

Azure DevOps Workshop to become Zero to Hero!

Azure DevOps provides developer services to support teams to plan work, collaborate on code development, and build and deploy applications. Developers can work in the cloud using Azure DevOps Services or on-premises using Azure DevOps Server. Choose an Azure DevOps Services when you want:

- Quick set-up
- Maintenance-free operations
- Easy collaboration across domains
- Elastic scale
- Rock-solid security

In this Azure DevOps workshop, you will learn how to set up and configure continuous delivery within Azure using a combination of Azure Resource Manager templates and Azure DevOps. You will do this throughout the use of a new Azure DevOps project, Git repository for source control, and an Azure Resource Manager template for Azure resource deployment and configuration management.

At the end of this workshop, you will be able to build templates to automate cloud infrastructure and reduce error-prone manual processes. Also, you'll create an Azure Resource Manager (ARM) template to provision Azure resources, configure continuous delivery with Azure DevOps, configure Application Insights into an application, and create an Azure DevOps project and Git repository.

Below is the agenda that we will cover to make you learn about Azure DevOps that include Hands-on-Labs:

1. Day 1 – 03/06/2020:
 - a. 05:00 pm: Welcome & Introductions
 - b. 05:30 pm: Review of Azure DevOps Workshop Objectives
 - i. Current understanding of Azure DevOps
 - ii. What is Enterprise DevOps?
 - iii. Hands-on-Lab scenario & overview
 - c. 07:00 pm: DevOps Strategy
 - d. 08:00 pm: Break
 - e. 08:15 pm: DevOps Tools
 - i. Agile work management approach
 - ii. Secure development process
 - iii. Tool integration
 - iv. Pull info from multiple projects
 - f. 9:00 pm: Work on prerequisites for Hands-on-Labs (HoL)
2. Day 2 – 03/07/2020
 - a. 09:00 am: Review of topics covered on the previous day
 - b. 09:30 am: DevOps Development Process
 - c. 10:00 am: HoL – Part 1
 - d. 11:00 am: Continuous Integration
 - i. Code quality and security policies
 - ii. Build pipelines
 - iii. Build pipelines for containers

- e. Noon: HoL – Part 2
- f. 12:45 pm: Lunch
- g. 01:30 pm: Continuous Delivery & Feedback
 - i. Release pipelines
 - ii. Release management workflow
 - iii. Deployment patterns
 - iv. System feedback mechanisms
 - v. Process for routing system feedback to development teams
 - vi. Key Considerations
- h. 02:00 pm: HoL – Part 3
- i. 03:00 pm: Azure Boards, Reporting, and Dashboards
- j. 03:30 pm: HoL – Part 4
- k. 04:30 pm: Summarize and close of the workshop