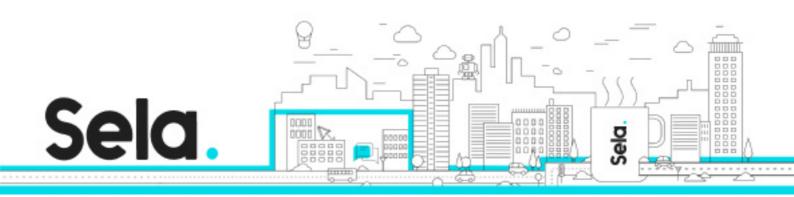AZ300

Microsoft Azure Architect Technologies

Microsoft Azure Architect Technologies

AZ300 - Version: 1

🕐 5 days Course

Description:

This 5-days course is comprised of 5 seperate 1- day courses. This course will help you
prepare to the Microsoft AZ-300 exam. You can review the daily syllabuses in the links below
Day 1:Deploying and Configuring Infrastructure
http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ300T01&branchName=165
Day 2:Implementing Workloads and Security
http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ300T02&branchName=165
Day 3:Understanding Cloud Architect Technology Solutions
http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ300T03&branchName=165
Day 4:Creating and Deploying Apps
http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ300T04&branchName=165
Day 5:Developing for the Cloud
http://scc.sela.co.il/Syl/Syllabus/Info?courseCode=AZ300T06&branchName=165

Intended audience:

Successful Azure Solutions Architects start this role with experience on operating systems,
virtualization, cloud infrastructure, storage structures, billing, and networking.

Prerequisites:

Objectives:

Managing Azure Subscriptions and Resources

Implementing and Managing Storage

Deploying and Managing VMs

Configuring and Managing Virtual Networks

Managing Identities using Azure Active Directory

Evaluating and Performing Server Migration to Azure

Implementing and Managing Application Services

Implementing Advanced Virtual Networking.

Securing Identities using Azure AD.

Design and Connectivity Patterns

Hybrid Networking

Address Durability of Data and Caching

Measure Throughput and Structure of Data Access

Use shell commands to create an App Service Web App

Create Background Tasks

Use Swagger to document an API

Create a reliable service

Create a Reliable Actors app

Hands-on with Reliable collections

Understand the Azure Container Registry

Use Azure Container instances

How to configure a message-based integration architecture

Understand how to Develop for Asynchronous Processing

Begin creating apps for Autoscaling

Understand Azure Cognitive Services Solutions

Topics:

Day 1

- Module 1: Managing Azure Subscriptions and Resources

- Module 2: Implementing and Managing Storage
- Module 3: Deploying and Managing Virtual Machines (VMs)
    - Create Virtual Machines (VM)s within the Azure Portal
    - Create Virtual Machines (VM)s using Azure PowerShell
    - Create Virtual Machines (VM)s using ARM templates
    - Deploy Linux Virtual Machines (VM)s
    - Monitor Virtual Machines (VM)s Additionally
- Module 4- Configuring and Managing Virtual Networks
    - Network routing using routing tables and algorithms
    - Inter-site connectivity using VNet-to-VNet connections and VPNs
    - Virtual network peering for regional and global considerations
    - Gateway transit
- Module 5- Managing Identities
    - Role-Based Access Control (RBAC)
    - built-in roles
    - Self-Service Password Reset (SSPR)
    - authentication methods for password reset

Day 2

- Module 1- Evaluating and Performing Server Migration to Azure
- Module 2- Implementing and Managing Application Services
    - Deploying Web Apps
    - Managing Web Apps
    - App Service Security
    - Serverless Computing Concepts
    - Managing Event Grid
    - Managing Service Bus
    - Managing Logic App
- Module 3- Implementing Advanced Virtual Networking
    - Azure Load Balancer

- º Azure Application Gateway
- º Site-to-Site VPN Connections
- • Module 4- Securing Identities
    - º Azure AD Identity Protection
    - º Azure Domains and Tenants
    - º Azure Users and Groups
    - º Azure Roles

Day 3

- • Module 1- Selecting Compute and Storage Solutions
    - º Azure Architecture Center
    - º Cloud design patterns
    - º Competing consumers pattern
    - º Cache-aside pattern
- • Module 2- Hybrid Networking
    - º Site-to-site connectivity
    - º Point-to-site connectivity
    - º Combining site-to-site and point-to-site connectivity
    - º Virtual network–to–virtual network connectivity
- • Module 3- Measuring Throughput and Structure of Data Access
    - º DTUs – Azure SQL Database
    - º RUs – Azure Cosmos DB
    - º Structured and unstructured data
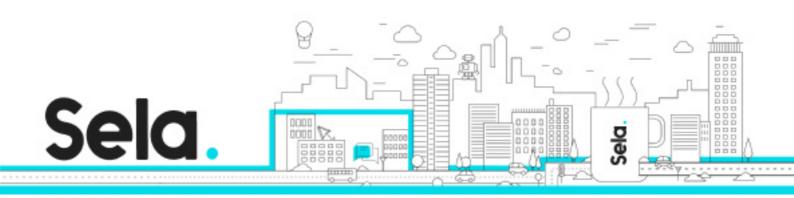   - º Using structured data stores

Day 4

- • Module 1- Creating Web Applications using PaaS
    - º Using shell commands to create an App Service Web App

º Creating Background Tasks

º Using Swagger to document an API As well as an explanation of how Logic Apps help to build solutions that integrate apps, data, systems, and services across enterprises or organizations by automating tasks and business processes as workflows.

• Module 2- Creating Apps and Services Running on Service Fabric

º Creating a reliable service

º Creating a Reliable Actors app

º Working with Reliable collections

• Module 3- Using Azure Kubernetes Service This module focuses on the Azure

º Azure Container Registry

º Azure Container Instances

Day 5

• Module 1- Developing Long-Running Tasks and Distributed Transactions

º Implementing large-scale, parallel, and high-performance apps using batches

º HPC using Microsoft Azure Virtual Machines

º Implementing resilient apps by using queues

• Module 2- Configuring a Message-Based Integration Architecture Lessons

º Configure an app or service to send emails

º Configure an event publish and subscribe model

º Configure the Azure Relay service

º Configure apps and services with Microsoft Graph

• Module 3- Developing for Asynchronous Processing Lessons

º Implement parallelism, multithreading, and processing

º Implement Azure Functions and Azure Logic Apps

º Implement interfaces for storage or data access

º Implement appropriate asynchronous computing models

º Implement autoscaling rules and patterns

• Module 4- Developing for Autoscaling Lessons

º Implementing autoscaling rules and patterns

º Implementing code that addresses singleton application instances

　º Implementing code that addresses a transient state

• Module 5- Developing Azure Cognitive Services Solutions Lessons

　º Developing Solutions using Computer Vision

　º Developing solutions using Bing Web Search

　º Developing solutions using Custom Speech Service

　º Developing solutions using QnA Maker