



Master in Azure Architect Technologies

About DevOpsSchool

DevOpsSchool is a unit of "Cotocus PVT Ltd" and a leading platform which helps IT organizations and professionals to learn all the emerging technologies and trend which helps them to learn and embrace all the skills, intelligence, innovation and transformation which requires to achieve the end result, quickly and efficiently. We provide over 40 specialized programs on DevOps, Cloud, Containers, Security, AI, ML and on Big data that are focused on industry requirement and each curriculum is developed and delivered by leading experts in each domain and aligned with the industry standards.

ABOUT COURSE

Demand for Azure Architect Technologies is increasing day by day in IT organizations. It has a great future. Azure is one of the fast-growing cloud platforms. We are going to introduce to you about our one of that the best Azure Course that name is Master in Azure Architect Technologies. This training and certification course program designed for beginners and IT professionals in online mode. We also provide classroom and corporate training in top cities of India like Hyderabad, Bangalore, Chennai, Pune, Delhi, etc. Our curriculum has been determined by comprehensive research on 10000+ job descriptions across the globe and epitome of 20+ years of industry experience.

The "Master in Azure Architect" training program is structured in a way, whether you are an experienced IT professional or a college graduate, this course will help you to integrate all the real-world experience, specialization, and job-ready skills. Master in Azure Architect course is mainly designed by IT industries expert for beginners who will offer you an in-depth understanding of numerous Azure Architect equipment. Our Master in Microsoft Azure Architect certification course and training program, we will cover top 3 certifications like- Microsoft Azure Administrator (AZ - 104), Microsoft Azure Architect (AZ - 303), and Microsoft Azure Architect Design (AZ - 304).



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Duration	80 Hours
Mode	Online (Instructor-led, live & Interactive)
Projects (Real time scenario based)	1

FEATURES	DEVOPSSCHOOL	OTHERS
Faculty Profile Check	✓	✗
Lifetime Technical Support	✓	✗
Lifetime LMS access	✓	✗
Top 25 Tools	✓	✗
Interviews Kit	✓	✗
Training Notes	✓	✗
Step by Step Web Based Tutorials	✓	✗
Training Slides	✓	✗
Training + Additional Videos	✓	✗

AGENDA OF THE MASTER IN AZURE ARCHITECT TECHNOLOGIES

AZ - 104 Microsoft Azure Administrator

Manage Azure identities and governance

Manage Azure Active Directory (Azure AD) objects

- create users and groups
- manage user and group properties
- manage device settings
- perform bulk user updates
- manage guest accounts
- configure Azure AD join
- configure self-service password reset

Manage role-based access control (RBAC)

- create a custom role
- provide access to Azure resources by assigning roles at different scopes
- interpret access assignments

Manage subscriptions and governance

- configure Azure policies
- configure resource locks
- apply and manage tags on resources
- manage resource groups
- manage subscriptions
- manage costs
- configure management groups

Implement and manage storage

Secure storage

- configure network access to storage accounts
- create and configure storage accounts
- generate shared access signature (SAS) tokens
- manage access keys
- configure Azure AD authentication for a storage account
- configure access to Azure Files

Manage storage

- export from Azure job
- import into Azure job
- install and use Azure Storage Explorer
- copy data by using AZCopy
- implement Azure Storage replication
- configure blob object replication

Configure Azure files and Azure Blob Storage

- create an Azure file share
- create and configure Azure File Sync service
- configure Azure Blob Storage
- configure storage tiers for Azure Blob Storage
- configure blob lifecycle management

Deploy and manage Azure compute resources

Automate deployment of virtual machines (VMs) by using Azure Resource Manager templates

- modify an Azure Resource Manager template
- configure a virtual hard disk (VHD) template
- deploy from a template
- save a deployment as an Azure Resource Manager template
- deploy virtual machine extensions

Configure VMs

- configure Azure Disk Encryption
- move VMs from one resource group to another
- manage VM sizes
- add data disks
- configure networking
- redeploy VMs
- configure high availability
- deploy and configure scale sets

Create and configure containers

- configure sizing and scaling for Azure Container Instances
- configure container groups for Azure Container Instances
- configure storage for Azure Kubernetes Service (AKS)
- configure scaling for AKS
- configure network connections for AKS
- upgrade an AKS cluster

Create and configure Azure App Service

- create an App Service plan
- configure scaling settings in an App Service plan
- create an App Service
- secure an App Service
- configure custom domain names
- configure backup for an App Service
- configure networking settings
- configure deployment settings

Configure and manage virtual networking

Implement and manage virtual networking

- create and configure virtual networks, including peering
- configure private and public IP addresses
- configure user-defined network routes
- implement subnets
- configure endpoints on subnets
- configure private endpoints
- configure Azure DNS, including custom DNS settings and private or public DNS zones

Secure access to virtual networks

- create security rules
- associate a network security group (NSG) to a subnet or network interface
- evaluate effective security rules
- implement Azure Firewall
- implement Azure Bastion

Configure load balancing

- configure Azure Application Gateway
- configure an internal or public load balancer
- troubleshoot load balancing

Monitor and troubleshoot virtual networking

- monitor on-premises connectivity
- configure and use Network Performance Monitor
- use Azure Network Watcher
- troubleshoot external networking
- troubleshoot virtual network connectivity

Integrate an on-premises network with an Azure virtual network

- create and configure Azure VPN Gateway
- create and configure Azure ExpressRoute
- configure Azure Virtual WAN

Monitor and back up Azure resources

Monitor resources by using Azure Monitor

- configure and interpret metrics
- configure Azure Monitor logs
- query and analyze logs
- set up alerts and actions
- configure Application Insights

Implement backup and recovery

- create a Recovery Services vault
- create and configure backup policy
- perform backup and restore operations by using Azure Backup
- perform site-to-site recovery by using Azure Site Recovery
- configure and review backup reports

AZ - 303 Microsoft Azure Architect

Implement and Monitor an Azure Infrastructure

- Implement cloud infrastructure monitoring
- Implement storage accounts
- Implement VMs for Windows and Linux
- Automate deployment and configuration of resources
- Implement virtual networking
- Implement Azure Active Directory
- Implement and manage hybrid identities

Implement Management and Security Solutions

- Manage workloads in Azure
- Implement load balancing and network security
- Implement and manage Azure governance solutions
- Manage security for applications

Implement Solutions for Apps

- Implement an application infrastructure
- Implement container-based applications

Implement and Manage Data Platforms

- Implement NoSQL databases
- Implement Azure SQL databases

Design Monitoring

- Design for cost optimization
- Design a solution for logging and monitoring

Implement and Monitor an Azure Infrastructure

- Implement cloud infrastructure monitoring
- Implement storage accounts
- Implement VMs for Windows and Linux

Design Identity and Security

- Design authentication
- Design authorization
- Design governance
- Design security for applications

Design Data Storage

- Design a solution for databases
- Design data integration
- Select an appropriate storage account

Design Business Continuity

- Design a solution for backup and recovery
- Design for high availability

Design Infrastructure

- Design a compute solution
- Design a network solution
- Design an application architecture
- Design migrations

AZ - 304 Microsoft Azure Architect Design

Design Monitoring

Design for cost optimization

- recommend a solution for cost management and cost reporting
- recommend solutions to minimize costs

Design a solution for logging and monitoring

- determine levels and storage locations for logs
- plan for integration with monitoring tools including Azure Monitor and Azure Sentinel
• recommend appropriate monitoring tool(s) for a solution
- choose a mechanism for event routing and escalation
- recommend a logging solution for compliance requirements

Design Identity and Security

Design authentication

- recommend a solution for single-sign on
- recommend a solution for authentication
- recommend a solution for Conditional Access, including multi-factor authentication
- recommend a solution for network access authentication
- recommend a solution for a hybrid identity including Azure AD Connect and Azure AD
• Connect Health
- recommend a solution for user self-service
- recommend and implement a solution for B2B integration
- NOT: federation with ADFS or PingFederate

Design authorization

- choose an authorization approach
- recommend a hierarchical structure that includes management groups, subscriptions and
• resource groups
- recommend an access management solution including RBAC policies, access reviews,
• role assignments, Privileged Identity Management (PIM), Azure AD Identity Protection,
• Just In Time (JIT) access

Design governance

- recommend a strategy for tagging
- recommend a solution for using Azure Policy
- recommend a solution for using Azure Blueprint
- recommend a solution that leverages Azure Resource Graph

Design security for applications

- recommend a solution that includes Key Vault
- recommend a solution that includes Managed Identities
- recommend a solution for integrating applications into Azure AD

Design Data Storage

Design a solution for databases

- select an appropriate data platform based on requirements
- recommend database service tier sizing
- recommend a solution for database scalability
- recommend a solution for encrypting data at rest, data in transmission, and data in use

Design data integration

- recommend a data flow to meet business requirements
- recommend a solution for data integration, including Azure Data Factory, Azure Data Bricks, Azure Data Lake, Azure Synapse Analytics

Select an appropriate storage account

- choose between storage tiers
- recommend a storage access solution
- recommend storage management tools

Design Business Continuity

Design a solution for backup and recovery

- recommend a recovery solution for Azure hybrid and on-premises workloads that meets recovery objectives (RTO, RLO, RPO)
- design and Azure Site Recovery solution
- recommend a solution for recovery in different regions
- recommend a solution for geo-redundancy of workloads
- recommend a solution for Azure Backup management
- design a solution for data archiving and retention

Design for high availability

- recommend a solution for application and workload redundancy, including compute, database, and storage
- recommend a solution for autoscaling
- identify resources that require high availability
- identify storage types for high availability

Design Infrastructure

Design a compute solution

- recommend a solution for compute provisioning
- determine appropriate compute technologies, including virtual machines, App Services, Service Fabric, Azure Functions, Windows Virtual Desktop, Batch, HPC and containers
- recommend a solution for containers
- recommend a solution for automating compute management

Design a network solution

- recommend a network architecture (hub and spoke, Virtual WAN)
- recommend a solution for network addressing and name resolution
- recommend a solution for network provisioning
- recommend a solution for network security including Private Link, firewalls, gateways, network segmentation (perimeter networks/DMZs/NVAs)
- recommend a solution for network connectivity to the Internet, on-premises networks, and other Azure virtual networks
- recommend a solution for automating network management
- recommend a solution for load balancing and traffic routing

Design an application architecture

- recommend a microservices architecture including Event Grid, Event Hubs, Service Bus, Storage Queues, Logic Apps, Azure Functions, Service Fabric, AKS, Azure App Configuration and webhooks
- recommend an orchestration solution for deployment and maintenance of applications including ARM templates, Azure Automation, Azure Pipelines, Logic Apps, or Azure Functions
- recommend a solution for API integration

Design migrations

- assess and interpret on-premises servers, data, and applications for migration
- recommend a solution for migrating applications and VMs
- recommend a solution for migration of databases
- determine migration scope, including redundant, related, trivial, and outdated data
- recommend a solution for migrating data (Storage Migration Service, Azure Data Box, Azure File Sync-based migration to hybrid file server)



Thank you!

Connect with us for more info

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