

Course description

This learning path provides practical experience implementing Azure Monitor to collect, analyze, and act on monitoring telemetry from Azure environments. Learners explore how to configure and interpret monitoring for virtual machines, networking, and web applications. The course covers Log Analytics workspaces, application performance monitoring, virtual machine insights, network monitoring, alerts, and a guided project that brings these capabilities together.

• Course level: Intermediate

• Modules: 6

Activities

This learning path includes Microsoft Learn instructional units, module assessments, and a guided project with hands-on exercises to prepare an Azure environment, deploy Log Analytics, monitor web apps and compute services, and configure alerts.

Course objectives

After completing this course, learners will be able to:

- Create and configure a Log Analytics workspace.
- Configure access, data retention, and health status alerts for a Log Analytics workspace.
- Use Application Insights to monitor application performance and understand sampling.
- Configure diagnostic settings and resource logs, and monitor Azure SQL performance.
- Deploy Azure Monitor Agent to IaaS virtual machines and use VM Insights to monitor performance.
- Configure data collection rules to collect operating system and application logs from virtual machines.
- Use Azure Network Watcher tools, including Connection Monitor, flow logs, NSG diagnostics, and packet capture, to monitor network connectivity.
- Configure and manage alert rules, action groups, and alert processing rules.
- Use Change Analysis to gain insight into changes made to Azure resources.

- Deploy and configure monitoring for web apps, compute services, networking services, and alerts in a guided project.

Intended audience

- Azure administrators responsible for monitoring and maintaining Azure environments.
- IT professionals who work with Azure virtual machines, networks, web applications, and infrastructure monitoring.

Prerequisites

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

Course outline

Module 1: Create and configure a Log Analytics workspace

- Introduction
- Create a Log Analytics workspace
- Configure access to Log Analytics workspaces
- Configure Log Analytics data retention
- Configure Log Analytics health status alerts
- Module assessment
- Summary

Module 2: Configure monitoring for applications

- Introduction
- Understand Application Insights
- Application Insights sampling
- Diagnostic settings and resource logs
- Monitor Azure SQL performance
- Module assessment
- Summary

Module 3: Configure monitoring for virtual machines

- Introduction
- Deploy Azure Monitor Agent to IaaS virtual machines
- Monitor performance with VM Insights
- Configure data collection rules for IaaS VM logs
- Module assessment
- Summary

Module 4: Configure monitoring for virtual networks

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

Module 5: Configure alerts and responses

- Introduction
- Azure Monitor alerts
- Action groups
- Alert rules
- Alert processing rules
- Module assessment
- Summary

Module 6: Guided Project – Deploy and configure Azure Monitor

- Introduction and prepare your Azure environment
- Exercise – Deploy Log Analytics
- Exercise – Monitor web apps
- Exercise – Configure monitoring for compute services
- Exercise – Configure alerts
- Module assessment

Summary

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Your course overview ends here.

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About CloudThat

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CloudThat specializes in Cloud Migration, Data Platforms, DevOps, IoT, and cutting-edge technologies like Gen AI & AI/ML. As a Microsoft Solutions Partner, AWS Premier Tier Training Partner, Google Cloud Platform Partner, and collaborator with leading organizations like HPE, Oracle, Nvidia and Databricks, CloudThat has trained over 850,000 professionals across 600+ cloud certifications, empowering students and professionals worldwide to advance their skills and careers.

To know more about our cloud certification training, email at sales@cloudthat.com or call us at +91-8880002200 or +1-8555588830 for those from outside India.