware vSphere

Microsoft Hyper-V

Physical Systems

Azure

Google

ORACLE CLOUD

aws

vmware

IBM Cloud

amazon WorkSpaces

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LTSR.next targeted for H1 2024

Note: 1912 LTSR EOL Dec 2024

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Key Enhancements From 2203 LTSR to 2402 LTSR

Workload and Device Flexibility

- Support for latest VMware and Nutanix platform components
- Support for VMware cloud solutions on Azure, GCP, and AWS
- PVS on Azure and GCP
- New distro support with Linux VDA
- Support for Non Domain Joined VM with DaaS
- Azure AD Joined VDA support with DaaS

+ 30 additional enhancements

Operational and IT Efficiency

- Citrix Web Studio for on premises
- Citrix autoscale for on premises
- Multi-site management in Studio
- Auto-expansion policies for profile containers
- Secure Private Access integrated into Web Studio
- Policy sets for simpler policy mgmt
- Vertical load balancing for site & delivery group
- Terraform Provider support

+ 57 additional enhancements

Security and Compliance

- Variety of enhancements to Session Recording
- Support for Azure Trusted Launch & Confidential VMs
- Support for Device Guard on vSphere
- TLS 1.3 support
- Secure Private Access & Enterprise Browser for on-prem
- WEM process hierarchy control
- App Access Control
- Various security enhancements in PVS

+ 18 additional enhancements

End User Experience

- New UI in CWA & Activity Manager
- Support for AV1 video codec
- Automatic video codec select
- Microsoft Teams background blurring and simulcast
- Support for 10-Bit High Dynamic Range (HDR)
- Unified Communications SDK 3.0
- Enhanced Build-to-lossless
- Loss-tolerant mode for graphics
- Many enhancements to Linux VDA

+ 33 additional enhancements

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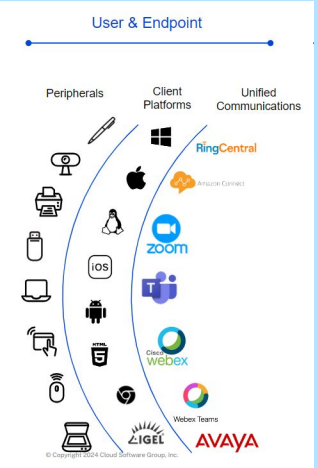
User & Endpoint



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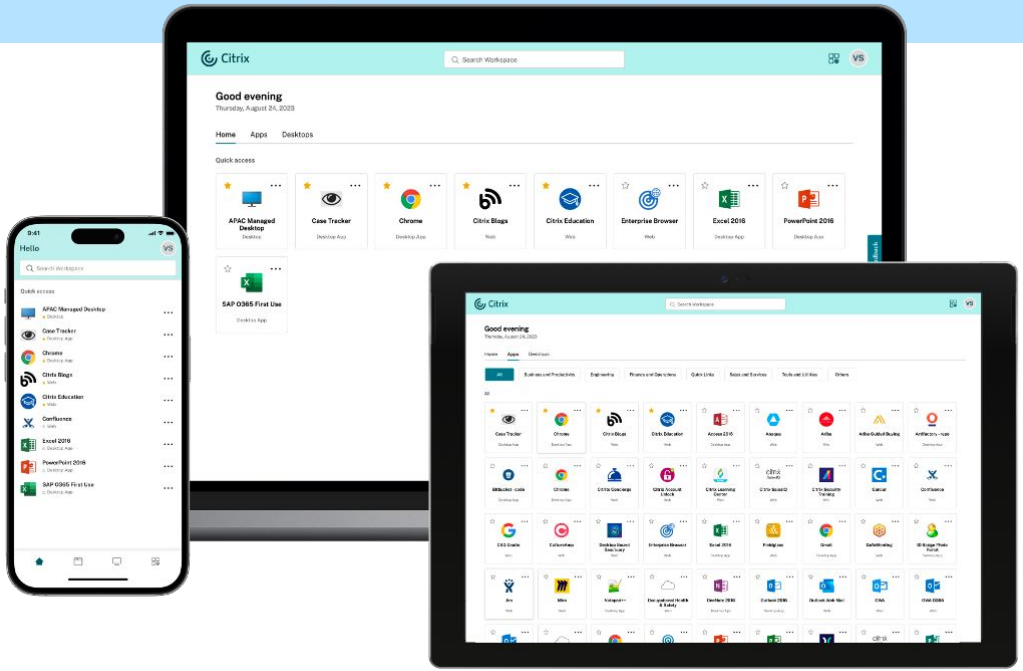
StoreFront Cloud (Workspace): Modern-simplified UI



- First Time User onboarding
- Intuitive UI for simple and descriptive view
- Apps tab to scale for categories and sub-categories
- Search enhancement: Fuzzy search, search by categories, app type, etc

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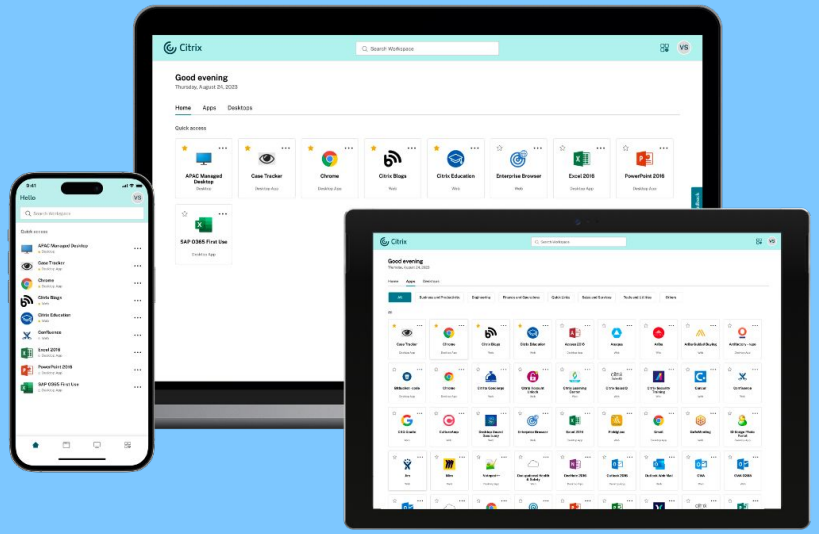
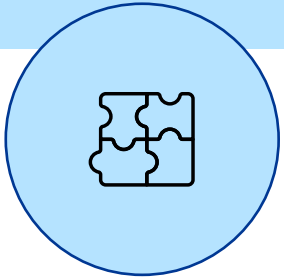
...and coming soon to on-prem StoreFront

Public Preview

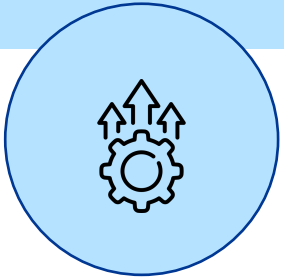
- Starting last year, StoreFront is now receiving regular updates in CR releases
- We are introducing the new and improved Citrix Workspace UI view to StoreFront.
  - Now on-premises users and admins can take advantage of Activity Manager, improved search, and more!



Citrix Enterprise Browser: Latest Developments

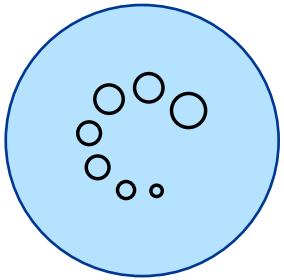


Support for custom extensions

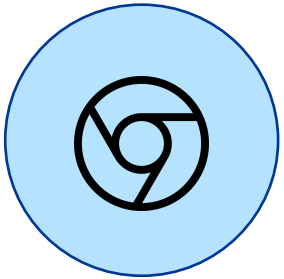


Upgrade CEB independent of CWA

Simplified SSO for on-prem with UI support (GACS)



Reconnect experience enhancements



User agent to match Chromium

Support for auth within CEB

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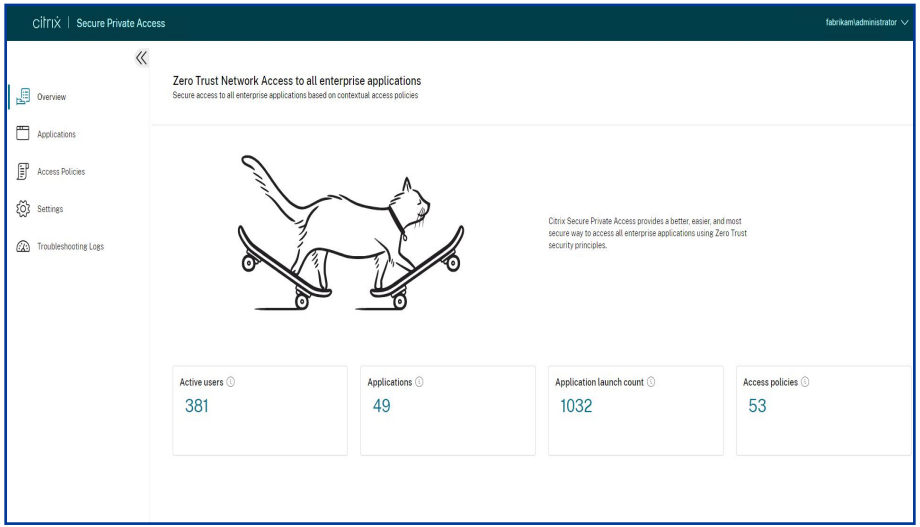
Secure Private Access On-Prem

Citrix ZTNA on-premises solution leveraging existing infrastructure
(StoreFront and NetScaler on-premises)

Integrated SPA Installer with CVAD 2311
- SPA installed by default as part of DDC installation
- Standalone SPA installer (LTSR friendly)

Configuration and Admin UI
- Initial configuration wizard
- Web-based management *(SPA service experience)*
- Dynamic policy and authorization (NetScaler) evaluation
- Contextual access
- Simplified configuration in StoreFront 2311
- NetScaler script auto generation
- Admin roles
- Web Studio integration

Monitoring
- SPA Dashboard
- Troubleshooting



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Network & Access

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HDX Enhancements

Support for AV1 Codec

- Supports encoding for NVIDIA and Intel GPUs & decoding for NVIDIA, AMD & Intel GPUs

Enhanced Video Codec Selection

- Detect endpoint's decoding capabilities during installation

Audio loss-tolerant mode

- Addresses challenges of high latency, packet los, and unpredictable conditions

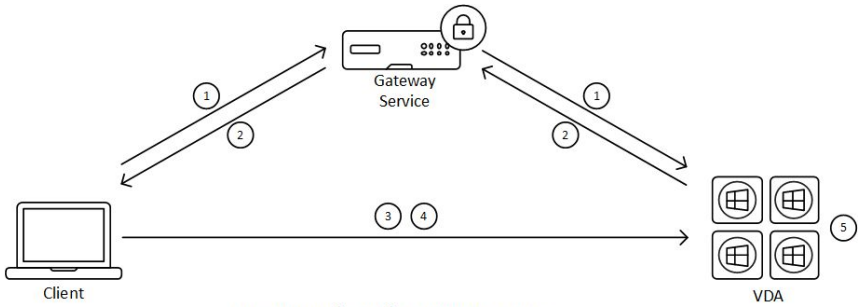
Audio Enhancements

- Audio device management
  - In-session device selection
  - Volume sync between VDA & client
- Echo cancellation for HTML5 and Chrome OS
- Adaptive Audio for IOS

HDX Direct
Public Preview

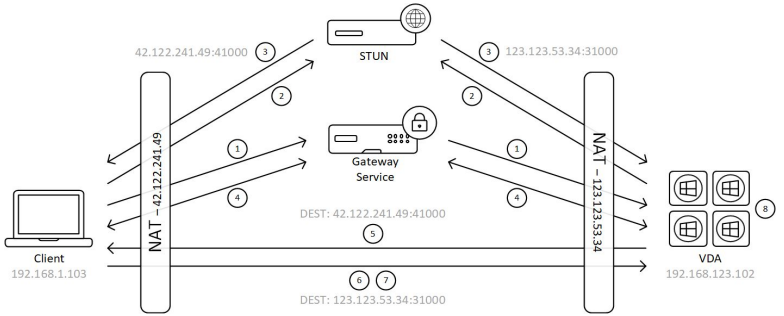
When direct communication is available, allows clients to **establish a secure, direct connection** to the session host.

Internal Clients



1. Connect through Gateway Service
2. Send VDA IPs and FQDN
3. Probe VDA IPs
4. Establish direct connection to VDA
5. Transfer session to direct connection

External Clients



1. Connect through Gateway Service
2. Send STUN request for public IP
3. Receive STUN response with public IP
4. Exchange public IPs
5. VDA sends UDP packets to client (simulates request)
6. Client responds with secure connection request
7. Direct secure connection is established
8. Transfer session to direct connection

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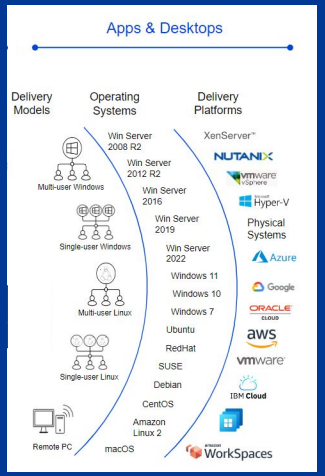
Apps & Desktops



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Support for Azure Hibernation Public Preview

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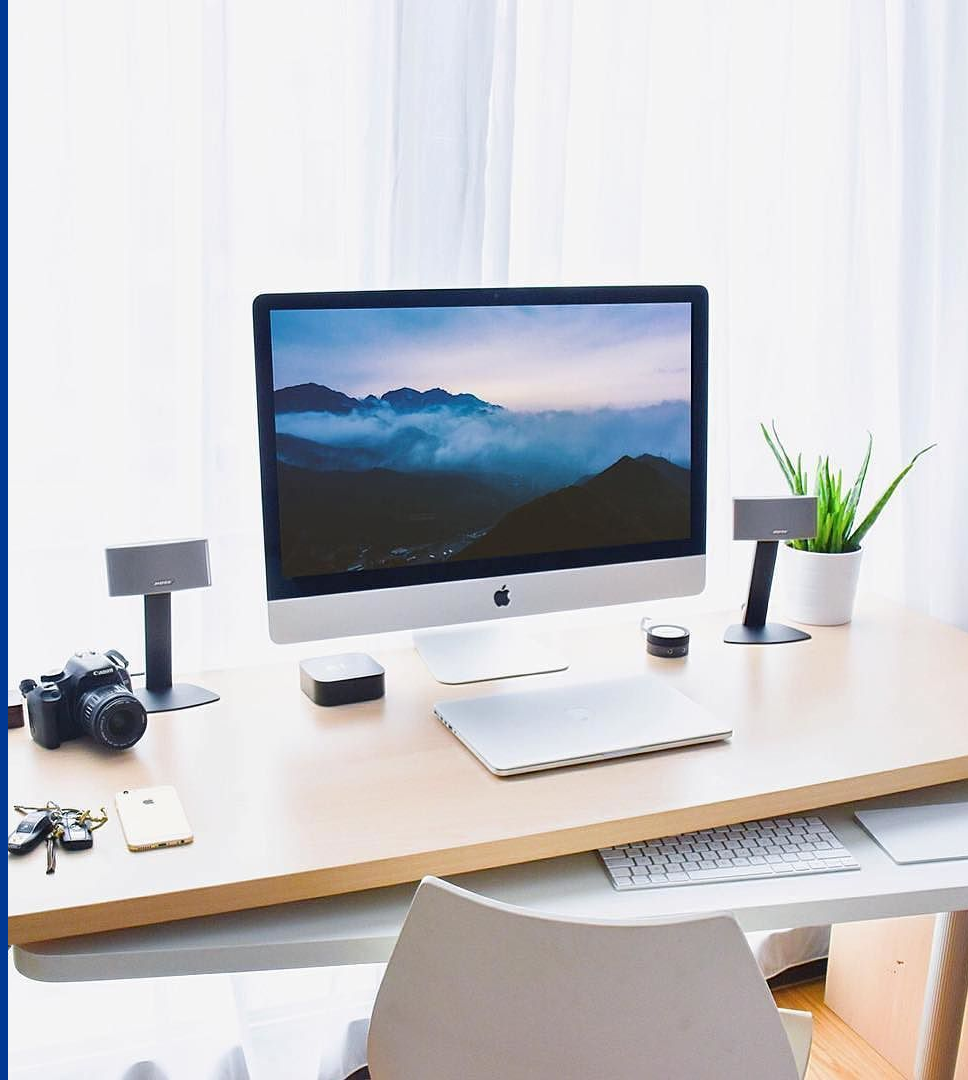
Citrix VDA for MacOS

Public Preview

- New VDA running on macOS with a delivery model like “Remote PC”
- Built on a robust foundation of HDX technologies.
- Offers all the rich feature sets that customers have come to expect from our Windows VDA
- Seamless integration with Desktop as a Service (DaaS) and Citrix Virtual Apps and Desktops (CVAD) architecture



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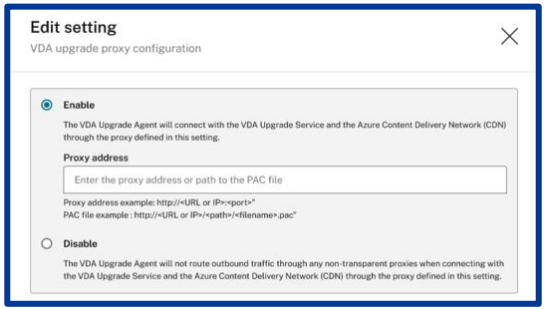
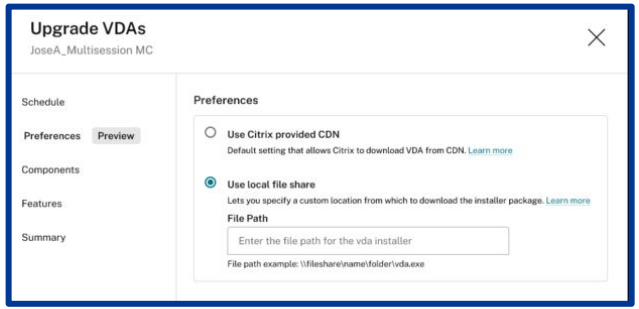
VDA Upgrade Service

Proxy Support



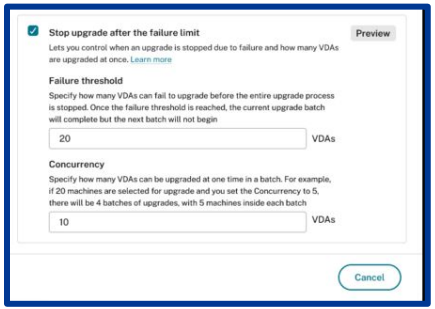
- Use when VDA internet access is regulated through the use of proxies

Local File Share Support



- In air-gapped environments, direct VDA to a local file share

Upgrade Fail-safe



- Manage the exit strategy during upgrade issues by setting concurrency levels and failure thresholds

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...and much more!

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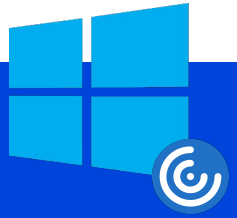
Citrix Workspace App (CWA) - Desktop



CWA for Windows

- New Installer UI for Windows 11
- Support log-off on close
- Enhanced Domain Passthrough for SSO (Preview)
- Consolidating troubleshooting options in System Tray along with Send Feedback
- Visual accessibility improvements
- Relative Mouse 2.0
- TLS 1.3 (Preview)

CWA for Mac

- Support for extending to 5 monitors in fullscreen mode
- Support for H.265 video decoding (Preview)
- FIDO2 for On-prem
- TLS 1.3 (Preview)

CWA for Linux

- 32-bit cursor, all of the color combinations
- Copy/Paste between two virtual desktops
- Keyboard import modes
- Automatically extending VDA session into secondary monitors (Preview)
- Support for
  - DPI matching
  - Multi-touch gestures
  - IPv6 UDP with DTLS
  - IPv6 TCP with TLS
  - Arm64
- FIDO2 for on-prem

Citrix Workspace App (CWA) - Mobile

CWA for Android

- Support for External USB webcams (Preview)
- Improved Multitasking using Samsung Dex (Preview)
- Day 0 support for Android 14
- Accessibility support
- Support for External USB-based microphones
- Detect and Prevent Screenshot via UEM (Preview)
- Add multiple stores and push app settings via UEM (Preview)

CWA for iOS

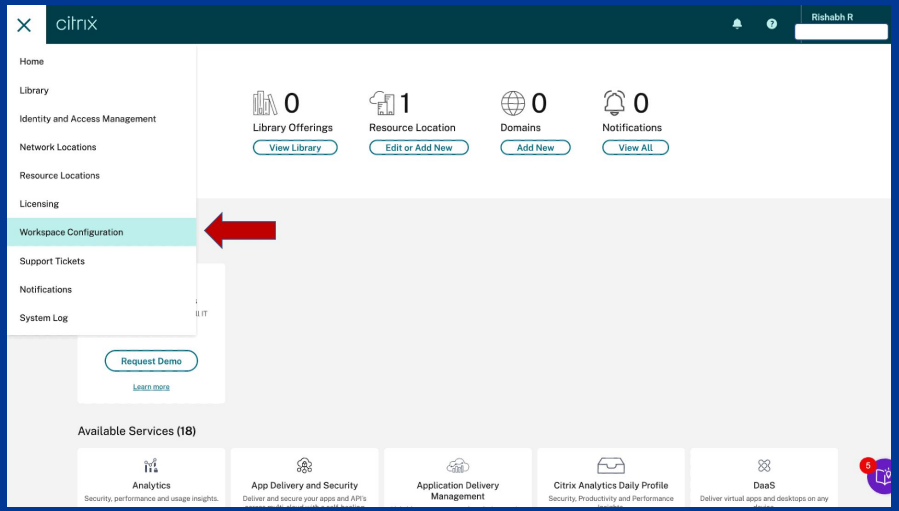
- Day 0 for iOS 17
- External webcam support (Preview)
- Accessibility (Preview)
- Airprint (Preview)
- Support for PIV/CCID Smart Cards (Preview)
- Interactive widget
- Add multiple stores and push app settings via UEM

CWA for Chrome OS/HTML5

- Zoom Optimisation
- Support for network printing
- Graphics improvements
- Gesture enhancements on Touch devices
- Improved virtual app and desktop launch experience
- Service continuity for HTML5
- Progressive web app for HTML5
- Support for QUIC for HTML5

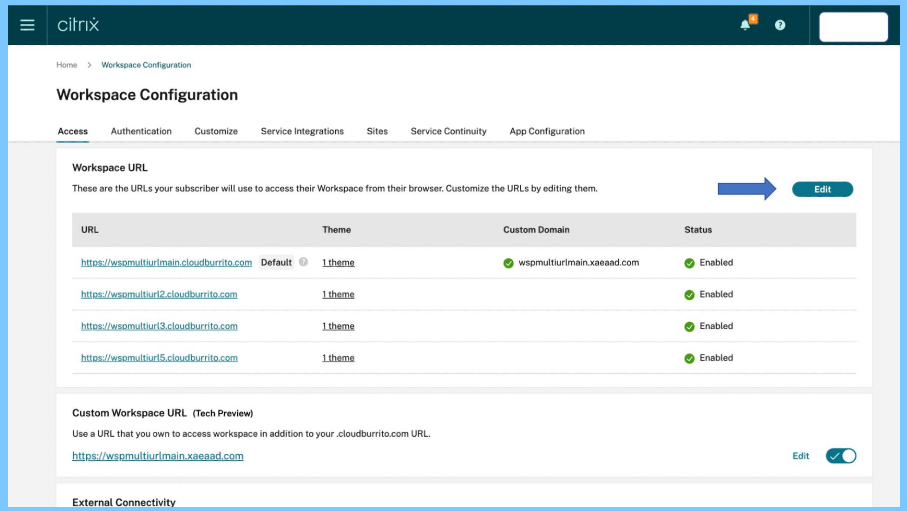
Custom Workspace URL

- Previously, all Workspace customers had to use *.cloud.com
- Enable use of company-branded domain names that are unique and easy to remember



Multiple Workspace URLs

- Use up to 10 URLs within Citrix Workspace
- Leverage branding, authentication, and resource filtering across each separate URL



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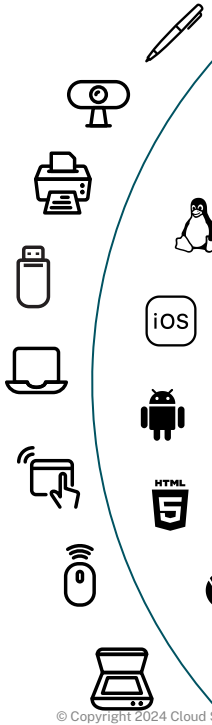
User & Endpoint

Monitoring

Apps & Desktops

End-to-End
Citrix User & Session Monitoring

Peripherals



Client Platforms

Unified Communications

RingCentral

Amazon Connect

Director & Monitor

Real-time triage
Monitor sessions
Remediate issues

Analytics

Proactive monitoring
Security & compliance
Report & Data Export

Netscaler Console

HDX Insight
Gateway Insight
Authentication Insights

Delivery Models

Operating Systems

Win Server 2008 R2
Win Server 2012 R2
Win Server 2016
Win Server 2019
Win Server 2022
Windows 11
Windows 10
Windows 7
Ubuntu
RedHat
SUSE
Debian
CentOS
Amazon Linux 2
macOS

Delivery Platforms

XenServer™
NUTANIX
vmware vSphere
Microsoft Hyper-V
Physical Systems
Azure
Google
ORACLE CLOUD
aws
vmware
IBM Cloud
amazon WorkSpaces

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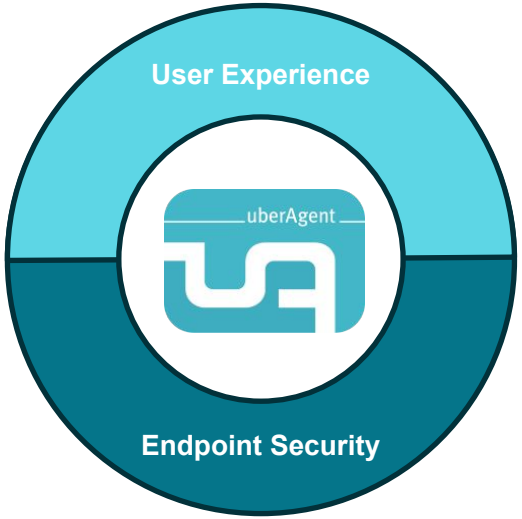
uberAgent – On-Premises and customer operated

Native Applications & System Performance

- CPU
- Memory
- Disk & Storage
- Network
- Acrobat Reader
- Web App Performance
- Per App Network Performance
- Microsoft Outlook
- Web Browser
- Client Device

Full Stack Network Monitoring

Expanding visibility into physical endpoints, installed applications and System KPI´s



Enhanced Anomaly Detection

- User Anomaly
- Risk Detection
- Industry Rule Models
- File System Monitoring
- Root Certificate Validation
- Network Monitoring
- Lateral Movement Detection
- Multi-user Windows
- Single-user Windows
- Remote PC
- Citrix DaaS & CVAD

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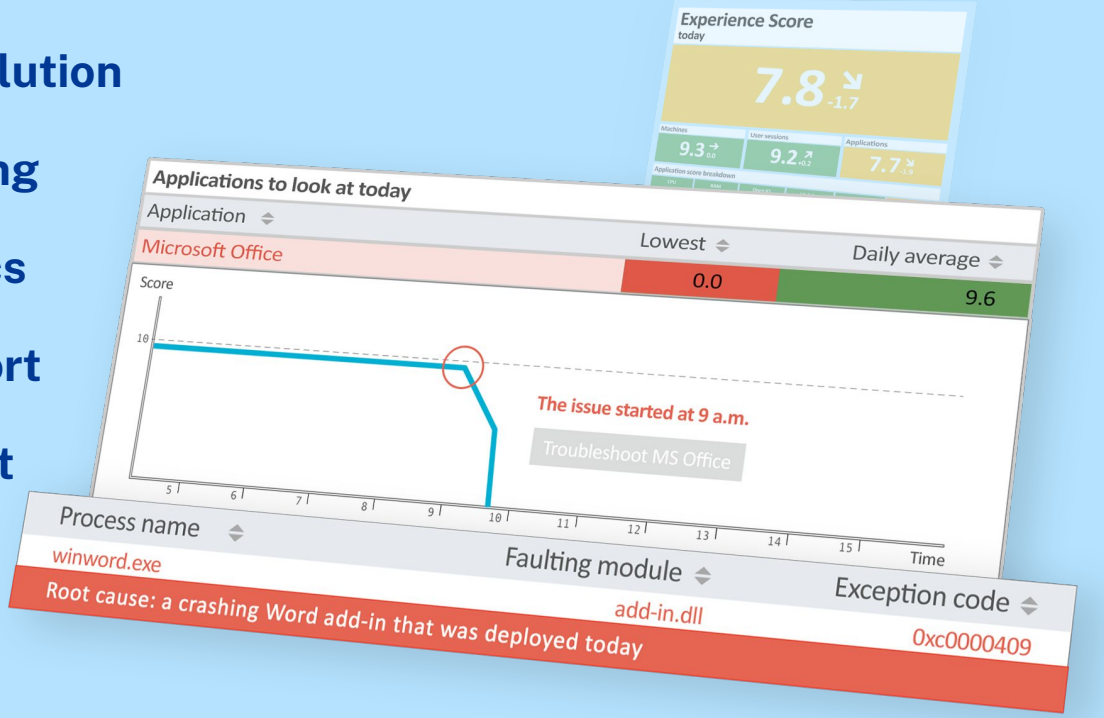
What is uberAgent

- Cutting-edge EUC monitoring solution
- UXM - User Experience Monitoring
- ESA - Endpoint Security Analytics
- Flexible backend platform support
- Highly efficient & powerful agent



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