

**Deploy and Configure Azure Monitor (AZ-1004)**

**Course Number:** MOC-AZ-1004
**Duration:** 1 day

**Overview**

This Microsoft AZ-1004 training course, Deploy and Configure Azure Monitor, teaches attendees how to implement Azure Monitor to collect, analyze, and act on monitoring telemetry from Azure environments. Students learn how to configure and interpret monitoring for virtual machines, networking, and web applications.

**Prerequisites**

All AZ-1004 training students must understand the basic functionality of the Azure Monitor and Log Analytics workspaces.

**Materials**

All Microsoft Azure training students receive Microsoft official courseware.

For all Microsoft Official Courses taught in their entirety that have a corresponding certification exam, an exam voucher is included for each participant.

**Software Needed on Each Student PC**

Attendees will not need to install any software on their computers for this class. The class will be conducted in a remote environment that Accelebrate will provide; students will only need a local computer with a web browser and a stable Internet connection. Any recent version of Microsoft Edge, Mozilla Firefox, or Google Chrome will work well.

**Objectives**

* Create and configure a Log Analytics workspace
* Configure data retention and health status alerts for the workspace
* Monitor the performance of applications and collect and analyze the appropriate telemetry to improve application performance
* Deploy and configure Azure Monitor Agent on IaaS VMs
* Enable VM Insights and Data Collection Rules to monitor performance and application telemetry
* Use Azure Network Watcher Connection Monitor, flow logs, NSG diagnostics, and packet capture to monitor connectivity across Azure IaaS network resources
* Configure and manage alerts and responses in order to proactively notify users about potential issues before they become problems
* Configure monitoring of various workloads and infrastructure services using Azure Monitor

**Outline**

* Create and configure a Log Analytics workspace
	+ Create a Log Analytics workspace
	+ Configure access to Log Analytics workspaces
	+ Configure Log Analytics data retention
	+ Configure Log Analytics health status alerts
* Configure monitoring for applications
	+ Understand Application Insights
	+ Application Insights sampling
	+ Diagnostic settings and resource logs
	+ Azure SQL Insights
* Configure monitoring for virtual machines
	+ Deploy Azure Monitor Agent to IaaS Virtual Machines
	+ Monitor Performance with VM insights
	+ Configure data collection rules for IaaS VM logs
* Configure monitoring for virtual networks
	+ Topology
	+ Connection Monitor
	+ IP flow verify and NSG diagnostics
	+ Packet capture
* Configure alerts and responses
	+ Azure Monitor alerts
	+ Action groups
	+ Alert rules
	+ Alert processing rules
	+ Azure Monitor change analysis
* Guided Project – Deploy and configure Azure Monitor
	+ Exercise - Prepare your Azure environment
	+ Exercise - Deploy Log Analytics
	+ Exercise - Monitor web apps
	+ Exercise - Configure monitoring for compute services
	+ Exercise - Configure alerts