



**QUILLANCE  
INFOTECH PVT LTD.**

## **Cloud Computing**

The Quillance Cloud Computing Program is a complete beginner-to-advanced training program designed to help learners master cloud technologies, deployment workflows, DevOps practices, virtualization, cloud security, and scalable infrastructure management used by modern IT companies and enterprises.



# Program Overview

---

## What You Will Learn

- Understand cloud computing fundamentals and architecture
- Work with cloud infrastructure and virtualization concepts
- Deploy and manage applications on cloud platforms
- Learn DevOps workflows and CI/CD automation
- Configure cloud security and monitoring systems
- Build scalable and production-ready cloud environments

---

## Career Opportunities

After completing this program, learners can apply for roles such as:

- Cloud Engineer
- DevOps Engineer
- Cloud Support Associate
- AWS Cloud Associate
- Infrastructure Engineer
- System Administrator

# Live Projects You'll Build

---

- **Project 1 – Static Website Hosting on Cloud**

Deploy and manage a static website using cloud hosting services.

- **Project 2 – Linux Server Configuration Project**

Configure and manage Linux-based cloud servers.

- **Project 3 – Dockerized Application Deployment**

Containerize and deploy applications using Docker.

- **Project 4 – CI/CD Pipeline Automation**

Create automated deployment workflows using GitHub Actions and CI/CD tools.

- **Project 5 – AWS Cloud Infrastructure Setup**

Build and manage scalable infrastructure using AWS cloud services.

- **Project 6 – Kubernetes Cluster Deployment**

Deploy and manage containerized applications using Kubernetes.

## MODULE 1

# Cloud Computing Foundations

---

### TOPICS COVERED:

- Introduction to Cloud Computing
- Types of Cloud Services (IaaS, PaaS, SaaS)
- Public, Private & Hybrid Cloud Concepts
- Networking Fundamentals & Internet Basics
- Virtualization & Virtual Machines
- Linux Fundamentals & Command Line Basics

### SKILLS GAINED:

- Cloud Fundamentals
- Linux Basics
- Networking Understanding
- Virtualization Concepts

### PRACTICAL LEARNING:

- Understand cloud architecture basics
- Work with Linux operating systems
- Explore virtualization concepts
- Learn cloud service models

## MODULE 2

# Cloud Infrastructure & Deployment

---

### TOPICS COVERED:

- AWS Cloud Fundamentals
- EC2 Virtual Servers & Storage Services
- Domains, Hosting & DNS Management
- Cloud Storage & Backup Concepts
- Application Deployment Workflows
- Introduction to Cloud Security Basics

### SKILLS GAINED:

- Cloud Deployment Skills
- Hosting & DNS Management
- Infrastructure Configuration
- Cloud Resource Management

### PRACTICAL LEARNING:

- Launch cloud servers
- Configure hosting environments
- Deploy applications on cloud platforms
- Manage cloud resources and storage

## MODULE 3

# DevOps & Automation Fundamentals

---

### TOPICS COVERED:

- Introduction to DevOps Culture & Workflow
- Git, GitHub & Version Control
- Docker & Containerization Concepts
- CI/CD Pipelines & GitHub Actions
- Infrastructure Automation Basics
- Monitoring & Logging Fundamentals

### SKILLS GAINED:

- DevOps Workflow Understanding
- Deployment Automation
- Containerization Skills
- CI/CD Pipeline Configuration

### PRACTICAL LEARNING:

- Create deployment pipelines
- Work with Docker containers
- Automate application deployments
- Monitor deployed infrastructure

## Module 4

# Advanced Cloud Services & Kubernetes

---

### TOPICS COVERED:

- Kubernetes Fundamentals & Cluster Management
- Container Orchestration Concepts
- AWS Advanced Services (IAM, Load Balancer, Auto Scaling)
- Cloud Networking & VPC Concepts
- Storage, Backup & Disaster Recovery
- Scalable Infrastructure Management

### PRACTICAL LEARNING:

- Deploy Kubernetes clusters
- Configure scalable infrastructure
- Manage cloud networking
- Work with enterprise cloud services

### PRACTICAL LEARNING:

- Kubernetes Administration
- Cloud Scalability Concepts
- Infrastructure Orchestration
- Enterprise Cloud Management

# Cloud Security, Monitoring & Advanced DevOps

## TOPICS COVERED:

- Cloud Security Fundamentals
- Identity & Access Management (IAM)
- Monitoring & Logging Tools
- Infrastructure Security & Best Practices
- Advanced CI/CD & Deployment Strategies
- Performance Optimization & Scaling

## PRACTICAL LEARNING:

- Configure cloud security settings
- Monitor cloud infrastructure performance
- Optimize deployments and scaling
- Secure production environments

## ADVANCED CONCEPTS INCLUDED:

- Infrastructure Security Policies
- Secure Cloud Deployment
- High Availability Systems
- Automated Scaling Strategies
- Disaster Recovery Planning
- Production-Level Monitoring

## PRACTICAL LEARNING:

- Cloud Security Knowledge
- Monitoring & Logging Skills
- Advanced DevOps Understanding
- Production Infrastructure Management

## Module 6

# Live Cloud Project & Infrastructure Management

---

### TOPICS COVERED:

- Cloud Infrastructure Planning
- Team Collaboration & Agile Workflow
- Production Deployment Architecture
- Security & Monitoring Implementation
- Infrastructure Optimization & Troubleshooting
- Final Cloud Project Presentation

### SKILLS GAINED:

- Real-World Deployment Experience
- Team Collaboration Skills
- Infrastructure Troubleshooting
- Cloud Architecture Understanding

### PRACTICAL LEARNING:

- Work on real cloud infrastructure projects
- Deploy scalable applications
- Configure production monitoring systems
- Present cloud solutions professionally

# Placement & Career Preparation

---

## TOPICS COVERED:

- Resume Building & ATS Optimization
- LinkedIn & Professional Branding
- Cloud & DevOps Interview Preparation
- Mock Interviews & HR Preparation
- Certification Guidance (AWS, DevOps, Cloud)
- Career Guidance & Freelancing Strategy

## CAREER SUPPORT INCLUDES:

- Resume & Portfolio Reviews
- Mock Technical Interviews
- Internship & Placement Assistance
- Cloud Certification Guidance
- Career Mentorship Sessions
- Professional Communication Training



**QUILLANCE  
INFOTECH PVT LTD.**

# Thank You!!

---



Mail  
[info@quillance.com](mailto:info@quillance.com)



Website  
[www.quillance.com](http://www.quillance.com)