



Microsoft Azure



**Cloud computing
hands-on Labs**

Overview

Cloud computing is a new form of Internet-based computing that provides shared computer processing resources and data to computers and other devices on demand. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources (e.g., computer networks, servers, storage, applications and services), which can be rapidly provisioned and released with minimal management effort. Basically, Cloud computing allows the users and enterprises with various capabilities to store and process their data in either privately owned cloud, or on a third-party server in order to make data accessing mechanisms much more easy and reliable. Data centers that may be located far from the user—ranging in distance from across a city to across the world. Cloud computing relies on sharing of resources to achieve coherence and economy of scale, similar to a utility (like the electricity grid) over an electricity network.

Microsoft Azure - is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through a global network of Microsoft-managed data centers.

Azure Cloud services can be accessed by software developers, cloud administrators and other enterprise IT professionals over the public internet or through a dedicated network connection. Azure Platform offers services for compute, storage, networking, big data, machine learning and the internet of things (IoT), as well as cloud management, security and developer tools.

Objectives

This course is designed to introduce you to fundamental Microsoft Azure cloud computing and concepts including infrastructure, building your own solution, management, Security, logging, and development methods. It also covers security-related compliance protocols and risk management strategies.

Target Audience

- Anyone looking to gain knowledge to the Microsoft Azure Cloud Platform

Prerequisites

- You'll need a basic understanding of cloud technologies.

Duration: **2 days** (16 hours)

Module 1 – Day 1

- Introduction to Cloud computing
 - Cloud Computing models: SaaS, PaaS, IaaS
 - Cloud implementation models: Public, Private, Hybrid
- Introduction Microsoft Azure cloud
- Introduction to Azure architecture
- Azure Services overview
 - Azure Compute Services
 - Azure Network Services
 - Azure Storage Services
- Azure App Services
- Azure Databases
- How to design cloud services?
- Planning and design
- Azure Analytics
- Diving into Compute, Storage & Networks
- Summary

Module 2 – Day 2

- Azure services comparison
- Enterprise Integration
- Security
- Management
- Containers
- Azure Internet of Things
- Cloud Functions
- Monitoring
- Automation
- Development Model
- SDK
- IDE tools
- CLI
- Summary