

**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