

**Building Cloud-Native Applications on Azure**

**Course Number:** AZR-138  
**Duration:** 2 days

**Overview**

This Building Cloud-Native Applications on Azure training teaches students architecture and practical decisions, matching Azure resources to tasks required by the application. Attendees learn how to use offerings such as Infrastructure-as-a-service, Platform-as-a-Service, Software-as-a-Service, Databases, and networking.

**Prerequisites**

* Experience developing with JavaScript.
* Experience developing web applications.
* Basic familiarity with cloud technologies and Azure is a plus.

**Materials**

All Azure training students receive comprehensive courseware.

**Software Needed on Each Student PC**

* Modern web browser and Internet access
* Visual Studio Code (available on Mac and PC, free)
* A personal free trial Azure subscription (best to start a new one during class)
* NodeJS installed

**Objectives**

* Provision resources on Azure
* Utilize storage, networking, web, messaging, and data resources
* Incorporate various software and DevOps methods to deploy and manage code
* Apply networking and interconnectivity

**Outline**

* Introduction
* Azure Overview
  + Course introduction
  + Key popular resources
  + Networking
  + Resource Groups and the resource model
* Storage
  + Storage capabilities
  + Storage Accounts
  + Access control
  + Queues, Tables, Blobs, and Files
  + Programmatic access to storage
* Service Fabric Mesh
  + Fabric and Fabric Mesh
  + Applications and Services
  + Deployments
  + Versioning
  + Networking
  + Scaling
* Search Services
  + Search Engine vs. database
  + Text analysis
  + Schema definition
  + Indexers and indexing
* Conclusion