

CWS-315 Citrix Virtual Apps and Desktops 7 Advanced Deployment, Troubleshooting, Security and Administration

Course Summary

Description

Designed to learn how to set up scalability, redundancy and security configurations. You will learn advance features to optimize management of your app and desktop images by building and combining App Layers and Workspace Environment Management, which can improve logon times, centralize user settings management, optimize the performance of machines running the Virtual Delivery Agent (VDA).

In the advanced troubleshooting section, you will learn techniques to investigate many of the common issues that can affect environment health. You'll leave this course with a good understanding of how to manage more complex solutions such as multizone environments spanning multiple locations with configurations around StoreFront, the Delivery Controllers, and HDX.

Objectives

By the end of this course, students will be able to:

- Implement advanced administration concepts such as backups, disaster recovery, scalability and redundancy consideration for a Citrix Virtual Apps and Desktop 7 Site
- Configure Workspace Environment Management to improve the end user environment and virtual resource consumption
- Implement App Layering skills, for example how to create and administer OS, platform, application, elastic and user layers
- Use Advanced troubleshooting techniques to troubleshoot Citrix Apps and Desktop 7
- Apply Security considerations and configurations for Citrix Apps and Desktop 7 site including multi-site management using zones

Topics

- Implementing Redundancy and Scalability
- Managing a Virtual Apps and Desktops Environment with Multiple Locations Zones
- Implementing Backups and Disaster Recovery
- Implementing Advanced Authentication Methods
- Improving App and Data Security
- Securing Machines Running the Virtual Delivery Agent
- Introduction to Troubleshooting
- Troubleshooting Access Issues
- Troubleshooting Delivery Controller Issues
- Troubleshooting VDA Registration Issues
- Troubleshooting HDX Connection Issues
- Introduction to App Layering
- Creating an OS Layer
- Creating a Platform Layer
- Creating App Layers
- Creating Elastic App and User Layers
- Deploying a Layered Image using Citrix Virtual Apps and Desktops
- Exploring Layer Priority
- Maintaining an App Layering Environment
- Introduction to Workspace Environment Management (WEM)

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Course Summary

- Using WEM to Centralize Environment Management
- Using WEM for Performance Optimization
- Using WEM to Secure Environments
- Migrating and Upgrading WEM

Audience

Built for experienced IT Professionals familiar with Citrix Virtual Apps and Desktops 7 in an on-premises environment or Citrix Cloud looking to expand their Citrix Virtual Apps and Desktops skills to an advanced level. Potential students include administrators or engineers responsible for the Citrix Apps and Desktop 7 Site.

Prerequisite

- Strong foundational knowledge of Citrix Virtual Apps and Desktops 7.
- Citrix recommends students prepare for this course by taking the following course: CWS-215 Citrix Virtual Apps and Desktops 7 Administration On-Premises and in Citrix Cloud.

Duration

Five Days

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Course Outline

- I. **Implementing Redundancy and Scalability**
 - A. StoreFront and Citrix Gateway
 - B. Site Infrastructure
 - C. Machines Running the Virtual Delivery Agent
- II. **Managing a Virtual Apps and Desktops Environment with Multiple Locations Zones**
 - A. VDA Registration in a Multi-Zone Environment
 - B. Zone Preference
 - C. Optimal Gateway Routing and Zones
 - D. Managing StoreFront Store Subscriptions in a Multi-Location Environment
 - E. StoreFront and Citrix ADC Branding
- III. **Implementing Backups and Disaster Recovery**
 - A. Backups
 - B. Disaster Recovery Considerations
 - C. Disaster Recovery Process
- IV. **Implementing Advanced Authentication Methods**
 - A. Multi-factor Authentication - RADIUS & OTP
 - B. Multi-factor Authentication - Smart Card Authentication
 - C. Federated Authentication - ADFS, SAML, and FAS
- V. **Improving App and Data Security**
 - A. Introduction to Application Security
 - B. Preventing Jailbreak Attacks
 - C. Minimizing the Impact of Attacks
- VI. **Securing Machines Running the Virtual Delivery Agent**
 - A. TLS to VDA Encryption
 - B. GPOs and Citrix Policies
 - C. Image Management
 - Troubleshooting techniques and tools
- VII. **Introduction to Troubleshooting**
 - A. Troubleshooting Methodology Process (Standard Slide)
 - B. Resource Tools and Utilities
 - C. Introduction to PowerShell
- VIII. **Troubleshooting Access Issues**
 - A. Troubleshooting StoreFront
 - B. Troubleshooting Citrix Gateway
- IX. **Troubleshooting Delivery Controller Issues**
 - A. Validating FMA Services
- X. **Troubleshooting VDA Registration Issues**
 - A. Troubleshooting VDA Registration
- XI. **Troubleshooting HDX Connection Issues**
 - A. Troubleshooting HDX Connections
- XII. **Introduction to App Layering**
 - A. App Layering Introduction
 - B. Architecture and How it Works
- XIII. **Creating an OS Layer**
 - A. The OS Layer
- XIV. **Creating a Platform Layer**
 - A. The Platform Layer
- XV. **Creating App Layers**
 - A. The App Layers Module
- XVI. **Creating Elastic App and User Layers**
 - A. Elastic App Layering
 - B. User Layers
- XVII. **Deploying a Layered Image using Citrix Virtual Apps and Desktops**
 - A. Using Templates in App Layering
 - B. Using Layered Images in a Citrix Virtual Apps and Desktops Site

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Course Outline (cont.)

XVIII. Exploring Layer Priority

- A. Layer Priority

XIX. Maintaining an App Layering Environment

- A. Updating Layers
- B. Maintaining and Updating the App Layering Environment
- C. Common App Layering Considerations and Additional Resources

XX. Introduction to Workspace Environment Management (WEM)

- A. Workspace Environment Management (WEM) Introduction
- B. WEM Administration

XXI. Using WEM to Centralize Environment Management

- A. Managing User Resources with WEM
- B. Managing Profiles with WEM
- C. Managing Endpoints with the WEM Transformer Feature

XXII. Using WEM for Performance Optimization

- A. Optimizing Machine Performance with WEM
- B. Optimizing User Experience with WEM

XXIII. Using WEM to Secure Environments

- A. WEM Security Features

XXIV. Migrating and Upgrading WEM

- A. Migrating to WEM
- B. Upgrading a WEM Deployment
- C. WEM Multi-Location Considerations