QUICKSTART

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Learning Style: Virtual Classroom

Provider: Citrix

Difficulty: Advanced

Course Duration: 5 Days

Citrix Virtual Apps and Desktops 7 Advanced Administration (CWS-315)

About this Course:

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.

Course Objectives:

- 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

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.

Prerequisites:

- 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

Course Outline:

Implementing Redundancy and Scalability

- StoreFront and Citrix Gateway
- Site Infrastructure
- Machines Running the Virtual Delivery Agent

Managing a Virtual Apps and Desktops Environment with Multiple Locations Zones

- VDA Registration in a Multi-Zone Environment
- Zone Preference
- Optimal Gateway Routing and Zones
- Managing StoreFront Store Subscriptions in a MultiLocation Environment
- StoreFront and Citrix ADC Branding

Implementing Backups and Disaster Recovery

- Backups
- Disaster Recovery Considerations
- Disaster Recovery Process

Implementing Advanced Authentication Methods

- Multi-factor Authentication - RADIUS & OTP
- Multi-factor Authentication - Smart Card Authentication
- Federated Authentication - ADFS, SAML, and FAS

Improving App and Data Security

- Introduction to Application Security
- Preventing Jailbreak Attacks
- Minimizing the Impact of Attacks

Securing Machines Running the Virtual Delivery Agent

- TLS to VDA Encryption
- GPOs and Citrix Policies
- Image Management Troubleshooting techniques and tools

Introduction to Troubleshooting

- Troubleshooting Methodology Process (Standard Slide)
- Resource Tools and Utilities
- Introduction to PowerShell

Troubleshooting Access Issues

- Troubleshooting StoreFront
- Troubleshooting Citrix Gateway

Troubleshooting Delivery Controller Issues

- Validating FMA Services

Troubleshooting VDA Registration Issues

- Troubleshooting VDA Registration

Troubleshooting HDX Connection Issues

- Troubleshooting HDX Connections

Introduction to App Layering

- App Layering Introduction
- Architecture and How it Works

Creating an OS Layer

- The OS Layer

Creating a Platform Layer

- The Platform Layer

Creating App Layers

- The App Layers Module

Creating Elastic App and User Layers

- Elastic App Layering
- User Layers

Deploying a Layered Image using Citrix Virtual Apps and Desktops

- Using Templates in App Layering
- Using Layered Images in a Citrix Virtual Apps and Desktops Site

Exploring Layer Priority

- Layer Priority

Maintaining an App Layering Environment

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

Introduction to Workspace Environment Management (WEM)

- Workspace Environment Management (WEM) Introduction
- WEM Administration

Using WEM to Centralize Environment Management

- Managing User Resources with WEM
- Managing Profiles with WEM
- Managing Endpoints with the WEM Transformer Feature

Using WEM for Performance Optimization

- Optimizing Machine Performance with WEM
- Optimizing User Experience with WEM

Using WEM to Secure Environments

- WEM Security Features

Migrating and Upgrading WEM

- Migrating to WEM
- Upgrading a WEM Deployment
- WEM Multi-Location Considerations

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