



GETIN TECHNOLOGIES

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COURSE NAME: KUBERNETES TRAINING

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

Placement Eligibility:

Eligible: Any Bachelor Degree, Any Master Degree, MBA

Not 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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GST No: 33ABAFG2025J1ZV **Website:** www.getintech.in **Email:** enquiry@getintech.in

KUBERNETES COURSE SYLLABUS

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**



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