

AZ-101: MICROSOFT AZURE INTEGRATION AND SECURITY

WHY AZURE?

Whether it is a Simple Website or Ecommerce Portal or CRM or Office Automation tools or DevOps tools or anything which needs Server Infrastructure - all are now finding their space in Cloud. Every organization, small, medium or large is now moving towards cloud computing platforms.

Microsoft Azure is the fastest growing platform in today's date. It's a perfect blend of all the tree major cloud computing service models – IAAS, PAAS and SAAS.

Azure is available in **150 countries**, including China, and supports 10 languages and 24 currencies, all backed by Microsoft's **\$15 billion** (USD) investment in global datacenter infrastructure.

Azure is currently available in 54 regions around the world.

95% of Fortune 500 companies use Azure

120,000 new Azure customer subscriptions per month

COURSE OVERVIEW

This course teaches IT Professionals how to manage their Azure Integration and Security including Evaluate and perform server migration to Azure, Implement and manage application services, implement advanced virtual networking and secure identities.

This, Microsoft Azure training is targeted for ANYONE who wants to move their current skillset to Microsoft Azure cloud, taking the benefit of unlimited computing, storing and networking power, for the personal career growth.

WHY ONE SHOULD LEARN AZURE?

Are you moving with the pace of the industry?

Are you not getting the sense of being outdated?

Is stagnation not bother you?

Is your Job Secured?

Actually, you don't have choice!!!

For every IT professional, it has now become **MANDATORY** to have **KNOWLEDGE OF CLOUD COMPUTING**.

You can choose: Microsoft Azure OR Amazon AWS OR Google Cloud?

But anyone is must...Then why not choose the one with is **FASTEST growing...**

For Years to come...Azure will stay...

Align to technology growth?

Remain Updated...Learn Azure...

-Sandeep Soni.

PREREQUISITES:

This course is an essential for all those I.T Professionals or Administrators who either directly or indirectly work on or provides solutions on Microsoft Platform for building, maintaining and monitoring enterprise scale applications using latest Cloud Computing features and services.

Applicable careers include

- Solution Architects / Enterprise Architects / Team Leads
- Storage Administrators / Security Administrators
- Network Engineers / Server Engineers / Virtualization Engineers

Participants should have completed training for AZ-100 and should have working knowledge of Azure Infrastructure and Development.

WHAT YOU'LL LEARN / COURSE OBJECTIVE

- Use Azure Migrate to discover and assess on-premises virtual machine migration to Azure.
- Use Azure Site Recovery to migrate Hyper-V infrastructures to Azure.
- Review migration strategies for VMWare and System Center VMM virtual machines.
- Implement use cases and configuration options for Azure App Services and App Service Environments.
- Manage and secure web apps with backup, restore, snapshot, and cloning.
- Optimize your web app performance with Scale Up, Scale Out, Autoscale, and Grow out strategies.
- Deploy serverless computing features like Azure Functions, Event Grid, and Service Bus.
- Implement and configure Azure Load Balancer, Azure Traffic Manager, and Azure Application Gateway.
- Implement and configure Site-to-Site VPN connections and ExpressRoute.
- Implement and configure Network Watcher and troubleshooting common network issues.
- Use Azure RBAC to grant a granular level of access based on an administrator's assigned tasks.
- Use Azure Multi-Factor Authentication to configure a strong authentication for users at sign-in.
- User Azure AD Privileged Identity Management to configure access rights based on just-in-time administration.

CERTIFICATION



Part of requirements for : Azure Administrator

With Microsoft Certification, technology professionals are more likely to get hired, demonstrate clear business impact, and advance their careers.

[ABOUT THE CERTIFICATION](#)

OUR TRAINING METHODOLOGY?

Our **star trainer Mr. Sandeep Soni** having 22 years of experience in IT industry has compiled these courses and he will be himself delivering it.

Teaching methodology of Mr. Sandeep Soni, is very **simple but comprehensive**, every topic begins with concepts, to position the candidate in a comfortable state about what is being talked about, followed by that **practical demos** as in real-time on every topic is taken explaining how the feature can be incorporated in real-time situations.

Our course will enable you to design, build, maintain and monitor robust and scalable cloud solutions and most important you will **start thinking BIG**. This course also focuses on the architectural considerations and decisions necessary when building a highly available solution in the cloud.

WHAT WILL YOU GET?

- Exhaustive training by Microsoft Certified Trainer, **Mr. Sandeep Soni** having **22 years** of experience.
- You will get in-detailed and **Complete Courseware** prepared by Mr. Sandeep Soni himself and same can be used as for practice and reference.
- **FREE Microsoft Official Courseware (MOC)** for any one course, AZ-100 or AZ-101 or AZ-200 or AZ-201. This will also help you to prepare for Azure Certification.
- Guidance and support towards **Microsoft Certification Exams** will be provided by Mr. Sandeep Soni himself.
- You can buy **Certification Voucher** at discounted price.
- **Placement assistance** will be provided to **deserving** candidates.

SPECIAL OFFER for LIMITED PERIOD

- Azure Pass for practicing Lab exercise worth \$100/- (or one month) will provided absolutely free.
- 2-Months Access to online video Azure course on <http://www.bestdotnettraining.com> so that participants can revise the topic.
- **Most important of all: NO EXTRA FEES WILL BE CHARGED FOR REVISION UP TO 3 TIMES WITHIN A YEAR**

COURSE SYLLABUS

Implement Advanced Virtual Networking

- Load Balancing
 - Configure external and internal Azure Load balancer
 - Load Balancing Rules
 - Implement front end IP configuration
 - Azure Application Gateway
 - Azure Traffic Manager
- Integrate on-premises network with Azure virtual network
 - Point-to-Site Network using Azure VPN Gateway
 - Site-to-Site VPN
 - Express Route Solution
- Monitor and Manage Networking
 - Verify, Manage and Monitor on-premises connectivity;
 - Use network resource monitoring and Network Watcher
 - Manage external networking and virtual network connectivity

Implement and Manage Application Services

- Introduction
- App Service - Application Types
- Deploy Web Apps
 - Deploying Web App directly from Visual Studio
 - Automate deployment from Dropbox and One Drive
 - Create, configure and deploy packages
 - Implement pre- and post-deployment actions;
- App Service plans;
 - Create App Service Plan
 - Migrate Web Apps between App Service plans;
 - Create a Web App within an App Service plan
- Configuring Web Apps
 - Application Settings Configuration,
 - Database Connection Strings,
 - Configuring Handlers and Virtual Directories,
- Manage App Services
 - Configure a custom domain name

- Enable SSL for your custom domain
- Understanding Deployment Slots and Roll back deployments;
- App Service Protection
- Manage Roles for an App service
- Configure Web Apps for scale and resilience
 - Horizontal and Vertical Scaling of a Web App
 - Configure auto-scale
 - Change the size of an instance
- Monitoring, Debugging and Diagnosis
 - Retrieve Diagnostics data
 - View Streaming Logs
 - Configure endpoint monitoring
 - Configuring Alerts
 - Configure diagnostics
 - Use remote debugging
 - Monitor Web App resources
- Azure Traffic Manager to Scale out Globally
- Manage Azure Logic App resource
- Manage Azure Functions App Settings
- Manage Event Grid
- Manage Service Bus

Secure Identities

- Implement Multi-Factor Authentication
 - Enable MFA for an Azure AD tenant
 - Configure user accounts for MFA
 - Configure fraud alerts
 - Configure bypass options
 - Configure trusted IPs
 - Configure verification methods
- Configuring Role Based Access Control
 - Create a custom role
 - Configure access to Azure resources by assigning roles
 - Configure management access to Azure
 - Troubleshoot RBAC
 - Implement RBAC policies

- Assign RBAC roles
- Implement Azure Active Director (AD) Privileged Identity Management (PIM)
 - Activate a PIM role
 - Configure just-in-time access, permanent access, PIM management access, and time-bound access
 - Create a Delegated Approver account
 - Enable PIM
 - Process pending approval requests

Migrate Servers to Azure

- Managing Azure Active Directory
 - Overview of Cloud Migration
 - Azure Migrate: The Process
- Azure Site Recovery
 - Overview of ASR
 - Preparing the Infrastructure
 - Completing the Migration Process
- Additional Migration Scenarios
 - VMWare Migration
 - System Center VMM Migration

Azure Automation

- Introduction
- Azure Automation Account
- New Automation Runbook
- PowerShell Runbook
- Graphical Runbook
- Runbook Input Parameters
- Azure Automation DSC