



# Continuous Delivery Using Azure DevOps Services

Course ID #: DVOP-128

Hours: 7

## Course Content

### Course Description:

In this course, you will cover how to design a solution with a combination of Azure Resource Manager templates and Azure DevOps to enable continuous delivery with several Azure PaaS services.

Continuous Delivery Using Azure DevOps Services Training teaches attendees the DevOps principles and hands-on skills they need to work better in teams, scale their agility, share and integrate their work and deliver working software continuously. Attendees work in teams on a common case study using a shared Azure DevOps environment.

### Course Objectives:

After completing this course, students will be able to:

- Build templates to automate cloud infrastructure and reduce error-prone manual processes
- Create an Azure Resource Manager (ARM) template to provision Azure resources
- Configure continuous delivery with Azure DevOps
- Configure Application Insights into an application
- Create an Azure DevOps project and Git repository

### Prerequisites:

Attendees should be familiar with Visual Studio, Scrum, and have basic experience with Azure DevOps Services, Visual Studio Team Services, or Team Foundation Server. Content presumes 300-level of architectural expertise of infrastructure and solutions design.

### Target Audience:

This course is intended for Cloud Architects and IT professionals who have architectural expertise of infrastructure and solutions design in cloud technologies and want to learn more about Azure and Azure services. Those attending this course should also be experienced in other non-Microsoft cloud technologies, meet the course prerequisites, and want to cross-train on Azure.



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## Topics:

### Lesson 1: Whiteboard Design Session

- Review the customer case study
- Design a proof-of-concept solution
- Present the solution

### Lesson 2: Hands-On Lab

- Create an Azure Resource Manager (ARM) template that can provision the web application, SQL database
- Create Azure DevOps project and Git Repository
- Create Azure DevOps build pipeline
- Create Azure DevOps release pipeline
- Trigger a build and release
- Create a feature branch and submit a pull request

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