

AZ-1004: Deploy and configure Azure Monitor

Duration: 8 Hours (1 Day)

Overview

The AZ-1004: Deploy and Configure Azure Monitor certification exam doesn't exist as of my knowledge cutoff in 2023. However, Azure Monitor itself is a comprehensive solution within Microsoft Azure for collecting, analyzing, and acting on Telemetry from Cloud and on-premises environments. It helps to maximize the Performance and availability of applications and proactively identify problems in seconds. Industries use Azure Monitor to gain Real-time insights into their operations, understand Dependencies across resources, and maintain control over their infrastructures. By harnessing this data, companies can Troubleshoot issues, understand Customer behavior, Track billing, and create Dashboards for reporting. Azure Monitor is integral for maintaining the Health and optimization of cloud-based applications and Systems.

Audience Profile

- IT professionals involved in cloud operations
- System administrators seeking Azure monitoring skills
- DevOps engineers focusing on Azure infrastructure
- Azure administrators looking to optimize resources
- Technical staff responsible for Azure performance management

Course Syllabus

Tasks at a glance

Create and configure a Log Analytics workspace

- Create a Log Analytics workspace
- Configure access to a Log Analytics workspace
- Configure data retention
- Configure Log Analytics health status alert
- Supporting module (s):
- Create and configure a Log Analytics workspace

Configure change analysis

- Enable Azure Monitor Change Analysis for one of two (pre-deployed)
- web apps and its App Service plan
- Create a custom Change Analysis filter and pin it to the default
- dashboard in the Azure portal
- Supporting module (s):
- Configure monitoring for applications

Configure monitoring for applications

- Create an Application Insights resource
- Configure data sampling rate
- Set daily telemetry volume cap

- Configure anomaly detection email notifications
- Configure SQL Insights
- Configure diagnostic logging
- Supporting module (s):
- Configure monitoring for applications

Configure monitoring for virtual machines (VMs)

- Deploy Azure Monitor Agent to a virtual machine
- Configure data collection rules, including Windows event logs, syslog, IIS logs, and application-specific logs
- Enable VM Insights
- Supporting module (s):
- Configure monitoring for virtual machines
- Configure monitoring for virtual networks

Configure monitoring for virtual networks

- Create and configure an Azure Network Watcher Connection Monitor
- Create and configure a flow log
- Enable Traffic Analytics
- Configure access to flow logs
- Supporting module (s):
- Configure monitoring for virtual networks

Configure alerts and responses

- Create an action group
- Create an alert rule
- Create an alert processing rule to suppress notifications during a specific time window
- Configure automated responses to alerts, including notifications and runbooks