Deploy and configure Azure Monitor - Applied Skills Workshop Training

Duration: **1 Day**

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Overview

This hands-on workshop focuses on implementing Azure Monitor to collect, analyze, and respond to operational and performance telemetry across Azure environments. Participants will learn how to monitor applications, virtual machines, networking resources, and cloud services using Azure's centralized monitoring platform.

The course provides practical experience with Log Analytics, Application Insights, alerting mechanisms, and operational visibility tools that help organizations maintain healthy and reliable cloud environments.

Prerequisites

Important: Multi-Factor Authentication (MFA) requirements should be completed before attending the course.

Participants should have a basic understanding of:

- Azure Monitor fundamentals
- Log Analytics workspaces
- Azure Portal administration
- Core Azure resource management concepts

What You Will Learn

By the end of this workshop, participants will be able to:

- Create and manage Log Analytics workspaces
- Monitor application performance and telemetry
- Deploy and configure Azure Monitor Agent on virtual machines
- Implement monitoring solutions for Azure networking resources
- Configure alerts, notifications, and automated responses
- Establish centralized monitoring and operational visibility across Azure environments

Outline

Module 1: Creating and Managing Log Analytics Workspaces

Learn how to build and configure the foundation of Azure Monitor's data collection platform.

Topics Covered

- Introduction to Log Analytics

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- Creating workspaces
- Access and permission management
- Data retention configuration
- Workspace health monitoring and alerting

Module 2: Application Monitoring

Explore tools and techniques for collecting telemetry and improving application performance.

Topics Covered

- Understanding Application Insights
- Telemetry collection strategies
- Sampling configuration
- Diagnostic settings and resource logs
- Azure SQL Insights

Module 3: Monitoring Virtual Machines

Learn how to monitor Azure IaaS virtual machines and collect operational telemetry.

Topics Covered

- Deploying Azure Monitor Agent
- Configuring VM Insights
- Performance monitoring
- Data Collection Rules (DCRs)
- Log collection and analysis

Module 4: Monitoring Virtual Networks

Gain visibility into network connectivity, traffic flows, and infrastructure performance.

Topics Covered

- Azure Network Watcher
- Network topology analysis
- Connection Monitor
- NSG diagnostics
- IP Flow Verify
- Packet Capture

Module 5: Alerts and Automated Responses

Learn how to proactively identify issues and automate operational responses.

Topics Covered

- Azure Monitor Alerts
- Action Groups
- Alert Rule configuration
- Alert Processing Rules

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- Azure Monitor Change Analysis

Module 6: Guided Project – Deploy and Configure Azure Monitor

Apply the concepts learned throughout the course in a practical lab environment.

Hands-on Activities

- Creating Log Analytics workspaces
- Configuring application monitoring
- Implementing VM monitoring
- Monitoring Azure networking resources
- Creating alerting and notification solutions
- Managing operational visibility across Azure services