Microsoft
Azure Administrator

Intro to Cloud Computing

Intro to Datacenters

Intro to Cloud Models. IaaS, PaaS and SaaS.

Intro to Azure Subscription, Resource Group& Tagging

Creating your First Azure Subscription

A walk through to Azure Resource Manager (ARM) Portal

Networking in Azure

-Intro to Virtual Network

-Intro to Azure Virtual Network or Azure vNets

-Components on Azure vNet: Subnet, Routing
 Table, Routes, Gateways

-Azure Global vNet Peering

-Azure Bastions

-Azure Firewall

-IP Sec Site-to-Site VPN

Name Resolution in Azure

-Intro to Name Resolution

-Intro to Azure DNS Zones

-Domain Registration

-Create DNS Zone and records

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Virtualization in Azure

-Intro to Azure Virtual Machines

-Create an Azure VM

-Password and Key based authentication

-Cloud In-It Scripts

-Discs and redundancy in VM

-Create custom Images

Azure VM High Availability

-Azure Architecture and Terminology

-Understanding Azure Load Balancer

-Front End IP, Backend Pools, Load Balancing Rules,
 Health Probe

-Implementing Azure Load Balancer

-Dynamic Scaling with Azure VM Scale Set

-Configuring Azure VM Scale Set

-Scale-In and Scale-Out Rules

Hosting Application in Azure

-Understanding Azure App Service

-Implementing Azure App Service

-Creating GitHub repo for Azure Deployment

-Deploying Application on Azure App Service

-Custom Domains, Security, etc.

Application High Availability in Azure

-Understanding Concepts of Azure Traffic Manager
-Implementing Azure Traffic Manager
-Understanding Azure Application Gateway
-Implementing Azure Application Gateway

Azure Storage

-Azure Storage Account Overview
-Redundancy, Security, etc.
-Azure BLOB's
-Create BLOB Containers and upload objects
-Object URL, Versioning, Backup and Snapshot
-Configure Azure CDN for BLOB Objects
-Configuring Azure Storage Explorer
-Azure Files Overview
-Creating Azure File Share
-Mount Azure File Share on Windows
-Using AzCopy

Backup in Azure

-Intro to traditional backup
-Intro to Recovery Service Vault
-Creating the Vault and registering the Node
-MARS Agent download, Deploy and \
 Registration
-Backup Schedule and Data Recovery

User Identity in Azure

-Intro to Azure Active Directory
-Comparing Azure Active Directory and Windows
 Active Directory
-Creating User and Groups in Azure AD
-Azure AD Connect Download and Installation
-Sync Windows AD with Azure AD using Azure Ad Connect

Role Based Access Control in Azure

-Intro to authorization in Azure
-Resource IAM
-Policies in Azure
-Create Custom Policy to manage resource

Monitoring in Azure

-Understanding and configuring monitoring in Azure
-Understanding and configuring alerts in Azure

Containers in Azure

-Intro to containers
-Intro to Docker
-Creating AKS Cluster
-Deploying Containers
-Scaling Kubernetes

Azure Architecture Best Practices

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