



Cloud Computing Training Content

❖ **Basis of Cloud Computing**

- What is Cloud & Cloud computing
- Describe cloud model(public, private, hybrid, community)
- Services of cloud(IaaS, PaaS, SaaS)

PaaS

❖ **Virtualizations type and Vendors**

- Type I & II Virtualizations
- Virtualizations Benefits
- Virtualizations Vendors
 - VMware ESXi/VMware Workstation
 - Citrix XenServer
 - Microsoft Hyper-V

Labs

- Installing the HyperV Role
- Configuring Virtual Networking
- Creating and Configuring a Virtual Machine
- Using Virtual Machine Snapshots

IaaS

❖ **Deploying and Managing Windows Server 2016**

- Windows Server 2016 Overview
- Installing Windows Server 2016
- Post-Installation Configuration of Windows Server 2016
- Overview of Windows Server 2016 Management

Labs

- Exercise 1: Deploying Windows Server 2016
- Exercise 2: Configuring Windows Server 2016 Server Core
- Exercise 3: Managing Servers
- Exercise 4: Using Windows PowerShell to Manage Servers

❖ Introduction to MS Active Directory Services.

- Install and configure Windows Server 2016 Describe AD DS
- Managing User Accounts
- Managing Groups
- Managing Computer Accounts

Labs

- Exercise 1: Installing a Domain Controller
- Exercise 1: Delegating Administration for a Branch Office
- Exercise 2: Creating and Configuring User Accounts in AD DS
- Exercise 3: Creating User Accounts .OU and Groups by Using Windows PowerShell
- Exercise 4: Using Windows PowerShell to Create User Accounts in Bulk
- Exercise 5: Configuring a Central Store
- Exercise 6: Creating GPOs

❖ Basis of Networking

- Type of Topologies
- LAN/WAN/MAN
- IPV4 and Classes

Labs

- Exercise 1: Identifying Appropriate Subnets
- Exercise 2: Troubleshooting IPv4

Azure

❖ Getting Started with Microsoft Azure

- What is cloud computing?
- What is Azure?
- Managing Azure
- Subscription management, support, and billing

Lab

- Using the Azure portals
- Customizing the Azure portal interface
- Viewing billing, usage, and quotas data

❖ Virtual machines in Microsoft

- Creating and configuring VMs
- Configure disks

Lab

- Creating a VM in Azure
- Create a VM from the Azure Portal by using an Azure Marketplace image
- Verify the functionality of the VM
- Configure storage of a VM

❖ **Creating and configuring virtual**

- Getting started with virtual networks
- Creating a virtual network

Lab

- Create a virtual network
- Creating a virtual network
- Verifying virtual network functionality

❖ **Cloud storage**

- Understanding cloud storage
- Create and manage storage

Lab

- Configure Azure Storage
- Create an Azure Storage account

❖ **Creating and managing Azure**

- Overview of Azure AD
- Manage Azure AD authentication

Lab

- Create users in Azure Active Directory tenants
- Create users in Azure AD
- Create a new Azure AD Tenant and a custom DNS domain

SaaS

Office 365 Overview

❖ **Module 1: Preparing for Office 365**

- Introduction to Office 365
- Provisioning the Tenant Accounts
- Planning a Pilot
- Enabling Client Connectivity

Lab

- Exercise 1: Planning a Fast Track Pilot
- Exercise 2: Provisioning the Tenant Account
- Exercise 3: Preparing to Manage Office 365

❖ **Module 2: Managing Users, Groups, and Licenses**

- Manage Users and Licenses by Using the Administration Center
- Manage Security and Distribution Groups
- Manage Cloud Identities with Windows Power Shell

Lab

- Exercise 1: Manage Users and Licenses by Using the Administration Center
- Exercise 2: Manage Security and Distribution Groups
- Exercise 3: Manage Cloud Identities with Microsoft PowerShell

❖ **Module 3: Administering Office 365**

- Manage Administrator Roles in Office 365
- Configure Password Management
- Administer Rights Management

Lab

- Exercise 1: Manage Administrator Roles in Office 365
- Exercise 2: Configure Password Management

❖ **Module 4: Planning and Managing Clients**

- Plan for Office Clients
- Manage User-driven Client Deployments
- Manage IT Deployments of Office 365 Pro Plus
- Office Telemetry and Reporting

Lab

- Exercise 1: Manage user-driven client deployments
- Exercise 2: Manage IT deployments of Office 365 Pro Plus