

# **Implementing Application Infrastructure (AZ-400.5)**

**Modality:** On Demand

**Duration:** 8 Hours

***This course prepares you for the AZ-400 Exam leading to AZ-400 Certification. This course does not include the Official Exam Voucher, however, you can request to purchase the **Official Exam Voucher** separately.***

## **About this course:**

This course will provide foundational level knowledge of cloud services and how those services are provided with Microsoft Azure. The course can be taken as an optional first step in learning about cloud services and Microsoft Azure, before taking further Microsoft Azure or Microsoft cloud services courses.

The course will cover general cloud computing concepts as well as general cloud computing models and services such as Public, Private and Hybrid cloud and Infrastructure-as-a-Service (IaaS), Platform-as-a-Service(PaaS) and Software-as-a-Service (SaaS).

It will also cover some core Azure services and solutions, as well as key Azure pillar services concerning security, privacy, compliance and trust. It will finally cover pricing and support services available with Azure.

## **Course Objective:**

- Understand general cloud computing concepts
- Understand core services available with Microsoft Azure
- Understand security, privacy, compliance and trust with Microsoft Azure
- Understand pricing and support models available with Microsoft

## **Audience:**

- IT Support officer
- Azure Developer

## **Prerequisite:**

- Technical IT experience is not required however some general IT knowledge or experience would be beneficial.

## **Course Outline:**

### **Infrastructure and Configuration Azure Tools**

- Infrastructure as Code and Configuration Management
- Create Azure Resources using ARM Templates
- Create Azure Resources using Azure CLI
- Create Azure Resources by using Azure PowerShell
- Additional Automation Tools
- Version Control
- Lab
- Module review questions

## **Azure Automation**

- Azure Automation
- Azure Automation State Configuration (DSC)
- Lab
- Module Review Questions

## **Azure Compute services**

- Infrastructure as a Service
- Platform as a Service
- Serverless and HPC compute services
- Azure Service Fabric
- Azure Kubernetes Service
- Application Architecture models
- Choosing a Compute Service
- Lab
- Module Review Questions

## **Third Party and Open Source Tool integration with Azure**

- Chef with Azure
- Puppet with Azure
- Ansible with Azure
- Cloud-init with Azure
- Terraform with Azure
- Lab
- Module Review Questions

## **Compliance and Security**

- Security and Compliance in the pipeline
- Azure security and compliance tools and services
- Lab
- Module Review Questions

## **Course Completion**

- Graded Final Exam?

