



Yes-M Systems

# Azure – Az100 & Az101

## IaaS & PaaS

From Yes-M Systems LLC

**Length: Approx.** 5 weeks/36+ hours

**Audience:** Students with or without IT experience or knowledge

Student Location – To students from around the world

**Delivery Method:** Instructor-Led – Live Training

Classroom and/or Online



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Yes-M Systems LLC

## A. Course Summary

### About this Course:

This 40+ hour course is designed to give students a solid knowledge in the role and responsibility of a Azure Solution Architect. Topics are reinforced with intense hands-on practices including in class exercises, projects, home works with home work feedbacks. This course is taught by experienced instructors who have over 20+ years of IT experience. During and after the regular course, students will get to attend mock interview sessions and resume preparation sessions.

This course will allow the students to understand various Azure Solution ARCHITECT concepts including:

- (i) Manage Subscriptions and Resources
- (ii) Monitoring and Diagnostics
- (iii) Configuring and Managing Virtual Networks
- (iv) Deploying and Managing Virtual Machines
- (v) Implementing and Managing Storage
- (vi) Manage Identities
- (vii) Migration
- (viii) Implementing and Managing Application Services
- (ix) Planning and Implementing Azure SQL Database
- (x) Deploying Serverless Computing Solutions
- (xi) Secure Identities

Projects/mini-projects/Hands-on sessions via class work and/or home work on the following topics:

- (i) To Provide an Solution for an scenario and Implement the same
- (ii) To Provide Solution with Load balancing & Autoscaling
- (iii) Data life cycle on Cloud
- (iv) Automate the above mentioned LABS
- (v) Create an Azure AD policy as per the Customer scenario

## AT COURSE COMPLETION

1. Perform the role of a Cloud Engg or Cloud Administrator or System Admin or Azure Admin
  - a. Create VM's on Cloud
  - b. Create and configure Load balancing
  - c. Create and Configure Autoscaling
  - d. Manage Azure AD
  - e. Manage DBaaS
  - f. Manage and configure Storage on Cloud
  - g. Able to Migrate VM's from & to on-Premises
  - h. Configure networking on Cloud

## B. Contact us for more details:

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*Reviews: <http://myyesm.com>*

*Facebook: <http://www.facebook.com/yesmsystems>*

*Youtube: <http://www.youtube.com/yesmsystems>*

## Azure Solution Architect (AZ100 & AZ101) Details

### 1. Introduction to Cloud Computing

- 1.1. What is cloud computing?
- 1.2. History of Cloud
- 1.3. Different Vendors for Cloud
- 1.4. Cloud main Objectives
- 1.5. IaaS, PaaS, SaaS Overview
- 1.6. Azure Architecture
- 1.7. Azure Management Console
- 1.8. Setting up of the Azure Account
- 1.9. Features of Azure Cloud

### 2. Basic of Networking:

- 2.1. What is Networking?
- 2.2. IP Address Basic
- 2.3. Classes of IP
- 2.4. Subnetting
- 2.5. NATting / PATTING
- 2.6. IP V6 Implementation

### 3. Azure Administrator (AZ-100 and AZ-101) – Course Content

#### **3.1. Manage Subscriptions and Resources**

- 3.1.1. Overview of Azure Subscriptions Deploy Web Apps
- 3.1.2. Billing & Azure Policy
- 3.1.3. Azure Users and Groups
- 3.1.4. Role-based Access Control
- 3.1.5. ARM templates
- 3.1.6. Resource Groups

#### **3.2. Monitoring and Diagnostics**

- 3.2.1. Exploring Monitoring Capabilities in Azure
- 3.2.2. Azure Alerts
- 3.2.3. Azure Activity Log
- 3.2.4. Introduction to Log Analytics
- 3.2.5. Querying and Analyzing Log Analytics Data

#### **3.3. Configuring and Managing Virtual Networks**

- 3.3.1. Introducing Virtual Networks
- 3.3.2. Creating Azure Virtual Networks
- 3.3.3. Review of IP Addressing
- 3.3.4. Network Routing
- 3.3.5. Azure DNS Basics
- 3.3.6. Implementing Azure DNS
- 3.3.7. Introduction to Network Security Groups
- 3.3.8. Implementing Network Security Groups and Service Endpoints
- 3.3.9. Intersite Connectivity (VNet-to-VNet Connections)
- 3.3.10. Virtual Network Peering

### **3.4. Deploying and Managing Virtual Machines**

- 3.4.1. Azure Virtual Machines Overview
- 3.4.2. Planning Considerations
- 3.4.3. Overview of the Virtual Machine Creation Overview
- 3.4.4. Creating Virtual Machines in the Azure Portal
- 3.4.5. Creating Virtual Machines (PowerShell)
- 3.4.6. Creating Virtual Machines using ARM Templates
- 3.4.7. Deploying Custom Images
- 3.4.8. Deploying Linux Virtual Machines
- 3.4.9. Overview of Virtual Machine Configuration
- 3.4.10. Virtual Machine Networking
- 3.4.11. Virtual Machine Storage
- 3.4.12. Virtual Machine Availability
- 3.4.13. Virtual Machine Scalability
- 3.4.14. Applying Virtual Machine Extensions
- 3.4.15. Backup and Restore
- 3.4.16. Monitoring Virtual Machines

### **3.5. Implementing and Managing Storage**

- 3.5.1. Azure storage accounts
- 3.5.2. Virtual machine storage
- 3.5.3. Blob storage
- 3.5.4. Azure files
- 3.5.5. Structured storage
- 3.5.6. Data replication
- 3.5.7. Azure Storage Explorer
- 3.5.8. Shared access keys
- 3.5.9. Azure backup
- 3.5.10. Azure File Sync
- 3.5.11. Azure Content Delivery Network
- 3.5.12. Import and Export service
- 3.5.13. Monitoring Storage

### **3.6 Manage Identities**

- 3.6.1. Azure Active Directory Overview
- 3.6.2. Self-Service Password Reset
- 3.6.3. Azure AD Identity Protection
- 3.6.4. Integrating SaaS Applications with Azure AD
- 3.6.5. Azure Domains and Tenants
- 3.6.6. Azure Users and Groups
- 3.6.7. Azure Roles
- 3.6.8. Managing Devices
- 3.6.9. Azure Active Directory Integration Options
- 3.6.10. Azure AD Application Proxy

### **3.7 Migration**

- 3.7.1. Overview of Cloud Migration
- 3.7.2. Azure Migrate: The Process
- 3.7.3. Overview of ASR
- 3.7.4. Preparing the Infrastructure
- 3.7.5. Completing the Migration Process
- 3.7.6. VMWare Migration
- 3.7.7. System Center VMM Migration: Video Walkthrough

### **3.8 Implementing and Managing Application Services**

- 3.8.1. Introducing Azure App Service
- 3.8.2. App Service Environments
- 3.8.3. Deploying Web Apps
- 3.8.4. Managing Web Apps
- 3.8.5. App Service Security
- 3.8.6. Scale Up and Scale Out
- 3.8.7. Autoscale and Grow out
- 3.8.8. Optimizing Bandwidth and Web Traffic



### **3.9 Planning and Implementing Azure SQL Database**

- 3.9.1. Planning and deploying Azure SQL Database
- 3.9.2. Implementing and managing Azure SQL Database
- 3.9.3. Managing Azure SQL Database security
- 3.9.4. Monitoring Azure SQL Database
- 3.9.5. Managing Azure SQL Database business continuity

### **3.10 Deploying Serverless Computing Solutions**

- 3.10.1. Serverless Computing Concepts
- 3.10.2. Managing Azure Functions
- 3.10.3. Managing Event Grid
- 3.10.4. Managing Service Bus
- 3.10.5. Managing Logic App

### **3.11 Secure Identities**

- 3.11.1. Role-Based Access Control
- 3.11.2. Azure Active Directory (Refresher)
- 3.11.3. Protecting Privileged Access in the Environment
- 3.11.4. Introducing Multi-Factor Authentication
- 3.11.5. Implementing MFA
- 3.11.6. Getting Started with Privileged Identity Management
- 3.11.7. PIM Security Wizard
- 3.11.8. PIM for Directory Roles
- 3.11.9. PIM for Role Resources

Disclaimer: Yes-M Systems and/or their instructors reserve the right to make any changes to the syllabus as deemed necessary to best fulfil the course objectives. Students registered for this course will be made aware