

# Cloud Computing – Microsoft Azure



## The Course

Azure is the most popular and most widely used cloud platform in the world. This course, Azure Training is designed to prepare administrators, engineers, architects, and consultants for designing workload deployments on the Azure platform. This course will teach you design principles, including strategies for Compute, Networking, Storage, DNS, RDS, monitoring, Serverless computing, load balancing and much more. When you're finished with this course, you'll have the skills and knowledge needed to securely design highly available and scalable systems, and you'll also be highly prepared for the AWS Certifications.

## The Eligibility

Passionate Technology Enthusiasts with a minimal knowledge on IT and Operating Systems.

Good to have basic knowledge on Windows, OS & IT Infrastructure.

## The Rulepaper Promise

Our training methodologies promises to give the students hands on art enterprise skills to delve deeper into the technologies from a practical and enterprise point of view. Extreme Hands-on-Lab with a self doable on the fly practical based training approaches makes transformation of the student from a no vice to a capable experienced cloud computing engineer.



## The Instructor

Enterprise Architect with huge experience on Private and Public Cloud Technologies. The trainers are advisors and members of larger Cloud Computing Forums and seasoned integrators of IT Cloud Computing technologies with more than 12+ years in global large enterprise giants.

## Course Contents

### Module 1

#### Introduction to Azure

- ☰ Cloud technology overview
- ☰ What is PaaS/ SaaS/ IaaS
- ☰ Overview of Azure
- ☰ Managing Azure with the Azure portal
- ☰ Overview of Azure Resource Manager
- ☰ Azure management services
- ☰ Azure Architecture
- ☰ Development Tools
- ☰ Visual Studio tools

### Module 2

#### Virtual Machines in Microsoft Azure

- ☰ Create and Configure Virtual Machines
- ☰ Workloads on Azure Virtual Machines
- ☰ Implement Images and Disks
- ☰ VM Networking
- ☰ Configure Disks
- ☰ Monitor Vm's

### Module 3

#### Virtual Networks in Microsoft Azure

- ☰ Creating a Virtual Network
- ☰ Understand Point-to-Site Networks

### Module 4

#### Implementing Storage in Microsoft Azure

- ☰ Understand Cloud Storage
- ☰ Blobs, Azure Files
- ☰ Storage Queues, Tables
- ☰ Managing Access
- ☰ Create and Manage Storage
- ☰ Configure Diagnostics and Monitoring

### Module 5

#### Web Apps for Azure Infrastructure

- ☰ Deploy & Configure Websites
- ☰ Scaling
- ☰ Web App Deployment Models and Methods
- ☰ Web Deploy Packages
- ☰ Deployment Slots

## Course Contents

### Module 6

#### Cloud Services in Azure

- ☰ Overview of Cloud Services
- ☰ Cloud Service Web Roles
- ☰ Customizing Cloud Service Configurations
- ☰ Updating and Managing Cloud Service
- ☰ Cloud Service Worker Role
- ☰ Cloud Service Worker Role Processing
- ☰ Analysing Application Cloud Service Role's

### Module 7

#### SQL Azure

- ☰ Introduction
- ☰ SQL Azure concepts
- ☰ Demonstration: Working with SQL Azure
- ☰ Data synchronization
- ☰ Limitations

### Module 8

#### Application Hosting Services

- ☰ Service Plans
- ☰ Hosting Databases
- ☰ Hosting services on-premises vs Windows Azures

### Module 9

#### Windows Azure Service Bus

- ☰ Introduction Windows Azure Service Bus
- ☰ MSMQ vs Azure Service Bus
- ☰ Windows Azure Service Bus Relays
- ☰ Windows Azure Service Bus Queues
- ☰ Windows Azure Service Bus Topics

### Module 10

#### Deploying Services

- ☰ Creating and deploying Web ☰ ☰ ☰
- ☰ Application packages
- ☰ Command-line tools for web deployment packages
- ☰ Deploying to Windows Azure Environments
- ☰ Continuous delivery with TFS and GIT
- ☰ Best practices for production deployment
- ☰ Local Redundancy
- ☰ Geo-Redundancy
- ☰ Read-only Geo-Redundancy

## Course Contents

### Module 11

#### Implementing Azure Active Directory

- ☰ Creating and managing Azure AD tenants
- ☰ Administering Active AD
- ☰ Extending on-premises Active Directory domain to Azure
- ☰ Implementing directory synchronization by using Azure AD Connect
- ☰ Configuring directory synchronization
- ☰ Federation Concepts

### Module 12

#### Identity management and access control

- ☰ Identity Management and Access Control
- ☰ Windows Azure Access Control Service
- ☰ Azure Security Access Control
- ☰ Shared Access Signatures with Azure Service Bus and Queue Storage Services
- ☰ Shared Access Signatures Best Practices

### Module 13

#### No SQL in Azure

- ☰ Azure Document DB
- ☰ Other No-SQL Alternatives

### Module 14

#### Advanced Topics

- ☰ Introduction to Internet of Things - IoT
- ☰ Event Hubs

## The Duration

Duration of the Course is 40 hours.

## The Lab Requirements

Students must bring their own laptops with basic configuration

## The cost of the Training

Please send an email or contact us at [enquiry@rulepaper.com](mailto:enquiry@rulepaper.com) to know more about the cost and next batch schedules.

## The certifications

Once the training is completed the student have to enroll with Azure for getting certification and the cost is exclusive of this training . Certification is an optional or good to have feature.