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Citrix Virtual Apps FastTrack Training

3 days (21 hours)

Overview

Citrix Virtual Apps is a virtualization and application publishing solution offering secure, high-performance access from any terminal within hybrid or cloud architectures.

Our Citrix Virtual Apps FastTrack training course will enable you to deploy, configure and secure a production-ready environment, publish applications and desktops, and monitor quality of service with Director and WEM.

You'll implement secure exposure via NetScaler Gateway, federated authentication (SAML, FAS) and MFA, while optimizing the HDX experience and industrializing MCS/PVS images.

At the end of the course, you'll know how to administer a CVAD site, diagnose performance and guarantee continuity of service thanks to LTSR and CR best practices.

As with all our training courses, this one is based on the [latest stable version](#) and favors a practical, operational approach.

Objectives

- Understand CVAD architecture and HDX flows
- Deploy a Citrix Virtual Apps site and publish applications
- Secure remote access via Gateway and MFA
- Optimize UX with WEM and HDX policies
- Supervise and troubleshoot with Director and advanced tools

Target audience

- System & network administrators
- Infrastructure engineers

Prerequisites

- Mastery of Windows Server and Active Directory
- Notions of virtualization and networks
- Basic knowledge of security (certificates, TLS)

Citrix Virtual Apps FastTrack - Program

Overview and architecture of Citrix Virtual Apps

- Positioning Citrix Virtual Apps & Desktops (CVAD) within a hybrid IT system
- Key components: Delivery Controller, VDA, StoreFront/Workspace, Gateway
- Deployment models: on-prem, cloud, DaaS and hybrid scenarios
- Logical zone/farms/site architecture and HDX network flows
- LTSR vs. CR licenses: criteria for choosing a production license
- workshop: mapping a target architecture and its flows

Prerequisites and initial deployment

- System/network prerequisites: DNS, certificates, ports, GPO
- Installation of Delivery Controllers and VDAs (app servers)
- Creating a CVAD site and configuring Machine Catalogs
- MCS vs PVS: use cases, costs and performance
- Active Directory and StoreFront / Workspace integration
- workshop: deploying a minimal operational CVAD site

Publishing applications and desktops

- Publishing strategies: isolated apps vs. hosted desktops
- Attribution by Delivery Groups, tags and SmartAccess
- HDX policy settings (audio/video, peripherals, printing)
- Profile management: Citrix Profile Management and FSLogix
- User personalization and logon time optimization
- workshop: publishing a business application with access rules

User access: StoreFront, Workspace and authentication

- Store design, subscriptions and Workspace UI
- Identity management: AD, Azure AD, SAML, FAS (certificates)

- Single sign-on and Kerberos delegation in sessions
- HDX experience: universal printing, redirects, webcam
- Best practices for Citrix Workspace app capabilities
- Workshop: setting up a StoreFront portal and SAML authentication

Security and remote access

- Secure exposure via Citrix/NetScaler Gateway (ICA Proxy)
- MFA, nFactor, TLS hardening, ciphers, TLS 1.3
- SmartControl and Session Policies: access conditions
- Network segmentation, ZTN and EDR integration in the datacenter
- Logging and incident response: key principles
- Workshop: publishing secure remote access with MFA

Image and update management

- Golden image chain: MCS/PVS, sealing, versioning
- Managing VDA and Citrix Components updates
- Application compatibility: App Layering, isolation, MSIX package
- LTSR (CUs) vs CR governance: maintenance windows
- Compliance supervision and controlled rollback
- workshop: image pipeline and controlled VDA update

Supervision and troubleshooting

- Citrix Director: real-time views, analytics, trends
- CXA/CEF collection and SIEM integration
- HDX troubleshooting: EDT/UDP, RTT, bandwidth, printing/USB
- Analysis tools: CDFControl, Scout, HDX Monitor
- SLA methodology and major incident management
- Workshop: diagnosing and correcting a slow session

Scalability, HA and continuity

- High availability of Controllers, SQL, License Server
- Zones and Local Host Cache: SQL loss resilience
- VDA sizing: CPU/RAM/IOPS, vWS GPU if required
- Multi-site and DR/BCP strategies
- Capacity measurements and load tests
- workshop: multi-site failover plan and recovery test

Automation and operations

- PowerShell and Citrix SDK: administration as code
- WEM (Workspace Environment Management) for UX and perf
- Integration monitoring: Director APIs, Prometheus, ITSM

- SLO/SLA dashboards, runbooks and post-mortems
- Best operating practices and live documentation
- workshop: automating app creation/publishing with PowerShell

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning at training start

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.