

Azure: Cloud and Datacenter Management with Azure Automation



WorkshopPLUS

Target Audience:

This WorkshopPLUS is a course for cloud and datacenter automation using Azure Automation. It is targeted at IT staff who have prior experience, or are about to start designing and implementing automation for cloud and datacenter.

This course will not cover the basic concepts and know-how of Windows Server, networking, Azure, and PowerShell. Attendees are expected to possess this knowledge.

Overview

The WorkshopPLUS - Azure: Cloud and Datacenter Management with Azure Automation provides students with the knowledge required to plan, design, implement, and administrate automation solutions spanning on-premises and public cloud. The WorkshopPLUS provides a technical drill-down into Azure Automation, including DSC, integration scenarios, troubleshooting, the Hybrid Runbook Worker and Azure. After successfully completing this WorkshopPLUS, students will have the knowledge to integrate and automate systems and services within on-premises and public cloud.

Key Features and Benefits

Each group of modules is designed to provide participants with in-depth expertise, tools, and hands-on experience to better design, install, implement, and administrate the automation environment.

Technical Highlights

After completing this course, you will be able to:

- Understand Azure Automation.
- Understand how Azure Automation integrates with other products.
- Understand how to approach different automation scenarios.
- Design, implement, and administrate an automation environment.
- Troubleshoot and investigate automation problems.
- Identify automation candidates and plan for implementing automation.

Syllabus

Prerequisites:

We expect the participants to have general understanding of these concepts:

- Cloud computing
- Virtual servers
- System Center and system management
- Networking
- PowerShell

IT Requirements:

This WorkshopPLUS uses Azure subscriptions for labs and requires high speed internet connection for all student workstations.

This WorkshopPLUS runs for **three** full days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

Introduction to Automation - This module provides students with the tools needed to understand automation design and ROI.

Microsoft Automation - This module provides an introduction to Microsoft Tools and history and a way for students to help understand which tools to use in their own environment.

Azure Automation - This module covers a detailed run through of Azure Automation.

Azure Automation - Desired State configuration (DSC):

This module covers DSC in Azure Automation and helps students understand the basics of DSC.

Azure Resource Manager - This module focuses on Azure Resource Manager and JSON templates for automation of resources.

Azure Automation - Integration : This module covers Integration between Azure Automation and other tools.

Operations Management Suite - This module provides a high level overview of Operations Management Suite.

Hybrid Runbook Worker - This module covers the Hybrid Runbook Worker, its architecture, installation and use.

Azure Automation - Troubleshooting : This module covers multiple troubleshooting topics for Azure Automation and the Hybrid worker.

Release Pipeline - This module covers the concepts of the release pipeline model stages, explains why they are needed and how they can benefit you.