

# Azure Local

**Course Duration: 3 Days (8 Hours per Day)**

## Course Overview:

This course provides a comprehensive understanding of Azure Local, covering deployment, workload management, networking, security, monitoring, and troubleshooting. The hands-on sessions will ensure participants gain practical experience in deploying and managing Azure Local environments effectively.

## Who Should Attend?

- IT Administrators & System Engineers
- Cloud Architects & DevOps Engineers
- Azure Professionals managing hybrid workloads

## Prerequisites:

- Basic knowledge of Azure services
- Familiarity with virtualization, networking, and storage

## Day 1: Introduction & Deployment of Azure Local

**Total Duration: 8 Hours**

### Module 1: Introduction to Azure Local

- What is Azure Local?
- Key features and use cases
- Differences between **Azure Local**, **Azure Stack HCI**, and **Azure Arc**
- Understanding hybrid cloud capabilities

### Module 2: Azure Local Architecture & Core Components

- Compute, Networking, and Storage in Azure Local
- Hybrid capabilities and integration with Azure services
- Security considerations and compliance
- Hands-on: Exploring Azure Local in the Azure Portal

### Module 3: Deploying Azure Local

- System requirements and prerequisites
- Installation and configuration process

- Registering with Azure Arc
- Troubleshooting deployment issues
- Hands-on: **Deploying Azure Local and registering with Azure Arc**

## **Day 2: Workload Management, Monitoring & Security**

**Total Duration: 8 Hours**

### **Module 4: Managing Workloads on Azure Local**

- Deploying and managing Virtual Machines (VMs)
- Running Azure Kubernetes Service (AKS) on Azure Local
- Using Azure Virtual Desktop (AVD) on Azure Local
- Managing workloads using Azure Arc
- Hands-on: **Deploying a workload (VM or AKS cluster) on Azure Local**

### **Module 5: Monitoring & Security in Azure Local**

- Monitoring Azure Local using Azure Insights
- Enabling Insights at scale for workload health monitoring
- Understanding alerts and troubleshooting performance issues
- Implementing security best practices in Azure Local
- Integrating with **Microsoft Defender for Cloud**
- Hands-on: **Setting up monitoring and security policies for Azure Local**

## **Day 3: Advanced Management, Networking & Troubleshooting**

**Total Duration: 8 Hours**

### **Module 6: Networking in Azure Local**

- Understanding Azure Local networking architecture
- Network configurations and connectivity options
- Integrating with on-prem and cloud networks
- Networking best practices for hybrid deployments
- Hands-on: **Configuring and testing network connectivity in Azure Local**

### **Module 7: Advanced Management & Troubleshooting**

- Scaling Azure Local deployments
- Managing and adding new nodes

- Collecting and analyzing logs for troubleshooting
- Common deployment and operational issues
- Accessing Microsoft support for issue resolution
- Hands-on: **Diagnosing and resolving common Azure Local issues**