

Course 20336B: Core Solutions of Microsoft® Lync® Server 2013 **NEW!**

Five Days, Instructor-Led

About this course

This instructor-led course teaches IT professionals how to plan, design, deploy, configure, and administer a Microsoft Lync Server 2013 solution. The course emphasizes Lync Server 2013 Enterprise Unified Communications features with particular emphasis on coexisting with and migrating from legacy communication services. The labs in this course create a solution that includes IM and Presence, Conferencing, and Persistent Chat. This course helps the student prepare for Exam 70-336.

Audience profile

This course is intended for IT consultants and telecommunications consulting professionals who design, plan, deploy, and maintain solutions for unified communications (UC). Candidates should be able to translate business requirements into technical architecture and design for a UC solution.

At course completion

After completing this course, students will be able to:

- Describe the overall server and client Lync Server 2013 architecture.
- Describe Lync 2013 features and user scenarios.
- Describe the Lync Server deployment process.
- Describe the components of a Lync Server 2013 Design.
- Plan for Microsoft Solutions Framework for Lync 2013.
- Plan Infrastructure Requirements for Lync Server 2013.
- Use the Lync Server 2013 Planning Tool.
- Use Topology Builder.
- Plan for Site Topology.
- Design a Site Topology.
- Plan the Server Infrastructure.
- Design Documentation Using Microsoft Office.
- Use Lync Server 2013 management interfaces.
- Configure Role-Based Access Control.
- Prepare for client deployment.
- Deploy and manage clients.
- Prepare for device deployment.
- Deploy and manage Internet Protocol (IP) phones.
- Describe conferencing in Lync Server 2013.
- Describe dial-in conferencing in Lync Server 2013.
- Manage and administer dial-in conferencing in Lync Server 2013.
- Describe the conferencing capabilities of Lync Server 2013.
- Design audio and video for web conferencing.
- Plan for instant message and presence Federation.
- Design Edge services.
- Describe the features and concepts for Persistent Chat in Lync Server 2013.
- Design Lync Server 2013 to include Persistent Chat.
- Deploy and configure Persistent chat in Lync Server 2013.

- Describe the Archiving service.
- Describe the Monitoring service.
- Configure the Archiving and Monitoring services.
- Describe and use the Lync Server 2013 troubleshooting tools.
- Describe the required daily, weekly, and monthly maintenance tasks.
- Describe the fundamental troubleshooting approach to Lync Server 2013 issues.
- Use SIP commands and analyze SIP logs.
- Describe high availability in Lync Server 2013.
- Configure High Availability features in Lync Server 2013.
- Plan for load balancing in Lync Server 2013.
- Design load balancing in Lync Server 2013.
- Describe the high availability options in Lync Server 2013.
- Describe the tools for backing up and restoring Lync Server 2013 data.
- Backup and restore critical Lync Server 2013 data.
- Export and import critical Lync Server 2013 data.
- Describe design considerations for branch site scenarios.
- Describe the migration process.
- Describe migration and coexistence topologies.
- Plan for client and device migration.
- Design a software deployment strategy for Lync 2013.

Pre-requisites

Before attending this course, students must have:

- Experience managing software in a Windows 2008 R2 enterprise server or Windows Server 2012 environment
- Experience managing an application remotely using Windows PowerShell 3.0
- Familiarity with managing and configuring databases
- An introduction to Active Directory Domain Services

Course Outline

Module 1: Architecture and Design Approach for Microsoft Lync Server 2013

This module will help you to plan and design a Lync Server 2013 implementation that meets organizational and user needs. This module equips you with knowledge about Lync Server 2013 key features and functionality and introduces you to Microsoft Solutions Framework (MSF), which recommends a structured approach to project management and execution.

Lessons

- Overview of Lync Server 2013 Architecture

- Overview of Lync Server 2013 Core Capabilities
- Introduction to the Lync Server 2013 Design Process
- Assessing Infrastructure Requirements and Updating the Design
- Planning for all Microsoft Solutions Framework Phases

After completing this module, students will be able to:

- Describe the overall server and client Lync Server 2013 architecture.
- Describe the features and user scenarios of Lync 2013.
- Describe the deployment process of Lync Server 2013.
- Describe the components of a Lync Server 2013 design.
- Plan for Microsoft Solutions Framework for Lync 2013.

Module 2: Designing a Lync Server 2013 Topology

This module explains how to design a complex Microsoft Lync Server 2013 topology including defining network sites and network regions, and sizing and placing server roles.

Lessons

- Planning Infrastructure Requirements for Lync Server 2013
- Using the Lync Server 2013 Planning Tool
- Using Topology Builder
- Planning the Server Infrastructure
- Designing Documentation Using Microsoft Office

Lab : Preparing the Environment and Deploying a Lync Server 2013 Pool

- Preparing for Lync Server 2013
- Configuring a Lync Server 2013 Topology
- Publishing the Topology
- Configuring Domain Name Server (DNS)
- Deploying the Front-End Server Role
- Configuring Exchange UM and Enabling Users (optional lab exercise)

After completing this module, students will be able to:

- Plan the infrastructure requirements for Lync Server 2013.
- Use the Lync Server 2013 Planning Tool.
- Use Topology Builder.
- Plan for site topology.
- Design the site topology.
- Plan the server infrastructure.
- Design the documentation by using Microsoft Office.

Module 3: Configuring Users and Rights in Microsoft Lync Server 2013

The purpose of this module is to introduce you to the methods available for configuring and managing users in Microsoft Lync Server 2013. You will learn about the configuration management options in Lync Server 2013, including the Lync Server Control Panel and the Lync Server Management Shell.

Lessons

- Managing Lync Server 2013
- Introduction to Role Based Access Control

Lab : Configuring Users and Rights in Lync Server 2013

- Start the virtual machines for the lab
- Using the Lync Server Management Shell
- Configuring Role-Based Access Control

After completing this module, students will be able to:

- Use Lync Server 2013 management interfaces.
- Configure role-based access control.

Module 4: Client and Device Deployment and Management

Microsoft Lync Server 2013 introduces new ways of creating and defining client and user policies, as well as new procedures for deploying clients and devices. In this module, you will learn how to plan for introducing Lync Server 2013 clients into your network and the various phone devices that

are supported. You will also learn how to effectively manage the desktop clients and devices.

Lessons

- Prepare for client deployment.
- Deploy and manage clients.
- Prepare for device deployment.
- Deploy and manage IP phones.

Lab : Client and Device Management

- Starting the virtual machines
- Creating and Assigning Client Policies
- Creating and Assigning Device Policies
- Configuring a Device Update
- Creating and Assigning Mobile Device Policies

After completing this module, students will be able to:

- Prepare for client deployment.
- Deploy and manage clients.
- Prepare for device deployment.
- Deploy and manage IP phones.

Module 5: Conferencing in Lync Server 2013

Conferencing is a core feature of Microsoft Lync Server 2013. This module introduces conferencing in Lync Server 2013, discusses dial-in conferencing in Lync Server 2013, and describes how to manage and administer conferencing policies.

Lessons

- Introduction to Conferencing in Lync Server 2013
- Designing for Audio\Video and Web Conferencing
- Dial-In Conferencing in Lync Server 2013
- Managing and Administering Conferencing

Lab : Conferencing in Microsoft Lync Server 2013

- Deploying Lync Server 2013 Conferencing—Installing Office Web App Server
- Configuring Dial-in Conferencing
- Configuring Conferencing Policies
- Experiencing Lync Server 2013 Conferencing

After completing this module, students will be able to:

- Describe conferencing in Lync Server 2013.
- Describe dial-in conferencing in Lync Server 2013.
- Manage and administer dial-in conferencing in Lync Server 2013.

Module 6: Designing and Deploying External Access

This module discusses how to design the Microsoft Lync Server 2013 external access components and capabilities so that it meets the organization's needs. This module also discusses how you can design a solution for external scenarios that support a variety of internal and external users connected to the Internet, to their corporate network or to a public switched telephone network (PSTN).

Lessons

- Conferencing and External Capabilities of Lync Server 2013
- Planning for IM and Presence Federation
- Designing Edge Services

Lab : Designing and Deploying for External Scenarios

- Defining the Edge Server in the Topology
- Deploying Edge Server and Configuring Remote Access
- Validating the Edge Server

After completing this module, students will be able to:

- Describe the conferencing capabilities of Lync Server 2013.

- Design audio and video for web conferencing.
- Plan for instant message and presence federation.
- Design Edge Services.

Module 7: Deploying Microsoft Lync Server 2013 Persistent Chat

This module describes how to plan, design and deploy Lync Server 2013 Persistent Chat to the enterprise. It describes the fundamental process required to create and manage a Lync Server 2013 Persistent Chat room.

Lessons

- Overview of Persistent Chat Architecture in Lync Server 2013
- Designing Lync Server 2013 Persistent Chat
- Deploying and Configuring Lync Server 2013 Persistent Chat

Lab : Deploying Persistent Chat Server

- Defining a Persistent Chat Topology
- Installing Persistent Chat and Compliance Service
- Configuring and Using Persistent Chat Rooms

After completing this module, students will be able to:

- Describe the features and concepts for Persistent Chat in Lync Server 2013.
- Design Lync Server 2013 to include Persistent Chat.
- Deploy and configure Persistent Chat in Lync Server 2013.

Module 8: Monitoring and Archiving

This module discusses the features and configuration of both the Monitoring and Archiving services. You will learn how to interpret the QoE reports and use this information to better manage and deliver a high-quality user experience for Lync Server 2013.

Lessons

- The Archiving Service
- The Monitoring Service
- Configuring Archiving and Monitoring

Lab : Configuring and Using Archiving and Monitoring in Lync Server 2013

- Configuring Lync Archiving to Exchange 2013
- Configuring the Monitoring Server Role and the Lync Server Monitoring Reports
- Exploring the Lync Server Monitoring Reports

After completing this module, students will be able to:

- Describe the Archiving service.
- Describe the Monitoring service.
- Configure the Archiving and Monitoring services.

Module 9: Administration and Maintenance of Lync Server 2013

This module introduces Lync Server 2013 administration tools and operational best practices needed to maintain Lync Server 2013 in the enterprise. It will also introduce basic techniques and tools to help when troubleshooting Lync Server 2013.

Lessons

- Introduction to Lync Server 2013 troubleshooting tools
- Understanding Lync Server 2013 Operational Tasks
- Developing Lync Server 2013 Troubleshooting Techniques

Lab : Administration and Maintenance of Lync Server 2013

- Reviewing Lync Server 2013 Maintenance/Operational Tasks (Paper-based lab)

- Reviewing Lync Server 2013 Administration Tools
- Enabling the Centralized Logging Service
- Introduction to analyzing Lync Server 2013 logs and traces

After completing this module, students will be able to:

- Describe and use the Lync Server 2013 troubleshooting tools.
- Describe the daily, weekly, and monthly maintenance tasks.
- Describe the fundamental troubleshooting approach to Lync Server 2013 issues.
- Use SIP commands and analyze SIP logs.

Module 10: High Availability in Lync Server 2013

This module describes the requirements for high availability with Lync Server 2013. Finally, this module discusses how to plan and design for load balancing with Lync Server 2013.

Lessons

- High Availability in Lync Server 2013
- Configuring High Availability in Lync Server 2013
- Planning for Load Balancing
- Designing Load Balancing

Lab : Configuring High Availability in Lync Server 2013

- Configuring Database Mirroring
- Experiencing a Scheduled SQL Server Outage
- Experiencing an Unscheduled SQL Server Outage

After completing this module, students will be able to:

- Describe high availability in Lync Server 2013.

- Configure high availability features in Lync Server 2013.
- Plan for load balancing in Lync Server 2013.
- Design load balancing in Lync Server 2013.

Module 11: Disaster Recovery in Lync Server 2013

This module describes new disaster recovery features in Lync Server 2013. This module also discusses the tools and methods for successfully backing up and restoring a Lync Server 2013 environment, as well as how to back up and restore, and export and import, critical Lync Server 2013 data. Finally, this module discusses designing for Branch Site Resiliency in Lync Server 2013.

Lessons

- Disaster Recovery in Lync Server 2013
- Tools for Backing Up and Restoring Lync Server 2013
- Critical Lync Server 2013 Data to Back Up and Restore
- Critical Lync Server 2013 Data to Export and Import
- Designing Branch Site Resiliency

Lab : Configuring Disaster Recovery in Lync Server 2013

- Configure Pool Pairing
- Experiencing a Pool Failure or Outage

After completing this module, students will be able to:

- Describe the high availability options in Lync Server 2013.
- Describe the tools for backing up and restoring Lync Server 2013 data.
- Backup and restore critical Lync Server 2013 data.

- Export and import critical Lync Server 2013 data.
- Describe the design considerations for branch site scenarios.

Module 12: Planning a Migration to Lync Server 2013

In this module, you will learn about coexistence and migration to Microsoft Lync Server 2013. You will also learn how to design the infrastructure migration strategy and the migration strategy for Lync Server 2013 clients and devices.

Lessons

- Overview of Coexistence and Migration
- Migration Steps

- Planning for Clients and Devices
- Designing a Client Migration and Device Migration Strategy

Lab : Planning a Migration to Lync Server 2013 (Paper-based)

- Creating a Migration Plan
- Documenting the Migration Phases

After completing this module, students will be able to:

- Describe the migration process.
- Describe migration and coexistence topologies.
- Plan for device support and device requirements.
- Design a software deployment strategy

Course Inclusions:

- Microsoft Official Curriculum (MOC) and/or Wizards Learning Courseware (WLC)
- Microsoft Certified Trainer (MCT)
- Lunch, AM and PM Snacks
- Certificate of Achievement
- Course Note