

Cloud Computing Trainings @ STUCORNER & SHARPENCLOUD



Microsoft Azure Course Content

Lesson 1: Introduction to Azure

1. Overview of On-premise infrastructure
2. Transition from On-premise to datacenter housing & managed datacenters and finally to cloud
3. Overview of Cloud deployment models
4. Overview of Azure accounts and subscriptions
5. Overview of different admin roles - Account admins, Service admins and Co-Admins
6. Overview of different Azure portals
7. Azure account creation through Microsoft or Organization account.
8. Managing Azure through Azure portal
9. Managing Azure through Azure PowerShell
10. Azure PowerShell basics

Lesson 2: Implementing and Managing Azure Networking

1. Overview of Azure networking and Vnet solutions
2. VNET implementation using Azure portal
3. Network Configuration file



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4. Affinity group and regional VNET
5. Azure DNS and its requirement
6. Azure Addressing
7. Cross premises connectivity overview
8. Implementing Point to Site VPN gateway
9. Implementing Site to site VPN gateway using VNET to VNET gateway
10. VNET Peering
11. Express routing in Azure
12. VPN vs. IP VPN

Lesson 3: Planning and implementing Azure Data services - Storage, Backup and Recovery

1. Overview of Azure Data services.
2. Azure storage account and creation
3. Azure storage account Redundancy models
4. Azure Storage account types
5. Overview and Implementation of Blob Storage through portal and PowerShell
6. Overview and Implementation of Table Storage through portal and PowerShell
7. Overview and Implementation of Queue Storage through portal and PowerShell
8. Overview and Implementation of File Storage through portal and PowerShell
9. Overview of Azure Backup and Backup Vault
10. Azure Backup components and differences between these components
11. Implementing Azure Site Recovery



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Lesson 4: Planning and implementing Azure SQL database

1. Overview of Relational database.
2. Types of RDP service offering from Azure - IAAS and PAAS based
3. Azure SQL database - Service Tiers
4. Overview of performance metrics
5. Implementing Azure SQL database - Creation, security and monitoring
6. Migration of MS SQL server database to Azure SQL database
7. Restoring a database
8. Provision, configure, and manage the Azure SQL Database data management service.
9. Manage data recovery and availability for Azure SQL Database.

Lesson 5: Implementing Azure Cloud service

1. Overview of Azure ASM model/Classic model
2. Planning and deploying Azure cloud services
3. Managing and maintaining cloud services
4. Configuring deployment slots and Remote Desktop Protocol (RDP)
5. Monitoring Cloud service
6. Configure PaaS cloud services by using configuration files or the Azure portal.
7. Differences between ARM and ASM deployment models

Lesson 6: Implementing and managing Virtual machines

1. Overview of IaaS v2 virtual machines
2. Planning and deploying for Azure virtual machines



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3. Authoring Azure Resource Manager templates
4. Using Azure PowerShell and an Azure Resource Manager template to deploy virtual machines
5. Implementing desired state configuration (DSC)
6. Implementing storage space–based volume
7. Implementing Azure load balancers]

Lesson 7: Implementing Azure App services

1. Introduction to App Service
2. Planning app deployment in App Service
3. Implementing and maintaining web apps
4. Configuring web apps
5. Monitoring web apps and Web Jobs
6. Overview and implementation of Traffic manager
7. Select an App Service plan and deployment method for apps in Microsoft Azure
8. Use Microsoft Visual Studio, File Transfer Protocol (FTP) clients, and Azure PowerShell to deploy web and mobile apps to Azure
9. Configure web apps and use the Azure Web Jobs feature to schedule tasks.
10. Use Azure Traffic Manager to distribute requests between two or more app services.

Lesson 8: Implementing Azure Active Directory

1. Creating and managing Azure AD tenants
2. Configuring application and resource access with Azure AD
3. Overview of Azure AD Premium
4. Administering Active AD
5. Configuring SSO



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6. Configuring Multi-Factor Authentication
7. Configuring SSO from a Windows 10–based computer that is joined to Azure AD
8. Extending on-premises Active Directory domain to Azure
9. Implementing directory synchronization by using Azure AD Connect
10. Implementing federation
11. Configuring directory synchronization



Other Cloud Computing Trainings @ STUCORNER & SHARPENCLOUD



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