

# **Designing An Infrastructure Strategy (AZ-301.4)**

**Modality: On Demand**

**Duration: 24 Hours**

## **About this Exam:**

This course makes you ready for the Exam of AZ-301.4 leading to the Certification of AZ-301.4. No Exam Voucher includes in this course, but you have the option to request the purchase of a Voucher for the Official Exam separately.

## **About this course:**

Understand how to describe the strategies of IP and DNS for VNETs in Azure, think about connectivity choices for hybrid and ad-hoc connectivity, distribute the traffic of network over different loads utilizing load balancers and plan a hybrid network situation between on-premise and cloud.

## **Course Objective:**

- Define different patterns pulled from the Patterns of Cloud Design.
- Allocate network traffic over different loads utilizing load balancers.
- Plan a hybrid availability situation between the cloud and on-premise.
- Plan accessibility set for at least one virtual machine.
- Explain the differences between update and fault domains.
- Author a Scale Set of VM ARM format.
- Understand Virtual Networks
- Load Balancing information
- External Connectivity and Secure Connectivity
- Networking Case Study

## **Audience:**

Effective Cloud Solutions Architects start this job with functional involvement in working frameworks, virtualization, cloud foundation, storage structures, networking, and billing.

## **Prerequisite:**

Functional involvement in working frameworks, cloud foundation, virtualization, storage structures, networking, and billing.

## **Course Outline:**

### **Module 1 - Application Architecture Patterns in Azure**

- Design Pattern Resources

- Performance Patterns
- Resiliency Patterns
- Scalability Patterns
- Data Patterns
- Review Questions
- Assessment 1

## **Module 2 - Building Azure IaaS-Based Server Applications(ADSK)**

- High Availability
- Templated Infrastructure
- Domain-Joined Virtual Machines
- Online Lab: Building Azure IaaS-Based Server Applications
- Review Questions
- Module 2 Assessment

## **Module 3 - Networking Azure Application Components**

- Virtual Networks
- Load Balancing
- External Connectivity
- Secure Connectivity
- Networking Case Study
- Online Lab: Deploying Network Infrastructure for Use in Azure Solutions
- Review Questions
- Module 3 Assessment

## **Module 4 - Integrating Azure Solution Components Using Messaging Services**

- Event Messaging
- Integration
- Internet of Things (IoT)
- Online Lab: Integrating Azure Solution Components using Messaging Services
- Review Questions
- Module 4 Assessment