AZURE CLOUD COURSE

Course Curriculum

Module 1: Introduction to Cloud Computing

- Definition and Essential Characteristics
- Cloud Service Models (IaaS, PaaS, SaaS)
- Deployment Models (Public, Private, Hybrid, Community)
- The Evolution of Cloud Computing
- Historical Perspective and Technological Advancements
- Market Trends and Future Outlook

Module 2: Azure as a Cloud Platform

- Overview of Azure Services and Ecosystem
- Azure's Architecture and Global Infrastructure
- Setting Up an Azure Account and Navigating the Azure Portal
- Azure Pricing and Support Plans

Module 3: Cloud Computing Concepts

- Virtualization Technologies
- Computing Resources Management in the Cloud

Module 4: Azure Computing Services

- Azure Virtual Machines and App Services
- Azure Kubernetes Service (AKS) and Containers

Module 5: Understanding Cloud Storage

- Types of Cloud Storage (Object, Block, File)
- Data Redundancy and Replication Strategies

Module 6: Azure Storage Solutions

- Azure Blob Storage and File Storage
- Implementing Azure Storage Security

Module 7: Basics of Cloud Networking

- Network Models in the Cloud
- IP Addressing and DNS in Cloud Environments

Module 8: Azure Networking Services

- Azure Virtual Network and Subnetting
- Azure Load Balancers and Network Security Groups (Overview)

Module 9: Deploying a Java App to the Cloud

- Overview of Java App Development for Cloud
- Containerizing Java Applications
- Hands-On: Deploying a Java App to Azure App Service

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