

Outlined below is the Server Academy course curriculum as of August 19 2020.

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Module 1: Installing and Configuring Windows Server

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- 1.1.3 Curriculum Overview
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- 1.2.4 Different Versions of Windows Server (PowerPoint Download)
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- 1.4.2 Windows Server Upgrade Paths and Pre-upgrade Checklist
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1.5 Windows Server Storage Solutions

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- 1.5.3 Volumes and Partitions
- 1.5.4 File Systems
- 1.5.5 Storage Allocation Units
- 1.5.6 Initializing a Disk and Creating a Volume
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1.5.8 Lab: Initialize a disk and configure a volume

1.6 Windows Server Backup

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- 1.6.3 Installing The Windows Server Backup Feature
- 1.6.4 Creating a One-Time Backup
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- 1.6.6 Windows Server Backup Quiz
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1.7 Course Conclusion

- 1.7.1 Help Us Improve This Course!
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Module 2: Active Directory & Identity with Windows Server

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- 2.1.2 Course Overview

2.2 Getting Started with Active Directory Domain Services

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2.3 Introduction to Active Directory Users & Computers

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- 2.3.2 Creating User Accounts with Active Directory

- 2.3.3 Searching for Objects in Active Directory
- 2.3.4 Resetting User Passwords in Active Directory Users and Computers
- 2.3.5 Understanding Groups and Memberships
- 2.3.6 Disabling and Deleting User Accounts
- 2.3.7 Active Directory Quiz
- 2.3.8 Lab: Active Directory Users and Computers

2.4 Active Directory Backups

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- 2.4.2 Restoring an Active Directory Backup
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- 2.5.2 Section Overview
- 2.5.3 Promoting Our Second Domain Controller
- 2.5.4 Flexible Single Master Operation (FSMO) Roles Overview
- 2.5.5 Transferring FSMO (Flexible Single Master Operations) Roles
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- 2.6.1 Enabling Script Execution for PowerShell
- 2.6.2 Listing AD Users with PowerShell
- 2.6.3 Creating AD Users with PowerShell
- 2.6.4 CreateADUser.zip
- 2.6.5 NewUsers.csv
- 2.6.6 Creating User Accounts from a CSV (Comma Separated Value) File
- 2.6.7 CreateADUsersFromCSV.ps1 (Solution Script)
- 2.6.8 Move All Disable Users to "Disabled Users OU" with PowerShell

- 2.6.9 CreateADUsersFromCSV_expanded.zip
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2.7 Administrating AD SS (Active Directory Sites and Services)

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- 2.7.2 Configuring Our ITFROUTE01 Server to act as a Router
- 2.7.3 Configuring Active Directory Sites and Services
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2.8 Windows Trusts

2.8.1 Window Trusts Explained

2.9 Modifying the Active Directory Schema

- 2.9.1 Add Custom Attributes to Active Directory Users
- 2.9.2 Active Directory Schema Quiz

Module 3: Group Policy & Security with Windows Server

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3.1.1 Course Prerequisites

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- 3.2.2 Creating and Managing GPOs
- 3.2.3 Group Policy Precedences
- 3.2.4 Editing Group Policy Object Settings
- 3.2.5 Group Policy Management Quiz
- 3.2.6 Lab: Group Policy Management

3.3 Group Policy Troubleshooting

- 3.3.1 Troubleshooting Group Policy with MMC (RSOP.msc Resultant Set of Policy)
- 3.3.2 Troubleshooting Group Policy with Command Prompt (GPResult /r)
- 3.3.3 Creating Non-Inheriting Organizational Units for GPO Testing / Troubleshooting

3.3.4 Lab: Group Policy Troubleshooting

3.4 Manage Your Workstations

- 3.4.1 Deploying a Desktop Background to your domain with GPO (Group Policy Object)
- 3.4.2 Setting up a Logon Banner (Interactive Logon)
- 3.4.3 Deploying Software with Group Policy
- 3.4.4 Creating Roaming Profiles (duplicate)
- 3.4.5 Configuring Roaming Profiles for User Accounts
- 3.4.6 Configure User Roaming Profile Path with PowerShell
- 3.4.7 Creating and Mounting File Shares with Group Policy
- 3.4.8 Lab: Manage Your Workstations with Group Policy

3.5 Securing Your Domain

- 3.5.1 Configuring Domain Password and Account Lockout Policies with Group Policy
- 3.5.2 Deploying Fine Grained Password Policies (PSOs)
- 3.5.3 Configuring Windows Firewall with Group Policy
- 3.5.4 Configuring Registry Settings with Group Policy
- 3.5.5 Lab: Securing Your Domain with Group Policy

Module 4: Installing and Configuring Domain Name System (DNS)

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- 4.1.1 Instructor and Course Introduction
- 4.1.2 What's New in Windows Server 2016 DNS

4.2 DNS Basics

- 4.2.1 What is DNS
- 4.2.2 Installing the DNS Windows Server Role
- 4.2.3 Building DNS Server Quiz
- 4.2.4 The Hosts File
- 4.2.5 Do I need NETBIOS?

- 4.2.6 The Problem with NetBIOS
- 4.2.7 DNS Console Overview
- 4.2.8 Recursive and Iterative Queries
- 4.2.9 DNS Basics LAB
- 4.2.10 DNS Basics Quiz

4.3 DNS Resource Records

- 4.3.1 DNS Resource Record Types
- 4.3.2 Creating the mytestzone Forward Lookup Zone
- 4.3.3 Creating DNS Resource Records
- 4.3.4 Creating DNS Resource Records Lab
- 4.3.5 DNS Resource Records Quiz

4.4 DNS Zones

- 4.4.1 DNS Zones
- 4.4.2 Creating a Forward and Reverse Lookup Zone
- 4.4.3 Creating a Secondary Zones
- 4.4.4 Stub Zone Creation
- 4.4.5 Active Directory Zone Replication
- 4.4.6 Implementing DNS Forwarding
- 4.4.7 Implementing Conditional DNS Forwarding
- 4.4.8 Forward and Reverse Zone Creation Lab
- 4.4.9 Creating a Secondary Zone Lab
- 4.4.10 Conditional Forwarding Lab
- 4.4.11 Creating a Stub Zone Lab
- 4.4.12 DNS Zones Quiz

4.5 DNS Delegation

- 4.5.1 Domain Name System and DNS Delegation
- 4.5.2 Windows 2016 Server and DNS Zone Delegation

- 4.5.3 DNS Delegation Lab
- 4.5.4 QUIZ Domain Name System and DNS Delegation

4.6 DNS Security Techniques

- 4.6.1 DNS Security Techniques Overview
- 4.6.2 Configuring DNS Cache Locking
- 4.6.3 Configuring DNS Socket Pools
- 4.6.4 Configuring Response Rate Limiting
- 4.6.5 DNS Security Techniques Quiz

4.7 Advanced DNS Topics

- 4.7.1 Overview of Advanced Topics
- 4.7.2 Enabling Round Robin and Netmask Ordering
- 4.7.3 Configuring Recursion
- 4.7.4 IPV4 and IPV6 Root HInts
- 4.7.5 Advanced DNS Topics Quiz

4.8 DNS Security (DNSSEC)

- 4.8.1 Windows DNS Security Overview
- 4.8.2 Symmetric vs Asymmetric Encryption
- 4.8.3 Installing DNSSEC on Windows 2016 Server
- 4.8.4 DNSSEC Client Install
- 4.8.5 DNSSEC (DNS Security Lab)
- 4.8.6 DNSSEC Quiz

4.9 DNS Policies

- 4.9.1 DNS Policies Background Information
- 4.9.2 Configuring DNS Filtering
- 4.9.3 Configuring Split Brain DNS in an Active Directory Environment
- 4.9.4 Configuring DNS Selective Recursion Policy

- 4.9.5 Configuring a Traffic Management Policy
- 4.9.6 DNS Policies

4.10 PowerShell for DNS

- 4.10.1 PowerShell for DNS Part 1
- 4.10.2 PowerShell for DNS Part 2
- 4.10.3 PowerShell for DNS Part 3
- 4.10.4 PowerShell for DNS Part 4
- 4.10.5 PowerShell for DNS LAB
- 4.10.6 Powershell for DNS Quiz

4.11 Troubleshooting DNS Issues - Troubleshooting Tools

- 4.11.1 Troubleshooting Tools Every IT Pro Must Know
- 4.11.2 Table Troubleshooting Tools every IT pro should know
- 4.11.3 The Events Viewer Overview
- 4.11.4 Creating a Secondary Zone (for the Events viewer Overview)
- 4.11.5 Subscriptions
- 4.11.6 Trouble-Shooting DNS Client Issues
- 4.11.7 Monitoring and Debug Logging
- 4.11.8 Table for Subscription Creation
- 4.11.9 Troubleshooting Subscriptions Lab
- 4.11.10 DNS Troubleshooting Lab
- 4.11.11 DNS Troubleshooting Quiz

Module 5: Installing and Configuring Dynamic Host Configuration Protocol (DHCP)

5.1 Introduction to DHCP

- 5.1.1 Section Overview
- 5.1.2 What is an IP Address?
- 5.1.3 What is DHCP and Why is It Useful?
- 5.1.4 DHCP In Your Home Network

5.1.5 DHCP Basics Quiz

5.2 Deploying Windows Server DHCP

- 5.2.1 What is DHCP and How Does it Work?
- 5.2.2 Turn off Your VirtualBox (or other Virtualization Software) DHCP Service
- 5.2.3 Install the DHCP Server Role
- 5.2.4 Configure DHCP Scopes, Exclusions and Lease Durations
- 5.2.5 Configure DHCP Reservations
- 5.2.6 Lab: Deploying Windows Server DHCP

5.3 Course Conclusion

Module 6: Installing and Configuring Windows Server Update Services (WSUS)

6.1 Introduction

6.1.1 What is WSUS - Edited

6.2 Optional Lab Setup

- 6.2.1 Downloading Required Software Edited
- 6.2.2 Installing VirtualBox and Creating Our VMS and Virtual Network Edited Fixed
- 6.2.3 Installing Windows Server Part 1 and 2 Edited
- 6.2.4 Building Our Windows Domain Edited
- 6.2.5 Installing Windows 10 Edited

6.3 Installation and Configuring WSUS (Windows Server Update Services)

- 6.3.1 Installing The WSUS Role
- 6.3.2 Configuring Our WSUS Server
- 6.3.3 Configuring WSUS with Group Policy
- 6.3.4 Configuring WSUS Clients That Are Not In Your Domain
- 6.3.5 Installing and Configuring WSUS Quiz
- 6.3.6 Lab: Installing and Configure WSUS

6.4 How to use WSUS

- 6.4.1 WSUS Synchronizations
- 6.4.2 Managing WSUS Client Computers and Groups
- 6.4.3 Approving WSUS Updates
- 6.4.4 Lab: How to use WSUS

6.5 WSUS Troubleshooting

- 6.5.1 Issues with Client Computers Not Reporting
- 6.5.2 What To Do When Your WSUS Server Wont Download Updates
- 6.5.3 WSUS Server Cleanup Wizard
- 6.5.4 Windows Update Agent Result Codes Reference
- 6.5.5 Windows-Update-Agent-WUA-Result-Codes.pdf

6.6 Advanced WSUS Administration

- 6.6.1 Creating an Downstream WSUS Server
- 6.6.2 Moving Your WSUS Content to Another Hard Drive (or Location)
- 6.6.3 Importing Updates to an Offline WSUS Server
- 6.6.4 Lab: Configuring a Downstream WSUS Server
- 6.6.5 Lab: Importing Updates Offline WSUS Server

6.7 Course Conclusion

6.7.1 Course Conclusion

Module 7: Administration and Automation with Windows PowerShell

7.1 Course Introduction

- 7.1.1 Course Introduction
- 7.1.2 PowerShell System Requirements

7.2 Getting Started with Windows PowerShell

- 7.2.1 The Basics of PowerShell
- 7.2.2 Installing and Updating PowerShell
- 7.2.3 The Text Based Console Part 1- An Overview

- 7.2.4 Text Based Console Part 2 An Overview
- 7.2.5 The ISE (Intelligent Scripting Environment) Part 1
- 7.2.6 The ISE (Intelligent Scripting Environment) Part 2

7.3 Getting Help and Finding Commands

- 7.3.1 Getting Help and Finding Commands Part 1
- 7.3.2 Getting Help and Finding Commands Part 2
- 7.3.3 Getting Help and Finding Commands Part 3
- 7.3.4 Help System LAB Questions
- 7.3.5 Help System Lab Answers 1-4
- 7.3.6 Help System Lab Answers 5-9

7.4 PowerShell Command Syntax

- 7.4.1 Command Syntax Part 1
- 7.4.2 Command Syntax Part 2
- 7.4.3 Command Syntax Part 3
- 7.4.4 Command Syntax Lab Questions
- 7.4.5 Command Syntax Lab Answers

7.5 PowerShell Objects and Properties

- 7.5.1 Objects, Properties and Methods Part 1
- 7.5.2 Objects, Properties and Methods Part 2
- 7.5.3 Objects, Properties and Methods Part 3
- 7.5.4 Objects, Properties and Methods Part 1
- 7.5.5 Questions 1-9 for Objects, Properties and Methods
- 7.5.6 Answers to Questions 1-7 O-P-M
- 7.5.7 Answers to Questions 8,9 O-P-M

7.6 The PowerShell Pipeline

7.6.1 The Pipeline Part 1

7.6.2 The Pipeline Part 2

7.7 PowerShell Arrays and Variables

- 7.7.1 PowerShell Variables
- 7.7.2 PowerShell Arrays
- 7.7.3 PowerShell Variables Challenge
- 7.7.4 PowerShell Variables Solution

7.8 PowerShell Loops

- 7.8.1 For Loops
- 7.8.2 While Loops
- 7.8.3 For Each Loop

7.9 PowerShell Conditional Statements

7.9.1 PowerShell Conditional Statements (If Then Else, Switch)

7.10 On Premises Lab Setup

- 7.10.1 Should You Watch This Section?
- 7.10.2 Downloading and Installing VirtualBox
- 7.10.3 Downloading Windows Server 2019
- 7.10.4 Creating Your Virtual Network
- 7.10.5 Creating Your Virtual Machines
- 7.10.6 Installing VirtualBox Guest Additions
- 7.10.7 Installing Windows Server
- 7.10.8 Installing the Active Directory Domain Services Role

7.11 Basic Domain Administration with Windows PowerShell

- 7.11.1 Configuring PowerShell Execution Policy with Group Policy
- 7.11.2 Installing Windows Server Roles and Features with Powershell
- 7.11.3 Running Powershell Scripts as Scheduled Tasks
- 7.11.4 Creating Organizational Units with Powershell

- 7.11.5 Creating and Managing Active Directory User Accounts with PowerShell
- 7.11.6 Move all AD Users in a Group to a Specific Organizational Unit
- 7.11.7 Generate a list of AD Users and their OU
- 7.11.8 PowerShell Splatting
- 7.11.9 Bulk Install Windows MSU Files Automatically with PowerShell
- 7.11.10 Lab: Domain Administration with Windows PowerShell

7.12 Send Emails with PowerShell

- 7.12.1 Send Emails from Gmail with PowerShell
- 7.12.2 Create Password Expiration Notification Script

7.13 PowerShell Desired State Configuration (DSC) Basics

- 7.13.1 DSC Overview
- 7.13.2 Enabling PSRemoting with Group Policy
- 7.13.3 The DSC Resource Kit
- 7.13.4 Configuring The Local Config Manager for DSC Push
- 7.13.5 Uninstalling Windows Features with DSC
- 7.13.6 Configure a Web Server with DSC
- 7.13.7 Desired State Configuration (DSC) Basic Quiz
- 7.13.8 Lab: Desired State Configuration (DSC)

7.14 Course Conclusion

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Module 8: Installing and Configuring System Center Configuration Manager (SCCM)

8.1 Getting Started with this Course

- 8.1.1 SCCM Configuration Manager Overview
- 8.1.2 Prerequisites in a Production Environment
- 8.1.3 SCCM Production Requirements (1702)

8.2 System Center Configuration Manager - Features and Capibilities

- 8.2.1 Asset Management
- 8.2.2 Administrative Tasks
- 8.2.3 Client Management Part 1
- 8.2.4 Client Management Part 2

8.3 SCCM 1902 Lab Setup

- 8.3.1 This section is optional
- 8.3.2 Lab Overview
- 8.3.3 Downloading and Installing VirtualBox
- 8.3.4 Creating Your NAT Network and VMs
- 8.3.5 Downloading and Mounting Server 2019 ISO
- 8.3.6 Installing Windows Server 2019 Part 1
- 8.3.7 Installing Windows Server 2019 Part 2
- 8.3.8 Downloading and Mounting Windows 10 ISO
- 8.3.9 Installing Windows 10
- 8.3.10 Configuring SADC01
- 8.3.11 Configuring our SAWS01 Workstation
- 8.3.12 Configuring our SASCCM01 Server

8.4 Installing SCCM 1902 Installation

- 8.4.1 SCCM Compatability Check
- 8.4.2 Download Required SCCM Software
- 8.4.3 Installing the ADK
- 8.4.4 Creating the System Management Container
- 8.4.5 Creating Domain User Accounts
- 8.4.6 Extending the Active Directory Schema
- 8.4.7 Configure Windows Firewall with Group Policy for SCCM
- 8.4.8 Install SQL Server 2017
- 8.4.9 Installing SCCM Dependant Server Roles

- 8.4.10 Installing System Center Configuration Manager Edited
- 8.4.11 Lab: Installing System Center Configuration

8.5 Configuration Manager Basics

- 8.5.1 Console Overview Part 1
- 8.5.2 Console Overview Part 2
- 8.5.3 Site System Roles
- 8.5.4 SCCM Console Overview (1702)
- 8.5.5 Creating and Managing Administrative Users
- 8.5.6 Creating Boundary and Boundary Groups
- 8.5.7 Client Discovery Methods
- 8.5.8 SCCM Basics Quiz
- 8.5.9 Lab: SCCM Basics

8.6 Updating SCCM

- 8.6.1 Understanding Windows ADK Compatibility
- 8.6.2 Configuration Manager Update Overview
- 8.6.3 How to Verify Your ADK Version
- 8.6.4 Installing ADK 1903
- 8.6.5 Updating SCCM
- 8.6.6 Verifying Our Configuration After Update
- 8.6.7 Quiz: Upgrading SCCM
- 8.6.8 Lab: Updating SCCM
- 8.6.9 Overview of the SCCM Update process (1702)
- 8.6.10 Updating Configuration Manager (1702)

8.7 SCCM Client Installation

- 8.7.1 Preparing for Client Installations with Group Policy
- 8.7.2 Client Push Installation
- 8.7.3 Deploying the SCCM Client with Group Policy

8.8 User and Device Collections

- 8.8.1 Collections Overview and the Direct Rule
- 8.8.2 Creating Include/Exclude Collections
- 8.8.3 Query based User and Device Collections Introduction
- 8.8.4 Query Based User Collections Example #1
- 8.8.5 Query Based User Collections Example #2
- 8.8.6 Query Based User Collection Challenge #1
- 8.8.7 Query Based Device Collection Example #1
- 8.8.8 Creating Additional VM's for Future Sections (1702)
- 8.8.9 Hands on User and Device Collections Creating an OU in AD (1702)
- 8.8.10 Role Based Administration
- 8.8.11 Assigning a User Collection to an Administrative Security Roll
- 8.8.12 Using a Collection to Enforce a Maintenance Window
- 8.8.13 Deploying Power Management to a Collection
- 8.8.14 Excluding Computers from Power Management
- 8.8.15 Using a Collection to Turn-On the Remote Control Feature

8.9 Application Management

- 8.9.1 Application Management Overview
- 8.9.2 Creating an Application using an MSI Part 1
- 8.9.3 Creating an Application using an MSI Part 2
- 8.9.4 Supersedence Part 1
- 8.9.5 Supersedence Part 2
- 8.9.6 Creating an Application using an EXE
- 8.9.7 Creating an Application that requires Approval
- 8.9.8 Creating a Package using an MSI
- 8.9.9 Uninstalling an Application

- 8.9.10 Creating a Network Share and a Collection (1702)
- 8.9.11 Creating and Deploying Applications (1702)
- 8.9.12 Deploying an Application to a Collection (1702)
- 8.9.13 Monitoring Applications
- 8.9.14 Lab: Application Deployment

8.10 Operating System Deployment

- 8.10.1 Create a Windows 10 Collection
- 8.10.2 OSD The Basics
- 8.10.3 Setting Up a DHCP Server
- 8.10.4 Downloading Windows Setting up VB
- 8.10.5 Adding an Operating System to Configuration Manager
- 8.10.6 Create a Deployments folder for the Captured Image
- 8.10.7 Creating a Task Sequence
- 8.10.8 Enable PXE Support Configure WDS

8.11 Endpoint Protection

- 8.11.1 An Overview of Network Security
- 8.11.2 Endpoint Protection Server Prerequisites
- 8.11.3 Endpoint Protection Licensing
- 8.11.4 Endpoint Protection Planning and Integration
- 8.11.5 Create a Shared Folder Named EPUdates
- 8.11.6 Endpoint Protection Server Configuration and Installation
- 8.11.7 Endpoint Protection Policy Overview
- 8.11.8 The Anti-malware Policy Settings Overview
- 8.11.9 Configuring an Automatic Deployment Rule (ADR)
- 8.11.10 Endpoint Protection Client Installation

8.12 Troubleshooting

8.12.1 SCCM Troubleshooting Overview

- 8.12.2 The CMTrace Overview
- 8.12.3 Deploying CMTrace to a Device Collection
- 8.12.4 Troubleshooting a failed Client Push Install

8.13 Problems and Solutions from the Message Board

- 8.13.1 Cannot Establish a Remote Desktop Connection from SSCM to a Client Alstud
- 8.13.2 Problems Downloading ADK
- 8.13.3 Problems using VB AKM Rajib
- 8.13.4 SCCM Console will not connect to the Site Database
- 8.13.5 PXE Boot Errors and Resolutions
- 8.13.6 OSD and Task Sequence Issues
- 8.13.7 How to Extend the Windows Server 2016 Evaluation Time Period
- 8.13.8 mfc120.dll is missing while trying to extend the schema

Module 9: Introduction to On-premises and Cloud Virtualization

9.1 Welcome to The Course!

- 9.1.1 Welcome to The Course
- 9.1.2 Student Survey

9.2 On Premises Lab Setup (VirtualBox)

- 9.2.1 Section Overview
- 9.2.2 Downloading and Installing VirtualBox
- 9.2.3 Creating a Virtual Network with VirtualBox
- 9.2.4 How to Create Virtual Machines with VirtualBox
- 9.2.5 How to Install Windows Server 2016 on Your Virtual Machine
- 9.2.6 Installing Windows 10 in our IT Lab

9.3 Off-Premises AWS Lab Setup

- 9.3.1 Off-premises Lab Section Overview
- 9.3.2 Registering an AWS Account

- 9.3.3 Creating an AWS EC2 Instance
- 9.3.4 Terminating Your EC2 Instance and Off-Premises Lab

9.4 Free Off-Premises Microsoft Lab (Bonus)

9.4.1 How to access and Launch Microsoft Cloud Hosted Labs for Free

Please note that a small percentage of these lectures are in the draft phase and have not been published yet. We consistently upload new content to provide you with the best possible learning experience.