S V
Cloud Consulting &Training Services

Trainer: SreeKiran

- Cloud Introduction
    - What is Cloud
    - Public vs Private vs Hybrid Cloud
    - Industry leading Public & Private Cloud Providers

- Introduction to Azure Cloud
    - Overview of Azure
    - Managing Azure with the Azure portal
    - Overview of Azure Resource Manager (ARM)
    - Azure Service Manager vs Azure Resource Manager
    - Different types of Services available in Azure
    - IaaS vs PaaS vs SaaS vs CaaS

- Provisioning & Configuring Services through Azure Portal
    - Storage Accounts
    - Key Vault
    - Virtual Network
    - Subnets
    - Network Security Groups (NSGs) & Application Security Groups (ASGs)
    - Network Interface Card
    - Virtual Machines
    - Virtual Machine Scale sets
    - Availability Sets vs Availability Zones
    - Azure Load Balancers
    - Azure Virtual Network Peering (Regional & Global)
    - Understanding concepts on premise connectivity
        - VPN (Site to Site & Point to Site)
        - Express Route
    - Azure SQL Server
    - Azure Cosmos DB
    - Azure Web Apps
    - Understanding of Azure Application Gateways, Web Application Firewall, Front door & Traffic Manager
    - Azure Function Apps
    - Azure Logic Apps
    - Azure Automation Account
    - Azure Backup Services

- Azure PowerShell
    - Installing Azure PowerShell
    - Windows PowerShell vs Azure PowerShell
    - Introduction to Operators, Conditions and Loops
    - Provisioning below service using Azure PowerShell

- o Storage Account
- o Virtual Machines
- o Azure SQL Databases
- o Azure Web Apps
  - Introduction to PowerShell Functions
  - Introduction to PowerShell Modules

- Azure Security
  - Securing Network
  - Private Endpoints
  - Service Endpoints
  - Encryption
- Azure Monitor
  - Enabling Diagnostic Settings
  - Log Analytics
  - App Insights
  - Action Groups
  - Alert management

- Terraform
  - Installing Terraform
  - What is terraform Provider
  - Instruction to Azure & Other Providers
  - Terraform State (Remote vs Local)
  - Introduction to Operators, Conditions and Loops
  - Terraform CLI Commands (Init, Plan, Apply, Destroy etc.)
  - Provisioning below service using Terraform
    - o Storage Account
    - o Virtual Machines
    - o Azure SQL Databases
    - o Azure Web Apps
  - Introduction to Terraform Modules

- Azure Devops
  - Instruction to Azure Devops
  - Continuous Integration VS Continuous Deployment VS Continuous Delivery
  - Introduction to Service Connection
  - Introduction to Devops Agents
  - Parameters vs Variables
  - Classic Pipelines vs YML Pipelines
  - Introduction to Azure Tasks, Variable Groups & Reusable Controls
  - Prepare CI and CD Pipelines for
    - o ARM Template Deployment

- o   Terraform Template Deployment
- o   Azure PowerShell Deployment
- o   Sample .Net Application

- **Azure Active Directory**
  - What is Azure Active Directory
  - What is Service Principle Account (App Registrations)
  - Azure Build-In and Custom Roles
  - Access Control (RBACs)

- **Docker & Azure Kubernate Services (AKS) fundamentals**
  - Introduction to Docker
  - Virtual Machine VS Docker
  - Installing & Managing Docker Engine
  - Deploy & Manage Containers
  - Introduction to AKS
  - Deployment and Manage AKS in Azure Portal & Terraform
- **Additional Topics**
  - What is Azure SLA for various Services
  - Azure Infrastructure DR Strategies
  - What are Azure Migration Services Available in Azure
  - Azure Cost Calculator, Invoices & Billing Optimization
  - Azure Policies & Implementation
  - Agile Methodology and Process
  - Important Interview Questions and Answers

Notes:
- Duration 45 days
- Only on Weekdays (No Saturdays & Sundays).
- Daily 1.30 hours
- Special focus on real time examples

Demo Classes on19th & 20th Aug 2023