

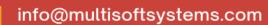
# AZ-100 Microsoft Azure Infrastructure and Deployment Training

COURSE CONTENT

# **GET IN TOUCH**











# **About Multisoft**

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### **About Course**

The AZ-100 Microsoft Azure Infrastructure and Deployment training offered by Multisoft Systems is designed to equip professionals with the essential skills and knowledge needed to manage Azure infrastructure solutions effectively.



# Module 1: Manage Azure subscriptions and resources

### 1.1 Manage Azure subscriptions

- √ assign administrator permissions
- ✓ configure cost center quotas and tagging
- ✓ configure Azure subscription policies at Azure subscription level

### 1.2 Analyze resource utilization and consumption

- ✓ configure diagnostic settings on resources
- ✓ create baseline for resources
- ✓ create and rest alerts
- ✓ analyze alerts across subscription
- √ analyze metrics across subscription
- ✓ create action groups
- ✓ monitor for unused resources
- ✓ monitor spend
- √ report on spend
- ✓ utilize Log Search query functions
- ✓ view alerts in Log Analytics

### 1.3 Manage resource groups

- √ use Azure policies for resource group
- √ configure resource locks
- √ configure resource policies
- √ implement and set tagging on resource groups
- ✓ move resources across resource groups
- √ remove resource groups



# Module 2: Implement and manage storage

### 2.1 Create and configure storage accounts

- ✓ configure network access to the storage account
- ✓ create and configure storage account
- ✓ generate shared access signature
- √ install and use Azure Storage Explorer
- √ manage access keys
- ✓ monitor activity log by using Log Analytics
- √ implement Azure storage replication

### 2.2 Import and export data to Azure

- ✓ create export from Azure job
- ✓ create import into Azure job
- ✓ use Azure Data Box
- ✓ configure and use Azure blob storage
- ✓ configure Azure content delivery network (CDN) endpoints

### 2.3 Configure Azure files

- ✓ create Azure file share
- ✓ create Azure File Sync service
- ✓ create Azure sync group
- ✓ troubleshoot Azure File Sync

### 2.4 Implement Azure backup

- ✓ configure and review backup reports
- ✓ perform backup operation
- ✓ create Recovery Services Vault
- ✓ create and configure backup policy
- ✓ perform a restore operation



# Module 3: Deploy and manage virtual machines (VMs)

### 3.1 Create and configure a VM for Windows and Linux

- ✓ configure high availability
- ✓ configure monitoring, networking, storage, and virtual machine size
- ✓ deploy and configure scale sets

### 3.2 Automate deployment of VMs

- ✓ modify Azure Resource Manager (ARM) template
- ✓ configure location of new VMs
- ✓ configure VHD template
- ✓ deploy from template
- √ save a deployment as an ARM template
- ✓ deploy Windows and Linux VMs

### 3.3 Manage Azure VM

- √ add data discs
- ✓ add network interfaces
- ✓ automate configuration management by using PowerShell Desired State

### 3.4 Configuration (DSC) and VM Agent by using custom script extensions

- ✓ manage VM sizes
- ✓ move VMs from one resource group to another
- √ redeploy VMs

### 3.5 Manage VM backups

- ✓ configure VM backup
- ✓ define backup policies
- √ implement backup policies
- ✓ perform VM restore



# Module 4: Configure and manage virtual networks

### 4.1 Create connectivity between virtual networks

- ✓ create and configure VNET peering
- ✓ create and configure VNET to VNET
- ✓ verify virtual network connectivity
- ✓ create virtual network gateway

### 4.2 Implement and manage virtual networking

✓ configure private and public IP addresses, network routes, network interface, subnets, and virtual network

### 4.3 Configure name resolution

- ✓ configure Azure DNS
- ✓ configure custom DNS settings
- ✓ configure private and public DNS zones

### 4.4 Create and configure a Network Security Group (NSG)

- ✓ create security rules
- ✓ associate NSG to a subnet or network interface
- √ identify required ports
- ✓ evaluate effective security rules

# **Module 5: Manage identities**

### 5.1 Manage Azure Active Directory (AD)

- ✓ add custom domains
- ✓ configure Azure AD Identity Protection, Azure AD Join, and Enterprise State Roaming
- ✓ configure self-service password reset



- √ implement conditional access policies
- ✓ manage multiple directories
- ✓ perform an access review

# 5.2 Manage Azure AD objects (users, groups, and devices)

- ✓ create users and groups
- ✓ manage user and group properties
- ✓ manage device settings
- ✓ perform bulk user updates

### 5.3 Implement and manage hybrid identities

- ✓ install and configure Azure AD Connect
- ✓ configure federation and single sign-on
- √ manage Azure AD Connect
- ✓ manage password sync and writeback