KIDS & TEENS FREELANCING TRAINING INSTITUTE

Microsoft Azure Course Outline

Module 1: Introduction to Microsoft Azure

- What is Microsoft Azure and how it powers the cloud
- Real-life example: Using apps and services powered by Azure
- Key Azure services: Compute, Storage, Networking, and Databases
- Overview of Azure management tools
- Activity: Sign up for Azure and explore the dashboard

Module 2: Azure Virtual Machines and Compute Services

- Understanding Virtual Machines (VMs) in Azure
- Real-life example: Running a web server on a virtual machine
- How to create, configure, and manage VMs in Azure
- Activity: Set up a virtual machine and connect to it

Module 3: Azure Storage Solutions

- Azure Blob, File, and Disk Storage
- Real-life example: Storing and accessing files in the cloud
- How to manage and back up your data on Azure
- Activity: Upload files to Azure Blob Storage

Module 4: Azure Networking

- Overview of networking in Azure: Virtual Networks and Subnets
- Real-life example: Connecting different regions of a company's infrastructure
- Setting up Azure networking and security groups
- Activity: Configure a virtual network in Azure

Module 5: Azure Databases and Services

- Introduction to Azure Database services
- Real-life example: Using Azure SQL Database for managing customer data
- How to set up and manage databases on Azure
- Activity: Create an Azure SQL Database and query data

Module 6: Azure Security and Identity Management

- Securing your Azure resources with Azure Active Directory
- Real-life example: Managing who has access to company resources
- Introduction to Azure security features: Firewalls, Encryption, and RBAC
- Activity: Set up security policies and manage user access

Module 7: Azure Monitoring and Troubleshooting

- Monitoring Azure services and resources using Azure Monitor
- Real-life example: Tracking performance and uptime of cloud applications
- Setting up alerts and dashboards for cloud resources
- Activity: Configure monitoring and alert rules in Azure

Module 8: Azure Certification and Career Paths

- Preparing for Microsoft Azure certification exams
- Real-life example: How Azure certifications help in IT careers
- Key career paths: Cloud Architect, Azure Engineer, Solutions Architect
- Activity: Research a career path in Azure and start preparing for exams

Bonus Materials

- Study guide for Microsoft Azure certifications
- Azure CLI commands and cheat sheet
- Video tutorials for hands-on Azure labs
- Certificate of Completion for Microsoft Azure Fundamentals