

Course Content – Master in Azure DevOps



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Deloitte.

Training Dates	We can Fix the Schedule Based On Mutual Availability
Duration	Until all topic are covered
Mode	Online (Instructor-led)

Agenda

Azure Fundamental (AZ - 900)

- Benefits and considerations of using cloud services
- Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS)
- Public, Private and Hybrid cloud models

Core Azure Services

- Core Azure architectural components
- Core products available in Azure
- Solutions available on Azure
- Azure management tools

Security, Privacy, Compliance, and Trust

- Securing network connectivity in Azure
- Core Azure Identity services
- Security tools and features of Azure
- Azure governance methodologies
- Monitoring and reporting options in Azure
- Privacy, compliance and data protection standards in Azure

Azure Pricing, Service Level Agreements, and Lifecycles

- Azure subscriptions
- Planning and management of costs
- Azure Service Level Agreements (SLAs)
- Service lifecycle in Azure

Azure Administrator (AZ - 104)

Manage Azure identities

- Manage Azure AD objects
- Manage role-based access control (RBAC)
- Manage subscriptions and governance

Implement and manage storage

- Manage storage accounts
- Manage data in Azure Storage
- Configure Azure files and Azure blob storage

Deploy and manage Azure compute resources

- Configure VMs for high availability and scalability
- Automate deployment and configuration of VMs
- Create and configure VMs
- Create and configure containers
- Create and configure Web Apps



Configure and manage virtual networking

- Implement and manage virtual networking
- Configure name resolution
- Secure access to virtual networks
- Configure load balancing
- Monitor and troubleshoot virtual networking
- Integrate an on-premises network with an Azure virtual network

Monitor and back-up Azure resources

- Monitor resources by using Azure Monitor
- Implement backup and recovery

Azure DevOps (AZ - 400)

- Microsoft Azure Essentials
- Agile planning using Azure Board
- Source Versioning on Azure Repos
- Monitoring Code Quality
- Continuous Integration on Azure Pipelines
- Package Management on Azure Artifacts
- Continuous testing on Azure Test Plans
- Selecting and Implementing an Appropriate Deployment Pattern
- Recommend and Design System Feedback Mechanisms
- Leveraging ARM Templates for Infrastructure

How to Integrate Open-Source tools with Azure

- Installation of GitHub with Azure DevOps
- Integration of GitHub with Azure DevOps
- Installation of Terraform with Azure DevOps
- Integration of Terraform with Azure DevOps
- Installation of Jenkins with Azure DevOps
- Integration of Jenkins with Azure DevOps
- Deploying a multi-container application to Azure Kubernetes Services
- Deploying a Docker based web application to Azure App Service