

CITRIX ENTERPRISE DEPLOYMENT, MONITORING AND TROUBLESHOOTING COMBO (CTX-314)

Course Code: 843004

CTX-314 - Learn how to How to implement advanced administration concepts such as backups, disaster recovery, scalability, and redundancy for a Citrix Virtual Apps and Desktop Site

Designed for experienced IT professionals, this course expands the foundational administrative skills by introducing scalability, redundancy, and advanced configurations.

- You will learn to build and combine App Layers to optimize management of your app and desktop images.
- You will learn how to implement Workspace Environment Management to improve logon times, centralize user settings management, and optimize the performance of machines.
- Additionally, in this course you will learn how to use tools for monitoring and troubleshooting a CVAD environment.
- You'll learn advanced use-cases for Citrix Direct and learn about uberAgent and how to install, manage and configure Splunk, ESA and UXM dashboards and the uberAgent plug-in.
- You'll also understand core-architecture and traffic flows as they relate to common breakpoints and the tools to identify issues.

This course will replace CVAD-301.

Product Versions Covered: Citrix Virtual Apps and Desktops 2507 LTSR, App Layering 2507, and WEM 2511.

Updated June2026

What You'll Learn

After this course participants should be able to:

- Implement advanced administration concepts such as backups, disaster recovery, scalability, and redundancy for a Citrix Virtual Apps and Desktop Site
- Create, administer, and manage App Layering OS, platform, application, elastic, and user layers.
- Integrate Citrix App Layering into a Citrix Virtual Apps and Desktop deployment.

- Install and initialize WEM and integrate into Citrix Virtual Apps and Desktops and Citrix DaaS.
- Configure WEM features to improve the end user environment and virtual resource consumption.
- Migrate an on-premises WEM deployment to WEM service.
- Identify tools available for monitoring and troubleshooting Citrix Virtual Apps and Desktop.
- Examine advanced use cases for Citrix Director, including infrastructure monitoring, application probing, session recording, and integration with NetScaler Console/HDX Insight.
- Install, Configure, and Manage Citrix uberAgent.
- Understand advanced architectures and communication flows to aid with troubleshooting a Citrix Virtual Apps and Desktop Site.

Who Needs to Attend

- Citrix administrators and engineers

Prerequisites

Participants need to have a strong foundational knowledge of Windows Server and Desktop operating systems, Active Directory, Policies, Profiles, Networking and Hypervisors.

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VIRTUAL CLASSROOM LIVE

\$6,750 CAD

5 Day

Virtual Classroom Live Outline

Module 1: Intro to CVAD Advanced Configuration, Redundancy, and Scalability

- Citrix Virtual Apps and Desktops Redundancy and Scalability
- StoreFront and NetScaler Gateway
- Site Infrastructure Redundancy and Scalability
- Machines Running the Virtual Delivery Agent

Module 2: Manage CVAD Multiple Locations

- Zones
- VDA Registration in a Multi-Zone Environment
- Zone Preference
- Optimal Gateway Routing and Zones
- StoreFront Resource Aggregation
- Managing StoreFront Store Subscriptions in a Multi-Location Environment

Module 3: Backups and Disaster Recovery

- Backups
- Disaster Recovery Considerations
- Disaster Recovery Process

Module 4: Intro to WEM Architecture Components

- WEM Features and Benefits
- WEM On-Premises Components and Deployments
- WEM Service Components and Deployments
- WEM Component Communication Workflows
- WEM Service Component Communication Workflows

Module 5: WEM Deployment and Initial Installation

- On-premises WEM: Leading Practice Installation Prerequisites and Steps
- Creating the WEM Database

- Running the WEM Infrastructure Service Configuration Utility
- WEM On-Premises vs WEM Service
- WEM Service: Leading Practice Installation Prerequisites and Steps
- ADMX Template Configuration
- WEM Agent Installation
- WEM Consoles
- WEM Initial Setup

Module 6: WEM System and Log On Optimization

- WEM System Optimization Overview
- WEM CPU Management
- WEM Memory Management
- Additional System Optimization Features
- WEM Log On Optimization Overview
- WEM Assigned Actions
- WEM Environmental Settings
- Citrix Profile Management In WEM

Module 7: WEM Security and Lockdown Features

- WEM Security Management Features
- Privilege Elevation and Process Hierarchy Control
- WEM Transformer

Module 8: The WEM Agent

- WEM Settings Processing and WEM Agent Caches
- WEM Agent Integration with Citrix Virtual Apps and Desktops and Citrix DaaS

Module 9: WEM Monitoring, Reporting, and Troubleshooting

- WEM Monitoring and Reporting
- WEM On-Premises Troubleshooting
- WEM Service Troubleshooting
- WEM Agent Troubleshooting

Module 10: Upgrading WEM and Migration to WEM Service

- Upgrading Workspace Environment Management
- WEM On-Premises Migration to WEM Service

Module 11: Intro to App Layering and Architecture Overview

- Citrix App Layering Introduction
- Citrix App Layering Architecture

Module 12: OS, Platform, and App Layers

- The OS Layer
- The Platform Layer
- The App Layers

Module 13: Elastic App and User Layers

- Elastic App Layers
- User Layers

Module 14: Layer Priority and Maintaining an App Layering Environment

- Layer Priority
- Updating Layers
- Maintaining and Updating the App Layering Environment
- Common Citrix App Layering Considerations and Additional Resources

Module 15: Citrix Tools for Monitoring, Troubleshooting, and Automation

- Introduction to Support a Citrix Virtual Apps and Desktops Site
- Tools for Monitoring and Troubleshooting
- Tools for Automation

Module 16: Monitoring CVAD with Citrix Director

- Citrix Director Introduction
- Monitor and Interact with Users Sessions
- Infrastructure Monitor
- Application and Desktop Probing
- Cost Optimization
- Citrix Director and NetScaler Gateway

Module 17: Activity Monitoring with Session Recording

- Session Watermark
- Session Recording

Module 18: Citrix Director and NetScaler Console Integration

- Introduction to NetScaler Console
- Insight Monitoring
- Integrate Citrix Director with NetScaler Console

Module 19: Install, Configure, and Manage Citrix uberAgent

- Introduction to Citrix uberAgent
- Splunk
- Architecture Overview
- Architecture Deep Dive
- Installing and Configuring uberAgent
- uberAgent - Endpoint Configuration
- Dashboards
- Alert and Reporting
- Logging and Troubleshooting

Module 20: Introduction to Troubleshooting

- Introduction to PowerShell
- Architecture and Communication

Module 21: Troubleshoot Access Issues

- Troubleshooting StoreFront
- Troubleshooting NetScaler Gateway
- Troubleshooting Access and Authentication
- Troubleshooting App/Desktop Launch

Module 22: Troubleshoot Delivery Controller Issues

- Validating FlexCast Management Architecture (FMA) Services

Module 23: Troubleshoot Virtual Delivery Agent (VDA) Registration Issues

- Troubleshooting VDA Registration

Module 24: Troubleshoot HDX Connections

- Troubleshooting HDX Connections
- Installing Scout EMS, ELIAS, and Scout Board

Virtual Classroom Live Labs

- Labs are provided by Layer8 Training for this course

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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