

MS-AZ1004: DEPLOY AND CONFIGURE AZURE MONITOR



DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
1 Day	Intermediate	Azure	Instructor-led	NA

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.

AUDIENCE PROFILE

The audience profile for deploying and configuring Azure Monitor typically includes:

- IT Administrators: Responsible for managing and maintaining the IT infrastructure, ensuring that Azure Monitor is properly deployed and configured to monitor resources effectively.
- DevOps Engineers: Focused on integrating monitoring solutions into the CI/CD pipeline, ensuring that applications and services are continuously monitored, and any issues are promptly addressed.
- Cloud Architects: Design and implement cloud solutions, including monitoring strategies to ensure the health and performance of cloud resources.
- Application Developers: Need to understand how to configure monitoring for their applications to track performance, detect issues, and optimize resource usage.
- Security Teams: Use Azure Monitor to track security-related events and ensure compliance with organizational policies.

PREREQUISITES

Before attending this course, delegates must understand the basic functionality of Azure Monitor and Log Analytics workspaces.

COURSE OBJECTIVES

After completing this course, you will be able to:

- Create a Log Analytics workspace.
- Configure access to a Log Analytics workspace.
- Configure data retention for a Log Analytics workspace.
- Enable health status alerts for a Log Analytics workspace.

COURSE CONTENT

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.

Lessons

- Introduction.
- Create a Log Analytics workspace.
- Configure access to Log Analytics workspaces.
- Configure Log Analytics data retention.
- Configure Log Analytics health status alerts.
- Knowledge check.

By the end of this module, you'll be able 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.

Module 2: Configure monitoring for applications

Learn how to create a private registry service for building, storing, and managing container images and related artifacts.

Lessons

- Introduction.
- Understand Application Insights.
- Application Insights sampling.
- Diagnostic settings and resource logs.
- Azure SQL Insights.
- Knowledge check.

By the end of this module, you'll be able 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

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.

Lessons

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

By the end of this module, you'll be able 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.

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.

Lessons

- Introduction.
- Topology.
- Connection Monitor.
- IP flow verify and NSG diagnostics.
- Packet capture.
- Knowledge check.

By the end of this module, you'll be able to:

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

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.

Lessons

- Introduction.
- Azure Monitor alerts.
- Action groups.
- Alert rules.
- Alert processing rules.
- Azure Monitor change analysis.
- Knowledge check.

By the end of this module, you'll be able 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

Module 6: Guided Project – Deploy and configure Azure Monitor

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

Lessons

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

In this module, you'll practice how to:

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

ASSOCIATED CERTIFICATIONS & EXAM

There is no Associated certification & Exam for this course, however, there is an assessment to achieve your Applied Skills credential. ([Assessment Link](#))