Azure Cloud Syllabus

1. Introduction to Cloud Computing

- . What is Cloud Computing
- Advantages of Cloud Computing
- Types of Cloud's
- Different Cloud Services SaaS, PaaS and IaaS

4. Load balancer and Traffic Manager

- Configure Load balancer and traffic manager
- Overview of Traffic Manager
- Configuring Traffic manager Overview and configuring of firewall Create and configure VNET peering Create and configure VNET to VNET

2. Core Concepts of Azure

- Introduction to Microsoft Azure
- Creation of Azure Account
- Azure Physical Structure
- Azure Management Infrastructure
- Create Azure resource

Create Blob Storage

3. Azure Compute and network services

- Azure Virtual Machines
- Azure Containers
- Azure Functions
- Application Hosting Options
- Azure Virtual Network
- Configure Network Access
- Azure Virtual Private Network
- Azure ExpressRoute
- Azure DNS

Azure Storage account

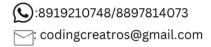
5. Azure Storage Services

Azure Storage redundancy Azure Storage Services Azure Migration Options Azure File Movement

Azure Identity, access and security

Azure Directory Services Azure Authentication Methods Azure External identities Azure Conditional access Azure rolebased access control Microsoft **Defender for cloud**





7. Microsoft Cloud Adoption Framework for Azure

Automating Deployment with a multi-stage Release Pipelines

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- Define Strategy
- Plan Ready
- Adopt
- Govern & Manage

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8. Microsoft Azure Well-Architecture Framework

- Azure Well-Archtected Framework pillars
- Cost optimization
- Operational excellence
- Performance efficiency
- Reliability
- Security
- Features of Azure test plan
- Managing Test Plans, Suites and Cases
- · Subscribe to the test plan free trial
- Azure Test and Feedback extension

9. Azure App Services

- Overview of App services
- · Deploying the web app
- Configuring the App Services
- Scaling of Websites
- Overview of Logic App's
- . Configuring the Logic App's
- Practical Session

10. Azure Recovery Service Vault

- Overview of Azure Recovery Service Vault
- Creating Recovery Service Vault
 Create and configure backup policy
 Configure VM backup
 Configure file backup
 Practical Session

11. Azure Backups

Restore the VM Backups
Restore the File Backup
Overview of Disaster Recovery
Configuring the DR for the VMs
Replicating the VM's using ASR

Practical Session

12. Azure Monitoring

Overview of Azure Monitoring
Configuring the Alerts
Creating the Azure alerts using Azure Monitor
Overview of Azure advisors
Automating the Patch Management
Practical Session



13. SQL Servers

- Overview of the SQL Servers
- Configuring the Log Analytic Workspace
- Configuring Logs for Azure services
- Practical Session

14. Azure Database

- Configuring the databases in the Azure
- Advance Capabilities
- · Benefits of SQL Database
- Scaling SQL Database
- Practical Session

15. Database Backup

- Configuring the database backups Configuring the
- database backups Configuring the Authentication for
- the SQL Databases Restoring the Corrupted database
- Practical Session

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