DVSTechnologies

DVS AZURE ADMIN COURSE CONTENT

INTRODUCTION TO CLOUD

- What is Cloud?
- History and evolution of cloud
- Cloud Computing Concepts
- Public, Private, Hybrid Clouds
- IAAS, SAAS, PAAS Cloud Models
- Public Clouds
 - o Amazon Web Services, Azure, Oracle Cloud, IBM Cloud

MODULE 1: AZURE INTRODUCTION

- Cloud Keywords
- Create Azure Account
- Billing Alert
- Azure tour
- Azure vocabulary
- Subscription management
- Cost Analysis & Management

MODULE 2: AZURE ACTIVE DIRECTORY - PART1

- Azure AD Introduction
- Creating user without permissions
- Granting access at the resource level
- Granting access at the resource group level
- Granting access at the subscription level
- Creating custom roles
- Granting custom roles to the user

MODULE 3: AZURE VIRTUAL MACHINE

- Creating a virtual machine
- Login to VM
- Boot strap custom data
- Custom script extension
- working with extra disk
- Disk snapshot
- Azure shared disks
- VM resize

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- Adding network interface
- Custom image creation
- Managed VS Unmanaged disks
- Boot diagnostics & Console connect

MODULE 4: VIRTUAL MACHINE AVAILABILITY

- Introduction for infra availability
- Availability sets
- Availability zones
- Azure scale sets
- Proximity placement group
- Azure redeploy

MODULE 5: AZURE VM BACKUP

- Backup for the virtual machines
- Restore files from backup
- Restore vm from backup
- Soft deletion of backup
- Azure backup agent
- Azure site recovery for the virtual machine

MODULE **6**: VIRTUAL NEWTORK

- Introduction to server networking
- Create VNET with subnets
- Create a server from custom subnet
- Creating bastion/jump host
- Working with public ip's
- Working with network interfaces
- Network security group at interface level
- Network security group at subnet level
- Virtual network peering
- User defined routes

MODULE 7: VIRTUAL PRIVATE NETWORK AND FIREWALL

- Point to Site VPN
- Site to Site VPN
- VPN S2S VNET Peering
- High availability for VPN gateway
- Virtual WAN Service
- Azure network wacher

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- Firewall DNAT
- Firewall restrict the internet
- Private DNS
- Public DNS

MODULE 8: APP SERVICES

- Service Plan creation
- Using visual studio
- Create a sample application
- Webapp creation
- Expore webapp
- Deployment slots
- Webapp autoscalling
- Virtual network integration
- Webapp custom domains

MODULE 9: LOAD BALANCER

- Introduction about load balancer
- Load balancer with VM's (Basic & Standard)
- Basic LB with availability sets
- Basic LB with Inbound NAT rules
- Basic LB with VMSS
- Standard LB with AVS
- Standard LB with VMSS
- Standard LB with multiple backend pools
- Standard LB with Inbound NAT rules
- Standard LB SNAT
- Application gateway Context based routing
- Application gateway Multiple sites

MODULE 10: AZURE STORAGE

- Introduction about storage
- Blob service
- Accessing data using shared access signature
- Accessing data using Storage explorer
- Accessing data using AD users
- Data redundancy LRS,ZRS,GRS,RAGRS,GZRS
- Storage access tiers
- Storage lifecycle polies
- Object replication
- Azure file share

• Firewall and network settings

MODULE 11: AZURE CONTAINER REGISTRY

- Introduction about registry
- Working with az registry

MODULE 12: AZURE CONTAINER SERVICE

- Introduction about containers
- Working with azure container instances
- Azure container groups

MODULE 13: AZURE KUBERNETES SERVICE

- Deploying azure kubernetes service
- AKS using CLI
- Using azure storage for deployments

MODULE 14: MONITORING AND LOGGING

- Introduction about montoring & metrics
- Activity logs & alerts
- Log analytics
- Sending custom logs
- Dashboards
- Application insights
- Resource tags
- Resource management
- Locks

MODULE 15: AZURE ACTIVE DIRECTORY - PART2

- Active directory groups
- Active directory rules
- Adding VM to AD
- Password and MFA for users
- Conditional access