



REAL WORLD
TECHNOLOGY TRAINING & SOLUTIONS
"Training You Can Really Use"

AZ 400T05 Implementing Application Infrastructure

Duration: 1 Day

Method: Instructor-Led Training (ILT) | Live Online Training

Certification: Microsoft Certified: DevOps Engineer Expert —
Exam: AZ-400: Designing and Implementing Microsoft DevOps Solutions

Course Description

This course provides knowledge and skills to deploy an application infrastructure in DevOps pipelines. Students will learn how to implement infrastructure as code and configuration management, how to provision Azure infrastructure using common automation tools, and how to deploy an application infrastructure using various Azure services and deployment methodologies. Participants will also learn how to integrate third-party deployment tools with Azure, such as Chef and Puppet, to incorporate compliance and security into the release pipeline.

Target Audience

This course is intended for:

- Individuals who are interested in implementing application infrastructure, and the management and configuration of that infrastructure.
- Individuals who are interested in passing the Microsoft Azure DevOps Solutions certification exam.

Prerequisites

To attend this course, candidates must have:

- Fundamental knowledge about Azure, experience with virtual machines and containers, and some exposure to automation and scripting.
- Experience working in a software development or operations environment with either Windows or Linux would be helpful but is not essential.
- Knowledge of general application development and deployment processes.



Microsoft Partner

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Exam Details

Exam Code:	• AZ-400
Length of Exam:	• 2.5 Hours
Number of Questions:	• 40-60
Passing Score:	• 70%
Question Format:	• Multiple Choice & Multiple Response

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Apply infrastructure and configuration as code principles.
- Deploy and manage infrastructure using Microsoft automation technologies, such as ARM templates, PowerShell, and Azure CLI.
- Describe deployment models and services that are available with Azure.
- Deploy and configure a Managed Kubernetes cluster.
- Deploy and configure infrastructure using 3rd party tools and services with Azure, such as Chef, Puppet, Ansible, SaltStack, and Terraform.
- Define an infrastructure and configuration strategy and appropriate toolset for a release pipeline and application infrastructure.
- Implement compliance and security in your application infrastructure.

Course Topics

Module 1: Infrastructure and Configuration Azure Tools

- Learning Objectives
- Infrastructure as Code and Configuration Management
- Create Azure Resources using ARM Templates
- Create Azure Resources using Azure CLI
- Create Azure Resources using Azure PowerShell
- Additional Automation Tools
- Version Control





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Course Topics *Continued*

Module 2: Azure Deployment Models and Services

- Learning Objectives
- Deployment Models and Options
- Azure Infrastructure-as-a-Service (IaaS) Services
- Azure Automation with DevOps
- Desired State Configuration (DSC)
- Azure Platform-as-a-Service (PaaS) services
- Azure Service Fabric

Module 3: Create and Manage Kubernetes Service Infrastructure

- Learning Objectives
- Azure Kubernetes Service

Module 4: Third-Party and Open-Source Tools available with Azure

- Learning Objectives
- Chef
- Puppet
- Ansible
- Cloud-Init
- Terraform

Module 5: Implement Compliance and Security in your Infrastructure

- Security and Compliance Principles with DevOps
- Azure Security Center

LABS INCLUDED



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