



Designing App and Desktop Solutions with Citrix XenApp and XenDesktop

Duration: 5 Days **Course Code: CXD-400**

Overview:

All Citrix courses now include an exam voucher where relevant.

This course provides students with the ability to successfully assess and design a XenApp and/or XenDesktop virtualization solution based on the top key projects and architectures that a majority of Citrix customers implement, across different industries and use cases. Students may also have an opportunity to build a design for their organization and will have access to all of the tools and reference materials required to support their work.

Target Audience:

This course is recommended for desktop virtualization solution designers such as Architects, Consultants, and Engineers.

Objectives:

- Identify the various components and communication protocols of the XenApp/XenDesktop architecture
 - Apply architectural understanding to desktop virtualization solutions
 - Conduct an organizational assessment focusing on business capabilities and requirements, applications, and users
 - Design desktop virtualization solutions
 - Verify and present design recommendations
 - Troubleshoot desktop virtualization designs
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Prerequisites:

- Intermediate knowledge of Citrix Desktop Virtualization Components/Concepts
- Basic understanding of project management and documentation best practices
- Basic presentation skills
- Windows Server Knowledge (Windows Server 2012 R2) including
 - Active Directory
 - DHCP
 - Basic Networking Knowledge
- SQL Server - General understanding of databases, permissions, security, high availability
- General understanding of physical and virtual storage
- NAS, SAN, SSD
- CIFS
- Familiarity with hypervisor technologies (XenServer, Hyper-V, or vSphere)
- Completed XenApp and/or XenDesktop Introduction and Deploying courses or can demonstrate equivalent knowledge.

Testing and Certification

- In addition to field experience, this course prepares candidates for the Citrix Certified Expert – Virtualization exam based on architecting, assessing, and designing.
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Content:

Module 1: Architecture

- Identify the various components included in the XenApp/XenDesktop architecture
- Determine how the various components communicate and which protocols they are using
- Apply architectural understanding to desktop virtualization solutions
- Troubleshoot desktop virtualization design

Module 2: Business Drivers

- Identify specific business drivers for multiple verticals
- Facilitate a discussion with the project team at an organization to prioritize business drivers

Module 3: Data Capture

- Identify best strategy for data collection given a specific organizational environment.
- Identify the types of application data to collect, the method for collecting them, and application data collection tools

Module 4: User Segmentation

- Identify the different FlexCast models
- Identify considerations in selecting the most appropriate method for segmenting users

Module 5: Application Assessment

- Understand the process of application assessment
- Demonstrate rationalization of applications in a given case organization
- Assess a suite of applications based on business needs and compatibility to a given XenApp/XenDesktop delivery model.

Module 6: Project Management

- Understand the importance of project management for a successful implementation
- Identify roles for a project plan

Module 7: User Design

- Make key decisions regarding user groups and device (endpoint) design
- Organize user groups for Design document
- Identify and prioritize top user issues
- Design user profile strategy
- Design a printing strategy

Module 8: Receiver

- Define how applications will be delivered
- Design Citrix Receiver deployment and maintenance

Module 9: Resource Req. Recommendations

- Identify recourse requirements
- Make key design decisions regarding resource recommendations

Module 10: Access

- Design an authentication point strategy
- Determine session and access policies, including user authentication and remote access
- Design virtual desktop operating systems access
- Calculate bandwidth for the desktop virtualization solution

Module 11: Desktop

- Make key design decisions regarding machine catalogs and groups
- Design a personalization strategy including user profiles, user policies and personal vDisk usage.
- Design an appropriate printing strategy

Module 12: Application Delivery

- Design a solution that meets application inventory and integration requirements
- Identify characteristics of the applications that will impact placement as well as the application delivery architecture for the XenApp/XenDesktop environment
- Design an application delivery strategy

Module 13: Desktop Delivery

- Design a Desktop delivery topology, including Sites, XenDesktop Controllers per site, and load balancing
- Design the underlying infrastructure, including database selection, license servers and Active Directory Integration
- Identify the XenDesktop user and virtual desktop baseline policies

Module 14: Networking Layer

- Make key high availability design decisions
- Integrate the XenApp/XenDesktop infrastructure with the network infrastructure
- Understand WAN optimization, Multistream ICA, and DHCP functionality

Module 15: Storage and Provisioning Layer

- Make key design decisions regarding storage solutions
- Identify the features and differences between PVS and MCS
- Design a provisioning strategy with either PVS or MCS

Module 16: Platform Layer

- Make key design decisions regarding the hypervisor to be used in desktop virtualization solutions
- Make accurate hardware calculations, including VDI hardware, shared hardware, application hardware, and control hardware

Module 17: Operational

- Understand potential migration approaches
- Design a system monitoring strategy
- Make key design decisions regarding application delivery
- Migration approach
- Backup and System Monitoring
- Backup
- System Monitoring

Module 18: Verification

- Verify assess and design decisions using Citrix online tools
- Develop a complete stakeholder presentation
- Effectively present and support design decisions
- Capstone Exercise

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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