



Deploy and configure Azure Monitor

Course AZ-1004: 1 day; Intermediate; Instructor-Led

Introduction

In this learning path, you practice implementing Azure Monitor to collect, analyze and act on monitoring telemetry from Azure environments. You learn to configure and interpret monitoring for virtual machines, networking, and web applications.

Prerequisites

- Understand the basic functionality of Azure Monitor and Log Analytics workspaces.

Course Outline

Module 1: Create and configure a Log Analytics workspace

Understand how to create and configure a Log Analytics workspace, and how to configure data retention and health status alerts for the workspace.

In this module, you will learn to:

- Create a Log Analytics workspace
- Configure access to a Log Analytics Workspace
- Configure data retention for a Log Analytics workspace
- Configure Health Status Alerts for a Log Analytics workspace

Lessons

- Create a Log Analytics workspace
- Configure access to Log Analytics workspaces
- Configure Log Analytics data retention
- Configure Log Analytics health status alerts

Module 2: Configure monitoring for applications

Understand how to monitor the performance of your applications and how to collect and analyze the appropriate telemetry to improve application performance.

In this module, you will learn to:

- Describe how Application Insights is used to monitor application performance
- Distinguish between the different Application Insights sampling rates
- Describe Azure diagnostic settings and resource logs
- Leverage Azure SQL Insights to improve performance of Azure SQL database applications

Lessons

- Understand Application Insights
- Application Insights sampling
- Diagnostic settings and resource logs
- Azure SQL Insights

Module 3: Configure monitoring for virtual machines

Understand how to deploy and configure Azure Monitor Agent on IaaS VMs and how to enable VM Insights and Data Collection Rules to monitor performance and application telemetry.

In this module, you will learn to:

- Describe the Azure Monitor Agent and how it can be deployed to IaaS Virtual Machines
- Explain VM Insights and how to use it to monitor IaaS VM performance

- Enable data collection rules to collect operating system and application logs

Lessons

- Deploy Azure Monitor Agent to IaaS Virtual Machines
- Monitor Performance with VM insights
- Configure data collection rules for IaaS VM logs

Module 4: Configure monitoring for virtual networks

Understand how to use Azure Network Watcher Connection Monitor, flow logs, NSG diagnostics, and packet capture to monitor connectivity across your Azure IaaS network resources.

In this module, you will learn to:

- Create and configure an Azure Network Watcher Connection Monitor
- Create and configure a flow log
- Enable Traffic Analytics
- Configure access to flow logs

Lessons

- Topology
- Connection Monitor
- IP flow verify and NSG diagnostics
- Packet capture

Module 5: Configure alerts and responses

Understand how to configure and manage alerts and responses in order to proactively manage notifications about potential issues before those issues become problems for your users.

In this module, you will learn to:

- Describe the purpose of and identify the different types of alerts
- Explain how action groups are used to notify users about alerts
- Configure and manage alert rules
- Configure alert processing rules to modify triggered alerts
- Describe how Change Analysis provides insight into changes made to Azure resources

Lessons

- Azure Monitor alerts
- Action groups
- Alert rules
- Alert processing rules
- Azure Monitor change analysis

Module 6: Guided Project – Deploy and configure Azure Monitor

Understand how to configure monitoring of various workloads and infrastructure services using Azure Monitor.

In this module, you will learn to:

- Deploy and configure Log Analytics.
- Configure monitoring for Web apps.
- Monitor compute and networking services.
- Configure alerts.

Lessons

- Exercise - Prepare your Azure environment
- Exercise - Deploy Log Analytics
- Exercise - Monitor web apps
- Exercise - Configure monitoring for compute services
- Exercise - Configure alerts