

Microsoft Azure Course

Syllabus

Course goals: The "Microsoft Azure" is a complete cloud platform that can host your existing applications and simplify the development of new applications. Microsoft Azure can even improve local applications. Azure integrates the cloud services you need to develop, test, deploy and manage your applications and, all of this, while taking advantage of cloud computing. Provides instructions and guidance to start creating new applications in Microsoft Azure, or to migrate existing applications to Microsoft Azure.

Course Duration: 100Hrs

Syllabus

- Introduction to Microsoft Azure and Its Services
 - Azure Subscriptions
 - Azure Resources
 - Azure Free Tier Account
 - Azure Resource Manager Template
 - Azure Storage
 - Types of Azure Storage
- Types of Azure Storage
 - Azure Resource Manager Virtual Machine
 - Virtual Machines in ARM Template
 - Overview of Azure Virtual Machine
 - Azure Managed Disks
 - Azure Blob Storage
 - Networking in Azure
 - Subnets, NIC, NSG, IP Addresses, DNS
- Azure VMSS and Availability Zones
 - Resiliency
 - Azure Availability Sets
 - Azure Availability Zone
 - Auto scaling
 - Virtual Machine Scale Set
 - Fault Domain
 - Update Domain

- Load Balancer
- Application Gateway
- Azure Disk Encryption
- Azure App Services and Its Features
 - Azure App Service Web Apps
 - App Service Security
 - Server less Computing Concepts
 - Function Apps
 - Azure Event Grid
 - Azure Service Bus
 - Azure App Service Logic App
 - Using Shell Commands to create Web App
 - Background Tasks
 - Swagger tool
- Azure Hybrid Connectivity and Site Recovery
 - Hybrid Connectivity
 - VNet S2S VPN
 - VNet Peering
 - Service Chaining
 - Azure VPN Gateway
 - Policy Based Gateway
 - Route Based Gateway
 - Swagger tool
 - Gateway Connections
 - Express Route
 - VNet Routing
 - User Defined Route
 - Border Gateway Protocol
- Azure Storage Solution and Design Patterns
 - Azure Architecture Centre
 - Cloud design patterns
 - Cache-aside pattern
 - Sharding Pattern
 - Azure SQL DB
 - Azure Elastic Pool
 - Azure Data Lakes
 - Azure Data Factory
 - Azure Cosmos DB
- Azure Kubernetes Service
 - Application Environment Components
 - Docker
 - Docker File
 - Docker Image
 - Azure Container Registry
 - Azure Container Instance

- Orchestration
 - Azure Kubernetes Service
 - Diagnostics Logs
- Azure Active Directory and Role Based Access Control
 - Access Control
 - Role Based Access Control
 - Authentication in applications (certificates, Azure AD, Azure AD Connect, token-based)
 - Multi-factor authentication (MFA)
 - Claims-based authorization
 - Role-based access control (RBAC) authorization
 - End-to-end encryption
 - Azure confidential computing
 - SSL and TLS communications
 - Azure Key Vault
 - Configure Fraud alerts
 - Bypass option, trusted IPs
 - Managed Service Identity
 - Service Principal authentication
- Azure Messaging Service (Events, Hubs, Queue and Bus)
 - Azure Messaging Service
 - Azure Service Bus
 - Azure Events Hub
 - Azure Events Grid
 - Azure Notifications Hub
 - Auto Scale Ruling in Azure
 - Transient Fault Handling
- Azure Monitoring and Insights Service
 - Azure Monitoring
 - Azure Analytics
 - Azure Alerts
 - Azure Resource Metrics
 - Azure Activity Log
 - Service Health
 - Azure Log Analytics
 - Azure App Insights
- AZURE POWER SHELL BASICS
 - Using ARM
 - Using ASM

ALL THE BEST