

# Microsoft Azure: Application, Monitoring and Diagnostics for IT Professionals

## WorkshopPLUS

Focus Area: Operations and Monitoring

Duration: 3 days

Difficulty: 300 - Advanced

### Overview

This course provides attendees with deep knowledge on how to monitor applications hosted on Microsoft Azure from an IT Professional's perspective. Most cloud-based Application development follows modern DevOps principles. This workshop enables IT Professionals to be a valuable partner for the Development teams by helping them developing the right Monitoring solution for their cloud-based Applications. Participants will learn core DevOps principles and related tools. They get a broad overview of the Microsoft Azure Monitoring stack and Log Analytics and deep knowledge into the Microsoft Application Performance Monitoring solution, Application Insights. Participants will benefit from a wide range of hands-on lab experiences to help consolidate the concepts learned as well as broaden their knowledge skillset around Microsoft Azure and Microsoft modern Application monitoring technologies.

### Objectives

After completing this training, students will be able to:

- Understand how to develop a comprehensive Monitoring solution on Microsoft Azure for any kind of Application hosted in the Cloud or in hybrid scenarios.
- Explain the key challenges of Application Monitoring in the cloud and introduces the complete Microsoft Azure Monitoring toolset as an overview.
- Learn advanced concepts of Application Monitoring like integration into Azure DevOps, creating and managing custom telemetry data and visualizing the collected data.

### Key Takeaways

#### Course Material

- Understand the base / most important DevOps concepts and terms.
- Understand the challenges of Application Monitoring in the cloud.
- Comprehensive knowledge of Application Insights to support Dev colleagues in a DevOps project.

#### Hands-on Labs

- Most of the concepts covered above will be supported by hands-on labs and demos.
- Attendees have access to resources and labs for up to 6 months after workshop completion.

### Agenda

#### Day 1

- Course introduction and DevOps preparation
- Application Monitoring Foundation for IT PRO
- Introduction to Azure Monitoring toolset

#### Day 2

- Introduction to Azure Monitoring toolset (Contd.)
- Application Insights - Capabilities and Configuration

#### Day 3

- Application Insights - Capabilities and Configuration (Contd.)
- Application Insights - Advanced Concepts & Visualization

Plan for three full days. Early departure on any day is not recommended.

## Course Details

### Module 1: Application Monitoring Foundation for IT PRO

- A DevOps Primer for IT PROs
- Introduction to Azure Management
- Introduction to Azure Resource Manager templates

### Module 2: Introduction to Azure Monitoring toolset

- Challenges of Application Monitoring in the Cloud
- Azure Monitoring toolset overview
- Core capabilities and functions of Azure Monitor
- Core capabilities and functions of Log Analytics

### Module 3: Application Insights - Capabilities and Configuration

- Application Insights: Overview and Capabilities
- Application Insights: Implementing and Configuring
- Application Insights – Managing instances

### Module 4: Application Insights - Advanced Concepts & Visualization

- Application Insights – Web Tests & Alerting
- Application Insights – Custom Telemetry
- Application Insights - Data Visualization

## Recommended Qualifications

- This WorkshopPLUS is an advanced course on Application monitoring and diagnostics under Microsoft Azure.
- It is mainly targeted at IT Professionals, IT Administrators, Solution Architects as well as Line-Of Business Application Managers looking to understand how Microsoft Monitoring technologies would help with regards to operating and monitoring their Cloud Application services.
- Attendees are recommended to have had exposure and experience with Microsoft Monitoring technologies.
- Some previous exposure to Microsoft Azure and Visual Studio is also required.

## Hardware Requirements

- An Intel Core-i5-based PC
- USB port
- Microsoft/Windows Live ID to connect to the virtual environment
- 4 GB RAM
- 128 GB HDD
- Windows 7 SP1 or later
- Office 2013 Professional Plus
- Internet access with at least 1 Mbps bandwidth per student.
- Second Monitor advised

## For more information

Contact your Henson Group representative for further details.