⧉ Azure Administration

Azure Engineer or Administrator
(Your Target, Our Commitment)

Microsoft®
C E R T I F I E D
Systems Administrator

Industrial - Corporate Training

Available
Fast Track
Regular

100%
JOB GUARANTEE
JOB GUARANTEE

Available
Weekend
Sat - Sun

This Training Qualifies Individual for Jobs:

Azure Solution Support Engineer   Azure Administrator

Azure Administration Module Ver. 1-1

Prerequisites (Eligibility Criteria):

- Should have Work Experience in Desktop Administrator / Server Administration
- Good Knowledge of Windows Server Services / Linux Server Services
- Networking Fundamentals, including TCP/IP -Client /Server Architect Concept.
- Windows Server Services including Group Policies, DNS, DHCP, RIS, and Backup.
- Deploying, configuring, and troubleshooting Windows- Based computers
- Good Knowledge of VMWare / Hyper V (Virtualization) Technology
- Concepts of Disaster Recovery, High Availability, Managed Services, Datacenter
- IP schemes & Classes, Subnets, Routing Tables, VPN, LAN, Firewalls, NAT, Gateways

1. 100 % Hand on Practical Module (All LAB will be on Scenario and Case Study Based)
2. Resume Modification & Interview Preparation for AWS Administrator Profile.
3. Each Trainee Will Get Individual Attention for Complete Hand on Practice.
4. Each Topic Assignment and Project will be mandatory to complete for every trainee.
5. Guaranteed Placement Total Fee: 20,500 Rs

REGISTRATION FEE: 500 RS: 1ST INSTALLMENT: 5000 RS: 2ND INSTALLMENT: 5000 RS

AFTER JOB CONFIRMATION: 10,000

FAST TRACK: 1.5 MONTHS AND WEEKEND: 4 MONTHS

Azure Carriculum

Module 1: Introduction to Azure

o Cloud technology overview.
o Overview of Azure.
o Why to choose Microsoft Azure.
o Managing Azure with the Azure portal.
o Managing Azure with Windows PowerShell.
o Overview of Azure Resource Manager.
o Features of Azure Resource Manager.
o Understand about multiple management native tools.
o Different Azure deployment models.

LAB

o Preparing Azure subscription.
o Understanding about Azure portal & respective services.
o Preparing/installing Azure PowerShell or Azure Shell.
o Access/connect/manage Azure subscription using Azure PowerShell.
o Creating sample VM along with dependent resources & managing. (stop/start/deallocate/restart) that through PowerShell & Azure management portal.

Module 2: Manage Identities and Secure Identities

o Lesson/Presentation
o Managing Azure Active Directory
o Managing Azure Active Directory Objects
o Implementing and Managing Hybrid Identities
o Introduction to Identity Protection in Azure
o Azure AD Connect
o Azure AD Basic & Premium Editions

LAB

o Creating & configuring Azure AD tenant
o Using custom Domain at Azure AD
o Registering custom domain at DNS registrar
o Creating objects at Azure AD
o Syncing objects from on-premises AD to Azure AD
o Enable Multi-factor authentication at Azure AD objects
o Enable Azure AD Premium
o Configuring Conditional access at Azure AD.
o Publishing Applications at Azure AD.

Microsoft Carriculum

1: Installing and configuring domain controllers

Lessons

o Overview of AD DS
o Overview of AD DS domain controllers
o Deploying a domain controller

Lab : Deploying and administering AD DS

o Deploying AD DS
o Deploying domain controllers by performing do main controller cloning
o Administering AD DS

2: Managing objects in AD DS

Lessons

o Managing user accounts
o Managing groups in AD DS
o Managing computer objects in AD DS
o Using Windows PowerShell for AD DS administra tion
o Implementing and managing OUs

Lab : Managing AD DS objects

o Creating and managing groups in AD DS
o Creating and configuring user accounts in AD DS
o Managing computer objects in AD DS

Lab : Administering AD DS

o Delegate administration for OUs
o Creating and modifying AD DS objects with Win dows PowerShell

3: Advanced AD DS infrastructure management

Lessons

o Overview of advanced AD DS deployments
o Deploying a distributed AD DS environment
o Configuring AD DS trusts

Lab : Domain and trust management in AD DS

o Implementing forest trusts
o Implementing child domains in AD DS

4: Implementing and administering AD DS sites and replication

Lessons

o Overview of AD DS replication
o Configuring AD DS sites
o Configuring and monitoring AD DS replication

Lab : Implementing AD DS sites and replication

o Modifying the default site
o Creating additional sites and subnets
o Configuring AD DS replication
o Monitoring and troubleshooting AD DS replication

Azure Carriculum

o **Module 3: Implementing and Managing Storage & Azure Backup.**

o Lesson/Presentation
o Overview of Different types Azure Storage.
o Storage Service concept.
o Securing and Managing Storage.
o Storing and Accessing Data.
o How to choose proper storage types.
o Monitoring Storage.
o Azure Content Delivery Network (CDN).
o Azure Backup/Recovery Services.

LAB

o Creating different type of Storages.
o Creating & managing Blob storage/Containers.
o Crating & managing File storage& accessing from multiple sources.
o Using Storage Explorer to managing Azure storages.
o Using access key/ SAS key to access storages.
o Implementing Azure Backup solution to take backup/ restore of on-premises workloads.
o Implementing Azure Backup for IaaS VM backup/ restore.

Module 4: Deploying and Managing Virtual Machines

o Lesson/Presentation
o Overview of Azure Machines.
o Creating Virtual Machines.
o Deploying Virtual Machine Images.
o Configuring Virtual Machines.
o Choosing type of VM's as per business needs.
o Configuring Availability and Extensibility.
o Managing and Monitoring Virtual Machines.

LAB

o Creating Azure Virtual machines using Azure Portal.
o Creating Azure Virtual Machines using Azure Power Shell.
o Creating Azure Virtual Machines using Azure Re source Manager (ARM) template.
o Creating Azure Virtual Machines with HA (High Availability) Set.
o Accessing Azure Virtual Machines using RDP/SSH.
o Managing Azure Virtual Machines using PowerShell.
o Accessing Azure Virtual Machines using Azure DNS/ Public IP.
o Configuring Network Security Groups (NSGs)

Microsoft Carriculum

5: Implementing Group Policy

Lessons

o Introducing Group Policy
o Implementing and administering GPOs
o Group Policy scope and Group Policy processing
o Troubleshooting the application of GPOs

Lab : Implementing a Group Policy infrastructure

o Creating and configuring GPOs
o Managing GPO scope

Lab : Troubleshooting Group Policy infrastructure

o Verify GPO application
o Troubleshooting GPOs

6: Managing user settings with Group Policy

Lessons

o Implementing administrative templates
o Configuring Folder Redirection, software installation, and scripts
o Configuring Group Policy preferences

Lab : Managing user settings with GPOs

o Using administrative templates to manage user settings
o Implement settings by using Group Policy preferences
o Configuring Folder Redirection
o Planning Group Policy (optional)

7: Securing Active Directory Domain Services

Lessons

o Securing domain controllers
o Implementing account security
o Implementing audit authentication
o Configuring managed service accounts

Lab : Securing AD DS

o Implementing security policies for accounts, passwords, and administrative groups
o Deploying and configuring an RODC
o Creating and associating a group MSA

8: Planning and implementing an IPv4 network

Lessons

o Planning IPv4 addressing
o Configuring an IPv4 host
o Managing and troubleshooting IPv4 network connectivity

Lab : Planning an IPv4 network

o Planning the IPv4 address assignments

Azure Carriculum

o **Module 5: Configure and Manage Virtual Networks and Implement Advanced Virtual Networking**

o Lesson/Presentation
o Azure Virtual Networks/Subnets
o Azure DNS Vs BYO DNS.
o Securing Virtual Network Resources
o Connecting Virtual Networks
o Azure VPN (Virtual Private Network)
o What & Why Site to Site VPN
o What & Why Point to Site VPN
o What & VNET to VNET connectivity
o What & Why VNET peering
o What & Why Azure ExpressRoute
o Azure Load balancer.
o Network Monitoring tools.

LAB

o Creating Azure Virtual Network/Address Space/Sub nets.
o Creating VPN Gateway.
o Configuring Point to Site VPN.
o Configuring Site to Site VPN.
o Configuring VNET to VNET connection.
o Configuring VNET peering.
o Creating & configuring Azure Load Balancer.

o **Module 6: Migrate Servers to Azure**

Lesson/Presentation

o Introduction about Azure Migrate
o Introduction about Azure Site Recovery
o Understand about Pre-Migration phases
o Test failover Vs Planned failover
o Different components & use of Azure site recovery
o Capacity planning about Azure Site recovery

LAB

o Planning for servers/workloads to migration
o Deploying Azure site recovery
o Configuring all components of Azure site recovery
o Selecting source servers for migration
o Configuring target environment at Azure to migrate
o Migrating/replication workloads at Azure
o Test failover & planned failover
o Access VM after successful migration.

Microsoft Carriculum

Lab : Implementing and troubleshooting an IPv4 network

o Verifying IPv4
o Troubleshooting IPv4

9: Implementing DHCPLessons

o Overview of the DHCP server role
o Deploying DHCP
o Managing and troubleshooting DHCP

Lab : Implementing DHCP

o Planning a DHCP server implementation
o Implementing the DHCP configuration
o Validating the DHCP implementation

10: Implementing DNS

Lessons

o Implementing DNS servers
o Configuring zones in DNS
o Configuring name resolution between DNS zones
o Configuring DNS integration with Active Directory Domain Services (AD DS)
o Configuring advanced DNS settings

Lab : Planning and implementing name resolution by using DNS

o Planning DNS name resolution
o Implementing DNS servers and zones

Lab : Integrating DNS with Active Directory

o Integrating DNS with Active Directory

Lab : Configuring advanced DNS settings

o Configuring DNS policies
o Validating the DNS implementation
o Troubleshooting DNS

11: Installing and configuring Hyper-V and virtual machines

Lessons

o Overview of Hyper-V
o Installing Hyper-V
o Configuring storage on Hyper-V host servers
o Configuring networking on Hyper-V host servers
o Configuring Hyper-V virtual machines
oManaging virtual machines

Lab : Installing and configuring Hyper-V

o Verify installation of the Hyper-V server role
o Configuring Hyper-V networks
o Creating and configuring a virtual machines
o Enable nested virtualization for a virtual machine

12: Configuring local storage

Lessons

o Managing disks in Windows Server
o Managing volumes in Windows Server

Lab : Configuring local storage

o Creating and managing volumes
o Resizing volumes
o Managing virtual hard disks.

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Azure Carriculum

o **Module 7: Implement and Manage Application Services**

o Lesson/Presentation
o Introducing the Azure App Service Platform
o Managing and Securing Web App
o Scaling and Performance
o Serverless Computing Solutions
o Understand about app service plan
o Multiple deployment options for Azure web app
o Web app Slots
o Azure Traffic Manager (DNS based Global Load Balancer)
o Feature & benefit of multiple types of LB mechanism at Azure Traffic Manager

LAB

o Configuring Azure web app
o Creating app service plan
o Configuring web app slots (staging/production/dev)
o Configuring multiple app endpoint
o Configuring Azure Traffic manager
o Access/connect application through Traffic manager endpoint
o Configuring auto scaling for Azure web app.
o Testing application availability by stopping one or more web app endpoint
o Test failover & planned failover
o Access VM after successful migration.

o **Module 8: Managing Azure Subscriptions and Resources**

o Lesson/Presentation
o Managing Azure Subscriptions.
o Access Management for Cloud Resources.
o Monitoring and Diagnostics about Azure Resources.
o Pricing & Billing.
o Azure Roles & access considerations.
o Built-in roles Vs custom/default roles.

LAB

o Grant/deny access on Azure subscription.
o Grant/deny access at Azure Resources/Resource groups.
o Resource locking.
o Pricing & Billing concept.
o Usage & quota

Microsoft Carriculum

13: Implementing WSUS

Lessons

o WSUS overview and deployment options
o Update management process with WSUS
o Overview of Windows PowerShell DSC
o Overview of Windows Server 2016 monitoring tools
o Using Performance Monitor
o Monitoring event logs

Lab : Implementing WSUS and deploying updates

o Implementing WSUS
o Configuring update settings
o Approving and deploying an update by using WSUS

Lab : Monitoring and troubleshooting Windows Server 2016

o Establishing a performance baseline
o Identifying the source of a performance problem
o Viewing and configuring centralized event logs

14: Installing, upgrading, and migrating servers and workloads

Lessons

o Introducing Windows Server 2016
o Preparing for upgrades and migrations from 2008 to 2012 and 2012 to 2016
o Edition of Operating Systems
o Migrating server roles and workloads
o Windows Server activation models

Lab : Installing and configuring Windows Server 2016

o Installing Windows Server 2016
o Upgrades and migrations from 2008 to 2012 and 2012 to 2016

15: Troubleshooting, Monitoring, managing, and recovering AD DS

Lessons

o Monitoring AD DS
o Managing the Active Directory database
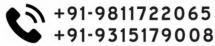o Active Directory backup and recovery options for AD DS and other identity and access solutions

Lab : Recovering objects in AD DS

o Backing up and restoring AD DS
o Recovering objects in AD DS

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