
AZ-400T05-A: Implementing Application Infrastructure

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. Students 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.

Objectives

- 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.

Intended Audience

Students in this course are interested in implementing application infrastructure, and the management and configuration of that infrastructure, or in passing the Microsoft Azure DevOps Solutions certification exam.

Topics



- Infrastructure and Configuration Azure Tools
- Azure Deployment Models and Services
- Create and Manage Kubernetes Service Infrastructure
- Third Party and Open Source Tools available with Azure
- Implement Compliance and Security in your Infrastructure
- Course Completion