



GETIN TECHNOLOGIES

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COURSE NAME: AZURE DEVOPS TRAINING

[Visit our website for Course Fees and Course Duration](#)

Placement Eligibility:

Eligible: Any Bachelor Degree, Any Master Degree, MBA

No Eligible: Diploma

Class Mode:

Classroom | Online | Recorded Session | AI Session

If you have Completed Course, You want only Placements

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Training Partnership with



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AZURE DevOps COURSE SYLLABUS

AZURE:

Introduction to Cloud Computing

- Understanding cloud computing
- Types of cloud services (IaaS, PaaS, SaaS)
- Advantages and disadvantages of cloud computing

Introduction to Microsoft Azure

- Overview of Azure
- Azure's global data center presence
- Azure regions, availability zones, and data residency

Azure Services Overview

- Core Azure services (Compute, Storage, Networking)
- Identity and access management (Azure Active Directory)
- Azure Marketplace and App Services

Virtual Machines (VMs) in Azure

- Creating and configuring Azure VMs
- VM storage options
- VM availability sets and scale sets
- VM backup and disaster recovery

Azure Storage

- Azure Blob storage
- Azure File storage
- Azure Table and Queue storage
- Azure Data Lake Storage

Azure Networking

- Virtual networks (VNets) in Azure
- Azure Load Balancer
- Azure VPN Gateway
- Azure Application Gateway

Azure Identity and Access Management

- Azure Active Directory (Azure AD)
- Azure AD Connect
- Azure AD B2B and B2C

Azure Security and Compliance

- Azure Security Center
- Azure Policy
- Compliance and governance in Azure

Azure Virtualization and Containers

- Azure virtualization with Hyper-V
- Azure Kubernetes Service (AKS)
- Containerization with Docker

Azure Monitoring and Management Tools

- Azure Monitor and Application Insights
- Azure Log Analytics
- Azure Management Groups

Serverless Computing with Azure Functions

- Introduction to serverless computing
- Creating and deploying Azure Functions
- Event-driven computing in Azure

Databases and Data Services in Azure

- Azure SQL Database

- Azure Cosmos DB
- Azure Cache for Redis

Hybrid Cloud Solutions

- Azure Arc
- Azure Site Recovery
- Hybrid networking solutions

Building Applications in Azure

- Azure DevOps and CI/CD
- Deploying web applications on Azure
- Application scaling and high availability

IoT and AI in Azure

- Azure IoT Hub
- Azure Machine Learning
- Cognitive Services



Cost Management and Billing

- Managing Azure costs
- Azure Cost Management and Billing
- Budgets and alerts

DevOps:

Introduction to DevOps

- History of DevOps
- DevOps principles
- Benefits of DevOps
- DevOps tools and technologies.

Source Code Management:

- GIT
- GITHUB

Continuous Integration and Continuous Deployment

- Jenkins

Configuration Management

- Ansible

Containerization

- Docker

Monitoring and Logging

- Splunk
- Prometheus

Infrastructure Automation

- Terraform



Case studies and projects

- Real-world use cases of DevOps principles and practices, and projects to apply what you have learned.

Kubernetes:

Introduction to Kubernetes

- Overview of Kubernetes
- Key Kubernetes concepts
- Kubernetes ecosystem and CNCF

Kubernetes Architecture

- Master and worker nodes

- Control plane components (API server, etcd, scheduler, controller manager)
- Node components (Kubelet, Kube Proxy, container runtime)

Installing and Configuring Kubernetes

- Setting up a local development cluster (e.g., Minikube)
- Installing Kubernetes on cloud platforms (e.g., AWS, Azure)
- Configuration files and tools (kubectl)

Deploying and Managing Containers with Kubernetes

- Creating pods and deployments
- Service and networking in Kubernetes
- ConfigMaps and Secrets

Scaling and Load Balancing

- Horizontal Pod Autoscaling (HPA)
- Cluster scaling and multi-cluster strategies
- Load balancing with Services

Persistent Storage in Kubernetes

- Persistent Volume (PV) and Persistent Volume Claim (PVC)
- Storage Classes
- StatefulSets

Configuring and Managing Applications

- Application configuration with ConfigMaps and Secrets
- Rolling updates and rollbacks
- Liveness and readiness probes

Helm and Package Management

- Introduction to Helm
- Helm charts and releases
- Managing applications with Helm

Kubernetes Networking

- Service networking (ClusterIP, NodePort, LoadBalancer)
- Ingress controllers
- Network policies

Security in Kubernetes

- Role-Based Access Control (RBAC)
- Pod security policies
- Secrets management and encryption

Monitoring and Logging

- Kubernetes monitoring with Prometheus
- Logging with Fluentd and Elasticsearch
- Metrics and alerting

Backup and Disaster Recovery

- ETCD backup and restore
- Disaster recovery strategies
- Backup tools and practices

Multicluster and Hybrid Kubernetes

- Federation of clusters



- Hybrid cloud Kubernetes
- Multi-cluster management tools

