

# Cloud Computing with Microsoft Azure

## For .NET Developers

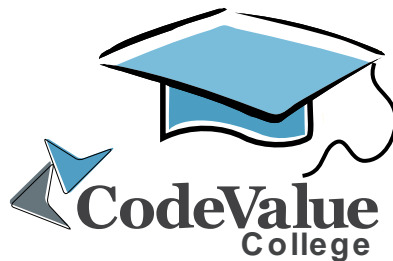
### Course Summary Table

<b>Duration:</b>	5-day instructor-led course
<b>Target Audience:</b>	Software Developers, Software Architects & Team Leaders
<b>Pre Requisites:</b>	At least 1 years of experience with .NET and C#
<b>Objectives:</b>	<p>The participant will understand the fundamentals of cloud computing</p> <p>The participant will learn to design and author cloud-based and hybrid applications using Microsoft Azure</p> <p>The participant will gain hands-on experience with various Microsoft Azure services</p>
<b>Requirements:</b>	<p>Workstations with Visual Studio 2015 &amp; Azure SDK</p> <p>Internet Access</p> <p>Microsoft Azure Subscription</p>

### Abstract

Cloud computing is all the rage nowadays. If your company is not "in the cloud" already, most likely there are some processes under consideration for moving there at the moment. Giant companies such as Microsoft, Amazon & Google are leading the revolution by providing constantly developing cloud platforms on which rich applications are built and deployed.

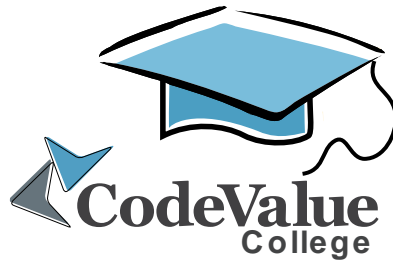
Unlike the traditional hosting environments which we know from the past, the cloud provides many additional benefits besides basic hosting of virtual machines. Correct use of cloud technologies allows the modern software developer to develop desktop, web & mobile application more quickly and with significantly cheaper operational costs.



In this 5-day instructor led course, we are going to learn about the fundamentals of cloud computing, while utilizing the Microsoft Cloud – Microsoft Azure. We will learn about the various services which Azure has to offer – from IaaS, through App Service and Service Fabric, and more. The course will be accompanied by several hands-on exercises to give you practical knowledge in developing for this platform.

## Syllabus

- ✔ Introduction
  - ✔ Introduction to Cloud Computing
  - ✔ IaaS, PaaS & SaaS
  - ✔ Cloud Architecture
  - ✔ Microsoft Azure Overview
  - ✔ The Portal & PowerShell
- ✔ IaaS on Azure
  - ✔ Virtual Machines
  - ✔ Virtual Networks
  - ✔ VM Extensions
  - ✔ VM Scale-Sets
- ✔ Cloud Services
  - ✔ Worker Roles
  - ✔ Web Roles
- ✔ Azure Data & Storage
  - ✔ BLOBs
  - ✔ Queues
  - ✔ Tables
  - ✔ Files
  - ✔ SQL Database
  - ✔ DocumentDB
  - ✔ Redis Cache
  - ✔ Azure Search
- ✔ Azure Service Bus
  - ✔ Relays
  - ✔ Queues
  - ✔ Topics
  - ✔ Event Hubs
- ✔ Azure App Service
  - ✔ Web Apps
  - ✔ Web Jobs
  - ✔ API Apps
  - ✔ Mobile Apps & Logic Apps Overview



- ✔ Azure Service Fabric
  - ✔ Hosting Model
  - ✔ Reliable Services
  - ✔ Reliable Actors
- ✔ IoT & Analytics on Azure
  - ✔ IoT Hub
  - ✔ Stream Analytics
  - ✔ IoT Suite
  - ✔ PowerBI
  - ✔ Mention only - HDInsight, Machine Learning, Data Lake, SQL Data Warehouse
- ✔ Azure Active Directory
- ✔ Deploying & Managing Application
  - ✔ Azure Resource Manager
  - ✔ Resource Groups
  - ✔ Resource Based Access Control (RBAC)
  - ✔ Deployment Templates
  - ✔ Management API
  - ✔ Azure PowerShell
  - ✔ Azure Cross-Platform CLI
- ✔ Cloud Architecture
- ✔ Course Conclusion