Cloud Computing on Azure Cloud

Module 1:

Azure overview

Create Your Azure Free Account

Login and understanding the resources

Azure management

Subscription, support and billing

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Module 2:

Introduction to Cloud Computing

Advantages of Microsoft Azure Cloud Computing

Economies of Scale. Understanding CapEx and OpEx

Azure Global Infrastructure - Regions and AZs

Azure Management Interfaces - Interacting with Azure

Cloud Platform

Serverless computing

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Module 3:

Microsoft azure management tools

Azure PowerShell

Azure SDK and CLI

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Module 4:

Create a Billing Alarm for Azure Account

Introduction to Azure Virtual Machines

Azure VMs Networking and HA Fundamentals

Launch Linux VM in Azure Cloud

Connect to Linux VM from Windows PC

Configure Ubuntu VM as a Web Server Azure Configuration Disks

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Module 5:

Web applications and cloud services

Creating and configuring the web apps

Deploying and monitoring web apps

Creating and deploying PaaS cloud services

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Module 6:

Azure Compute Options Introduction

Azure Containers Fundamentals

Azure App Service Fundamentals

Azure Serverless Computing Fundamentals

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Module 7:

Introduction to Azure Storage

Azure Blob Storage Fundamentals

Azure Managed Disks

Azure Files Storage

Azure Queues Storage

Azure Tables Storage

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Module 8:

Azure Database

Azure SQL Database/Creating and connecting database

Azure Database for MySQL

Azure Database Migration Service Introduction

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Module 9:

Azure Resource Manager

Resource Groups Fundamentals

Azure Tags Fundamentals

Azure Policy Fundamentals

Azure Locks Fundamentals

Module 10:

Azure Compliance, Regulations & Standards

Azure Blueprints

Azure Advisor

Azure Monitor & Azure Service

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Module 11:

Azure Cloud Shared Responsibility Model/Azure security

Optimize your Security with Azure Security Center

Azure Identity Services - Azure Active Directory

Multi-factor Authentication Fundamentals

Azure Security Services - Firewall and DDoS Protection

Encryption Fundamentals and Azure Key Vault

Azure AIP and ATP Fundamentals 101

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Module 12:

Introduction to Azure Pricing

Azure TCO Calculator

Azure Advisor and Azure Cost Management

Azure Cost Management Best Practices

Azure Support Plans

Azure Service Level Agreements (SLAs)

Module 13:

Azure Load Balancer and Traffic Manager Fundamentals

Create Azure Load Balancer

Configure Two Webservers and Test LB

Module 14:

Azure AD

Describing and practicing azure ADs

Managing Azure AD authentication

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