DevOps and Cloud Job Ready Program

Introducing PaperLive's Ultimate DevOps Course – your path to mastering Azure, GCP, and AWS!

DevOps and Cloud Job Ready Program:
Prepare to excel in your next DevOps and Cloud Computing interview with our intensive bootcamp. Designed for professionals seeking to enhance their technical skills and boost their career prospects, this Bootcamp provides comprehensive training, hands-on practice, and expert guidance.

Why DevOps?

- **High Demand in the Job Market:** DevOps professionals are in high demand as companies prioritize automation, cloud adoption, and continuous delivery, making it a lucrative career path.
- **Competitive Salaries:** DevOps engineers are among the top earners in tech, with companies offering attractive salary packages due to the specialized skill set required.
- **Enhances Career Growth:** A DevOps course opens doors to various tech roles, from cloud engineers to automation specialists, offering diverse career advancement opportunities.
- **Bridges Development and Operations:** DevOps skills enable you to work efficiently across development and operations, fostering collaboration and improving productivity within teams.
- **Practical, Hands-on Learning:** DevOps courses focus on real-world tools and practices, giving you practical experience with cloud platforms, CI/CD pipelines, and automation tools.
- **Future-Proof Career:** With the growing importance of cloud computing, containerization, and microservices, DevOps skills ensure you're well-equipped for the evolving tech landscape.
- **Versatility in Industries:** DevOps skills are transferable across multiple sectors, from finance and healthcare to e-commerce and entertainment, providing diverse job opportunities.

Top Jobs of the 21st Century

- A Million and One Job Posts- By 2026, there will be 1.1 million job ads worldwide for DevOps and cloud computing positions.
- Development of Skill- Professionals in cloud computing and devops have a variety of essential talents that help them get attractive employment offers.
- Expanding Industry in Cloud Computing and DevOps- Global cloud computing and DevOps sector CAGR of 22% by 2030
- Future-focused Professionalism- Cloud Computing and DevOps is a budding field; a head start will prove to be beneficial
- Strong Requirement- The demand for DevOps courses is skyrocketing as companies prioritize automation, continuous delivery, and cloud infrastructure. Mastering DevOps skills opens doors to high-paying tech roles across various industries.

About Bootcamp

PaperLive's DevOps course provides comprehensive, hands-on training in top cloud platforms like Azure, GCP, and AWS, ensuring you gain practical experience in automation, continuous integration, and cloud infrastructure management. With expert trainers guiding you through real-world scenarios, this course is designed to build your confidence and competence in key DevOps tools and practices. Whether you're looking to up-skill or launch a new career in tech, PaperLive's affordable and industry-focused program is your gateway to thriving in today's fast-evolving IT landscape.

Key Highlights

Live training for 140+ Hours
Live Sessions with Industry Experts for 4 Months
Particularized Career Services Meetings
1:1 Consultation with Industry Mentors
Ideal for Graduates with and without Technical Backgrounds
20+ Case Studies & Industry Projects
24*7 Support
Weekday Revision and Doubt-Clearing Sessions
IBM certification
Mock Interview Sessions
A Committed Learning Management Group

Pedagogy of Programs

Training supervised by instructors- Learn from leading industry professionals
Hackathons- See how actual projects are constructed.
24/7 Technical Assistance- Consult Subject Matter Experts at any moment to get immediate answers to your questions.
Group Learning and Peer Networking- Boost your career network and gain knowledge from colleagues by utilising our cutting-edge Peer Chat feature.
Self-paced videos- With top-notch content, learn at your own pace.
Interactive Training- Participate in group activities to find solutions to practical issues.

Looking for DevOps and Cloud Online Training? Call us at +91-9110995894 or visit www.paperlive.in

Who Can Apply for the Course?

- Those who have pursued B.Com, M.Com, M.Sc., BCA, MCA, B.E., B.Tech, M.Tech, B.Sc., and M.E.
- Students in their final year of college, recent grads, or those just graduating.
- Anyone seeking to move into cloud computing and DevOps as a career.
- Applications are accepted from both technical and non-technical candidates.

PaperLive DevOps Course Application Process

Submit Your Application

- Visit the PaperLive website and navigate to the DevOps and Cloud job ready program course page.
- Fill out the online application form with your personal details, background, and career goals.
- Submit the form to begin the process.

Receive a Call from Our Executive

- Once your application is received, one of our dedicated course executives will reach out to you within 24-48 hours.
- During the call, they will discuss the course details, answer any questions you may have, and ensure the course aligns with your goals.

Confirmation Email

- After the call, you'll receive a confirmation email from PaperLive, officially enrolling you in the DevOps course.
- The email will include all necessary details, such as your start date, course schedule, and access information.

Curriculum of the Program

DevOps Overview:

- Evolution of Waterfall, Agile and DevOps
- What is DevOps
- Why DevOps
- Benefits of DevOps
- DevOps Stages
- DevOps Lifecycle
- Various Automation in DevOps
- Overview of CICD

Fundamentals of Linux Operating System:

- Overview of Linux
- Linux Architecture
- Linux Distributions
- Basic Linux Commands
- File Permission Management
- User Creation
- Shell Scripts
- SSH and VI Utilit

Fundamentals of Python scripting:

- Overview of Python
- Features, Benefits, Uses of Python
- Installation and Setup of Python Environment
- Various Types of Sequences in Python
- File Operations
- Python Functions
- OOPs Concepts
- Modules
- Errors and Exception Handling
- Python Console based application and Web Application using Flask
- Deploying and Consuming Python Applications

Version Control System using - Git and GitHub:

- Overview of Version Control System
- Central vs Distributed Version Control System
- Introduction to Git
- Installation and setting up Git
- Important Git Commands
- Creating and Managing git Repositories
- Git File Workflow
- GIT-IGNORE
- GIT Misc Commands
- Reverting and Resetting
- GIT Branching Strategies
- Working with GIT Branching
- Branching, Merging
- Rebase and Squash
- GIT Stash
- Introduction to GitHub
- Managing Remote Repositories
- Handling Github repositories using Visual Studio Code

Curriculum of the Program

Understanding and Using Build Tools:

- Overview of Various Build Tools
- What is Maven
- Maven Architecture
- Maven Plugins
- Maven Archetypes
- Maven Commands
- Integration of Jacoco plugin for Code Coverage
- Overview of Maven Application

Continuous Integration Using Jenkins:

- Overview of Continuous Integration
- Difference between Continuous vs Traditional Integration
- Overview of Jenkins
- Jenkins Master-Slave Architecture
- Jenkins Installation and Configuration
- Jenkins Plugins
- Jenkins Management
- Jenkins Freestyle and Pipeline Jobs
- Scripted and Declarative Pipelines
- Configuring Slave Node to Jenkins
- Configure Tomcat Server
- Integrate and Deploy to Tomcat Server using Jenkins
- Jenkins Build Triggers
- Enable Email Notifications

Containerization, Docker, and Docker Hub:

- Introduction to Virtualization and Containerization
- What is Containerization
- Docker Architecture
- Overview of Docker Hub
- Docker Installation
- Docker Commands
- Container Modes
- Port Binding
- Docker file
- Managing Docker Images
- Running and Managing Containers
- Docker Volume
- Docker Compose
- Overview of Docker Swar

Container Orchestration Tool – Kubernetes:

- Overview of Container Orchestration
- Different between Docker swarm and Kubernetes Cluster
- Kubernetes Architecture
- Installation of Kubernetes – Minikube
- Kubernetes Nodes
- Kubernetes Pods
- Kubernetes Deployments
- Rolling updates and rollbacks
- Scaling up and down of the application
- Services in Kubernetes
- Kubernetes HostPath Volume
- Namespaces

Configuration Automation using Ansible:

- Overview of Configuration Automation
- Introduction to Ansible
- Ansible Architecture
- Components of Ansible
- Installation and Configuration of Ansible
- Ansible ad-hoc commands
- Ansible Playbooks
- Ansible Variables
- Ansible Handlers
- Ansible Role using Ansible Galaxy

Container Orchestration Tool – Kubernetes:

- **Introduction to Terraform**
- **Terraform Vs Ansible**
- **Terraform Architecture**
- **Terraform Configuration**
- **Terraform Commands**
- **Managing Terraform Resources**
- **Terraform End to End Project**

Continuous Monitoring using Prometheus and Grafana:

- **Overview of continuous monitoring**
- **Continuous monitoring tools in DevOps**
- **Installation and Configuration of Prometheus and Grafana**
- **Prometheus Architecture**
- **Monitoring using Prometheus**
- **Dashboard visualization using Grafan**

Module 1 - Getting Started with Microsoft Azure

- What do you mean by cloud computing?
- A deep dive into Microsoft Azure
- Exploring the various services provided by
- Microsoft Azure
- Demonstrating the working of the Azure Portal
- Usage and understanding of Azure Command Line
- Interface (CLI)
- Working with the Azure PowerShell
- Hands-on

Module 2- Examine the Work of the Azure Resources Manager and Azure Storage

- Setting up the Azure Resources and Subscriptions
- Understand the work of Azure Resource Manager
- Managing Azure resources by using the Azure Portal
- How to use the Azure Tags?
- Explain the working of Azure Storage Account and its types
- How to work with Azure Blob Storage
- Implementation of Azure Content Delivery Network Profile with Endpoints
- Examine how to create and use Azure file storage
- Navigate to the function of Azure File Sync

Module 3- Getting Started with the Azure Storage Services

- Explore the working of Azure table storage
- How to use and manage Azure queue storage?
- Demonstrating the function of Azure storage explorer
- Create and provide access to an account for Azure shared access signature (SAS)
- Overview of the working of Azure Databox and its use cases
- How to perform and manage Azure storage replication
- Identify the data replication options
- Illustrate the functions of the Azure Import/Export service

Curriculum of the Program

Module 4 - Navigate the Compute Services on the Microsoft Azure Platform

- Navigating to the Azure virtual machines
- Classify the use of Data disks in Azure
- Illustrate the work of Azure VMs and Interfaces
- Explain how to use the Azure Resource Manager templates.
- Examine the ways to create a virtual hard disk template
- Creating and launching the Custom images of Azure VM
- Elaborate on the function of Virtual machine scale sets
- Overview of the Virtual machine availability sets

Module 5- Container Services on Microsoft Azure

- Navigate to the function of containerized web apps on Windows and Linux.
- Overview and management of the App service plan
- Examine the Networking for an app service and its deployment types
- Selecting the Deployment slots by using the Azure Portal
- How to push and pull the Container image
- Elaborate on the working of the Azure Kubernetes service
- Building and pushing the container images to the Azure container registry

Module 6- Navigate the Azure Networking Services Part - I

- Overview of the working of Azure virtual networks
- What are the Azure VNet components?
- Understanding the concepts of IP address public and private IPs
- Elaborate on the working of Azure VNet subnets
- Create and manage the Azure network interface cards (NIC)
- What are the workings of the Network Security Group (NSG)?
- Configure and elaborate on the concept of Route tables
- How to use the Service tags
- Overview of the function of Azure DNS
- How to manage and resolve the Private DNS

Curriculum of the Program

Module 7 - Navigate the Azure Networking Services Part - II

- Overview of the working of the
- Application gateway
- Understanding the architecture and
- features of Azure front door service
- Illustrating how the Azure traffic manager works
- Overview of the concepts of Application Security Groups
- How to use the Azure load balancers
- Elaborate on the architecture and features of the Azure firewall
- What is Azure Bastion?
- Navigate the working of the Network watcher
- Illustrate the function of Azure express route
- Understanding the Express route circuits
- How to use the Express route peering

Module 8- Overview of Authorization and Authentication in Azure with RBAC

- Overview of the working of identity and access management in Azure
- How to manage Role-based access management (RBAC)
- What are Role definitions?
- Understanding Role Assignment in Azure Resources
- Navigate the working of Azure users and groups
- How to implement the RBAC policies

Module 9 - Exploring the Microsoft Azure Active Directory (Microsoft Entra ID)

- Learn Azure active directory (Azure AD)
- Compare the difference between Windows AD and Azure AD
- How to use Azure AD users
- How to use Azure AD groups
- Illustrate the working of Azure AD domains
- Creating a new Azure AD tenants (Microsoft Entra tenant)
- What are the Authentication options?
- How to use Azure AD Connect?
- How to perform Self-service password reset (SSPR)
- Overview of Microsoft Entra Multi-factor authentication (MFA)
- What are the Resource locks?
- Understand the concepts of MFA fraud alerts
- Navigate the use of MFA bypass options
- Configuring the MFA trusted IPs
- How to use the Multi-factor Authentication verification methods
- Illustrate the concepts of the Azure key vault
- Automated Azure AD managed identities in Microsoft Entra ID
- Explore the Azure AD application management

Curriculum of the Program

Module 10 - Overview of the Monitoring Services on Azure

- How to use the Azure Monitor?
- Navigate to how to create an Azure metrics
- Evaluate the logs from the Log Analytics
- Creating alerts and actions
- How to use the Application Insights using the Azure Monitor
- Configuring and viewing the Backup reports
- Explore the function of the Recovery Services vault
- How to back up Azure virtual machines
- Implementing the policy using the VM backup policies
- How to restore Azure virtual machines

Module 11 - Overview of Azure DevOps

- Understanding Azure DevOps concepts
- Azure Boards
- Azure repos
- Azure pipelines
- Deploying web applications using Azure pipelines.

Module 12 - Azure Graph Databases Overview of Graph Databases

- Explain User-defined functions (UDFs)
- Elaborate the Table API
- Overview of Cosmos DB graph database
- Define the concepts Vertices and edges
- What is populating the graph?
- Deduce the Bi-directional relationships
- Storing, querying, and traversing massive graphs with the Writing Gremlin queries
- Working with Azure table storage

Module 13- Working with the Azure Data Platform Part - I

- Overview of the SQL and NoSQL Databases
- Understand the concepts of Cosmos DB
- Working with multiple APIs and data models
- What are request units?
- How to use the Request Unit calculator
- How to Achieve elastic scale in Azure SQL Database
- What is the partition key in Azure?
- Overview of the concepts of Cross-partition queries
- How to do Replication in Azure
- Understanding the turnkey global in Azure
- Identify the Distribution
- What is the turnkey global distribution in Azure?
- Working of Replication and consistency
- What are the consistency levels in Microsoft Azure?
- Working of Document database
- How to use the Cosmos DB resource model
- Define the concepts Resource properties, self-inks, and URLs

Module 14 - Working With the Azure Data Platform Part - II

- What is the data migration tool?
- Working with the Rich queries with SQL
- Learn SQL operators and functions
- How to use client development
- Understanding the working of Indexing policies
- Explore the concepts of Users, permissions, and resource tokens
- What is the Server-side programming model?
- How to use the Triggers

Tools To Master

AWS Solution Architect Associate

Module 1 : Introduction to Cloud Architecting

- Introduction
- Why should I learn AWS?
- Why should I get certified with AWS?
- Roles in Cloud Computing

Module 2 : Introduction to the Course

- Introducing to Cloud Architecting
- The AWS Well Architected Framework
- Best Practices for Building Solutions on AWS
- AWS Global Infrastructure

Module 3 : Compute Layer

- EC2 (Introduction)
- Launch our First EC2 Instance with Windows (Part – I)
- Launch our First EC2 Instance with Linux (Part – II)
- Security Group - Practical Lab
- EBS (Introduction)
- EBS Volume and Snapshots - Practical Lab
- AMI Types (EBS BS Instance Store)
- ENI
- Encrypted Root Device Volume and Snapshot
- EC2 Pricing Model
- EC2 Hibernate
- CloudWatch (Introduction)
- CloudWatch - Practical Lab
- AWS Command Line (CLI) - Practical Lab

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Module 4 : Storage Layer

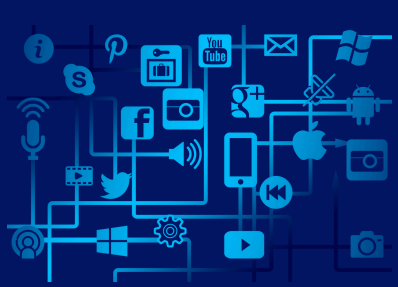
- S3 (Introduction)
- Create an S3 Bucket - Practical Lab
- S3 Pricing Tiers
- S3 Security
- S3 Encryption
- S3 Versioning - Practical Lab
- Lifecycle Management with S3 - Practical Lab
- S3 Performance
- S3 Select and Glacier Sheet
- AWS Organizations and Consolidated Billing
- Sharing S3 Buckets Across Accounts - Practical Lab
- Cross-Region Replication - Practical Lab
- S3 Transfer Acceleration
- AWS Data Sync
- Creating a Static Website using Amazon S3
- EFS - Practical Lab
- Amazon FSX for Windows and Amazon FSX

Module 5 : Database Layer

- Databases (Introduction)
- Let's create our First RDS Instance - Practical Lab
- RDS: o Backups
- Multi-AZ
- RDS: o Backups - Practical Lab
- Multi-AZ - Practical Lab

Module 6 : Securing User and Application Access

- Identity and Access Management (Introduction)
- Identity and Access Management - Practical Lab
- Create a Billing Alarm - Practical Lab
- AWS Directory Service
- IAM Policies - Practical Lab
- AWS Single Sign-on
- Advanced IAM Summary



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Module 7 : Creating a Network Environment

- VPC (Introduction)
- Create your Own Custom VPC: Part 1 - Practical Lab
- Create your Own Custom VPC: Part 2 - Practical Lab
- NAT Instances - Practical Lab
- NAT Gateways - Practical Lab
- Network Access Control Lists VS Security Groups - Practical Lab
- Custom VPCs and ELBs - Practical Lab
- VPC Flow Logs - Practical Lab
- Bastions - Practical Lab
- AWS Network Costs
- Working with AWS VPC Flow Logs for Network - Practical Lab
- Creating a Basic VPC - Practical Lab
- Associated components in AWS - Practical Lab

Module 8 : Connecting Networks

- VPC peering same region
- VPC peering another region
- VPC peering same region another account
- VPC peering another region another account
- VPN

Module 9 : Implementing Elasticity, High availability

- Elastic Load Balancer (Introduction)
- Load Balancers - Practical Lab
- Health Checks - Practical Lab
- Advanced Load Balancer Theory
- Auto-scaling
- Launch Configurations and Auto Scaling Groups - Practical Lab
- HA Architecture
- Building a Fault-Tolerant WordPress Site: Getting Set Up - Practical Lab
- Building a Fault-Tolerant WordPress Site: Setting Up EC2 - Practical Lab
- Building a Fault-Tolerant WordPress Site: Adding Resilience and Auto Scaling
- Building a Fault-Tolerant WordPress Site: Cleaning Up - Practical Lab
- Building a Fault-Tolerant WordPress Site: - Practical Lab

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Module 10 : Cashing Content and Global Delivery

- CloudFront (Introduction)
- Create a CloudFront Distribution - Practical Lab
- CloudFront Signed URLs
- CloudFront Signed Cookies
- Global Accelerator
- DNS (Introduction)
- Register a Domain Name - Practical Lab
- Route 53: Routing Policies Available on AWS
- Route 53: Simple Routing Policy - Practical Lab
- Route 53: Weighted Routing Policy - Practical Lab
- Route 53: Latency-Based Policy - Practical Lab
- Route 53: Failover Routing Policy - Practical Lab
- Route 53: Geolocation Routing Policy - Practical Lab
- Route 53: Geo-proximity Routing Policy (Traffic Flow only)
- Route 53: Multi-value Answer Policy - Practical Lab

Module 11 : Building Decoupled Architecture

- Simple Notification Service - Practical Lab
- Lambda - Practical Lab

Module 12: Planning for Disaster

- Planning for Disaster
- Part 1: Disaster Planning Strategies
- Part 2: Disaster Planning Strategies
- Part 3: Disaster Planning Strategies
- Part 1: Disaster Recovery Patterns
- Part 2: Disaster Recovery Patterns
- Hybrid Storage and Data Migration with AWS Storage Gateway - Practical Lab
- File Gateway - Practical Lab

Some Additional AWS Services Overview

- Code Pipeline
- Code build
- ECR
- ECS
- Systems Manager
- Security hub
- Config
- Backup
- Secrets Manager
- CloudTrail
- Security Hub
- Certificate Manager
- Billing-Costs reports

Curriculum of the Program

GCP

Module 1 - Setting up a cloud solution environment:

- Setting up cloud projects and accounts
- Installing and configuring the command line
- interface (CLI), specifically the Cloud SDK

Module 2 - Planning and configuring a cloud solution:

- Planning and estimating Google Cloud product use using the Pricing Calculator
- Planning and configuring compute resources
- Planning and configuring data storage options
- Planning and configuring network resources

Module 3 - Deploying and implementing a cloud solution:

- Deploying and implementing Compute Engine resources
- Deploying and implementing Google Kubernetes Engine resources
- Deploying and implementing Cloud Run and Cloud Functions resources
- Deploying and implementing data solutions
- Deploying and implementing networking resources
- Deploying a solution using Cloud Marketplace
- Implementing resources via
- infrastructure as code

Module 4 - Ensuring successful operation of a cloud solution:

- Managing Compute Engine resources
- Managing Google Kubernetes Engine resources
- Managing storage and database solutions
- Managing networking resources
- Monitoring and logging

Module 5 : Configuring access and security:

- Managing Identity and Access Management
- Managing service accounts
- Viewing audit logs

Course Projects

1. Dynamic Blog Sites: Web Development

To create a secure, reliable, usable, and readily available website using AWS. This is implemented used AWS Storage and Internet gateways to process Dynamic User Inputs

2. Deploy Web Applications on Azure:

This is to create a secured application deployment on Azure Cloud Platform using containers, push it to Azure Container Registry, and deploy it as a container to Azure App Service.

3. E-Commerce Application Azure:

The Project aims to create a highly scalable E-Commerce Application and deployed on Azure Cloud Platform. This involves Containerized microservice based applications deployed using AKS.

4. Dynamic Infra-Structure Management:

Learners can able to use Terraform and Ansible on Azure to create highly reliable dynamic infrastructure

5. Setup dedicated VPCs: Insurance

Deployment of Web Applications in a Dedicated VPCs on AWS/Azure/GCP. With this project, Learners can able to master in using IAC Tools like Terraform and Ansible

6. Deployment web application using Azure serverless architecture using Azure functions.

Creation of a serverless web application using Azure serverless architecture using Azure functions.

7. Automated Continuous Monitoring:

The project aims to create a highly available production environments using Azure Monitoring services with proactive alert management and automated webhooks.

8. Applications Deployments in scalable cloud environment:

In this Project, Learners can able to understand the concepts of high availability and auto-scaling in a dynamic cloud environment with zero downtime.

9. Project with advanced networking concepts:

Build and deploy an application in a secure environment with advanced networking concepts like virtual networks, subnets, network peering etc.

10. Deploy an application using NoSQL Database Cosmos DB:

Build and deploy an application using NoSQL databases like Cosmos DB and graph database.

CASE STUDY

1. Continuous Integration/Continuous Delivery (CI/CD) Pipeline for a Web Application

- **Objective:** Set up a fully automated CI/CD pipeline for a web application.
- **Case Study:** A software development team wants to reduce the time taken to release new features. As a DevOps engineer, your task is to automate the testing, building, and deployment of the application using tools like Jenkins, Docker, and Kubernetes.
- **Key Tools:** Jenkins, GitHub, Docker, Kubernetes, Terraform.
- **Outcome:** Faster and more reliable deployment process with minimal manual intervention.

2. Migrating to Azure

- **Objective:** Migrate an on-premise application to Azure with minimal downtime.
- **Case Study:** A company running a large e-commerce platform on physical servers wants to migrate to Azure for scalability and reliability. As part of the DevOps team, your task is to plan and execute this migration.
- **Outcome:** Efficient cloud migration with automated infrastructure management.

3. Infrastructure as Code (IaC) Implementation

- **Objective:** Implement Infrastructure as Code (IaC) to manage cloud infrastructure.
- **Case Study:** A startup needs scalable infrastructure for its expanding user base. The company wants to use IaC for infrastructure management to automate provisioning and deployment processes. You'll use tools like Terraform and Ansible to manage infrastructure on Azure.
- **Key Tools:** Terraform, Ansible, Azure.
- **Outcome:** Fully automated infrastructure setup, resulting in reduced configuration errors and faster provisioning.

4. Monitoring and Alerting for a Microservices Architecture

- **Objective:** Set up monitoring and alerting systems for a microservices-based architecture.
- **Case Study:** A company running microservices-based applications wants to monitor their health and performance. Your role is to implement monitoring solutions using Prometheus, Grafana, and ELK stack, and set up alerts for service downtimes or performance issues.
- **Key Tools:** Prometheus, Grafana, Helm charts.
- **Outcome:** Real-time monitoring and alerting system that ensures high availability and performance of services.

5. Dockerizing an Application and Orchestrating with Kubernetes

- **Objective:** Containerize a legacy application and deploy it using Kubernetes.
- **Case Study:** An enterprise wants to containerize its legacy application to make it more portable and scalable. Your task is to create Docker images for the application and orchestrate them using Kubernetes, implementing auto-scaling, and load balancing.
- **Key Tools:** Docker, Kubernetes, Helm.
- **Outcome:** Seamless application deployment with scalable infrastructure and reduced deployment complexities.

6. DevSecOps: Automating Security in the DevOps Pipeline

- **Objective:** Integrate security checks into the DevOps pipeline (DevSecOps).
- **Case Study:** A financial services company needs to ensure its application remains secure while adopting DevOps practices. You will automate security testing and vulnerability scans using tools like OWASP ZAP, Snyk, and SonarQube.
- **Key Tools:** OWASP ZAP, Snyk, SonarQube, Jenkins.
- **Outcome:** A secure CI/CD pipeline that automatically identifies and fixes security vulnerabilities during the build process.

7. High Availability (HA) and Disaster Recovery (DR) Implementation

- **Objective:** Design and implement a High Availability and Disaster Recovery system.
- **Case Study:** A critical financial application requires uninterrupted service. You will implement HA using load balancers and multi-region deployments, and set up DR plans for failover in case of disasters.
- **Key Tools:** Azure Load Balancer, Auto scaling using Azure VM scale set.
- **Outcome:** Highly resilient and fault-tolerant application architecture.

8. Automating Blue-Green Deployment for a Web Application

- **Objective:** Automate a blue-green deployment strategy to minimize downtime during updates.
- **Case Study:** A company wants to ensure zero downtime during application updates. You will implement an automated blue-green deployment strategy using CI/CD tools.
- **Key Tools:** Azure DevOps, Azure app services.
- **Outcome:** Zero-downtime deployment process ensuring smooth application rollouts.

FAQ.

1. What is the PaperLive Devops and Clouds Job Ready Program Certification?

This is a four-month online program that is both demanding and interesting. It is specifically created for working professionals who wish to accelerate their entry into cloud and DevOps jobs, build a professional network, and gain practical knowledge and skills. IBM is the one who grants the certification.

2. What can I anticipate from the for Devops and Cloud job ready program?

Anticipate to complete multiple industry-relevant exercises that are modelled after real-world work environments, enabling you to become a cloud/DevOps expert on par with top industry standards. Through this curriculum, students will develop their technical soundness and learn how to think beyond the box.

3. What kind of educational experience can I anticipate?

This curriculum will combine recorded content on several subjects with live lectures delivered in a boot camp style. A combination of interactive lectures from well-known academics and business executives will make up the curriculum. At least one cloud domain certification is held by each of our industry specialists, and many of them possess several domain certifications. During this course, you can anticipate a lively setting where you will enhance your expertise in the field and grow your professional network.

4. What amount of hours a week is needed of me?

The program schedule is structured to make sure you can work a job and successfully complete your studies. It should be sufficient to dedicate 10–12 hours per week to the program. That being said, the more time you invest, the more you will learn from the curriculum.

5. Which cloud computing platforms does the program cover?

With a multi-cloud approach, the curriculum prepares students for cloud certification examinations and real-world scenarios by covering AWS, Azure, and GCP.

6. At program's conclusion, is there a certification awarded?

You will be qualified to get IBM's Certificate in Devops and Clouds Job Ready Program upon successful completion of the course. In addition, you will be qualified for a PaperLive course completion certificate. Please be aware that finishing this program does not entitle you to an AWS, Azure, or GCP certification. You must pass the relevant exams in order to do that. However, the training we offer will equip you with the knowledge and abilities needed to pass the following exams: Microsoft Certified: Azure Administrator Associate, Microsoft Certified: Azure Fundamentals, and AWS Certified Cloud Practitioner.

7. Is there a curriculum update?

Yes, IBM and industry experts provide comments to enhance the curriculum. The institution reserves the right to alter the curriculum at any time.

8. What does the fee structure cover?

You will have exclusive access to add-on content from AWS and Azure as well as relevant PaperLive information. Please be aware that the cost of the certification examinations is not covered by the program fees.

9. What are the minimal requirements in order to apply for the program?

A bachelor's degree is required for enrolment in the Devops and Clouds Job Ready Program. Prior experience with coding is not required, however it is desirable.

10. If I hold an undergraduate degree other than a B.Tech, B.E, B.Sc., or BCA, may I still apply?

Indeed. We invite you to apply for the program and include information about it if your prior schooling included sufficient computer and mathematical experience.

11. Does someone need to have coded before?

An applicant does not need to have any prior coding skills to enrol in this program.

12. If I am in my final year of an undergraduate degree, may I still apply to the program?

Yes, you are eligible to apply even though you are in your last year of college.

13. How can this course benefit my professional life?

Your career as an AWS/Azure Cloud Infrastructure Engineer, Cloud Operations Engineer, Cloud Network Engineer, Cloud Security Engineer, DevOps Engineer, or Site Reliability Engineer, to mention a few, will be prepared for you by this curriculum, depending on your prior experience. Additionally, the program will assist you with resume criticism, profile development, mentoring, and practice interviews.

14. Following this program, will I be able to get employment?

The cloud computing sector is poised for rapid expansion. Small enterprises in India's healthcare, education, and agriculture sectors are predicted to unlock ₹1.6 trillion annually by 2030—a 152% increase from ₹0.6 trillion—through a successful transition to a cloud-enabled economy. Additionally, we will assist you with getting ready for your ideal job through resume critiques, profile building, mock interviews with cloud/DevOps professionals, and one-on-one career mentoring conversations.

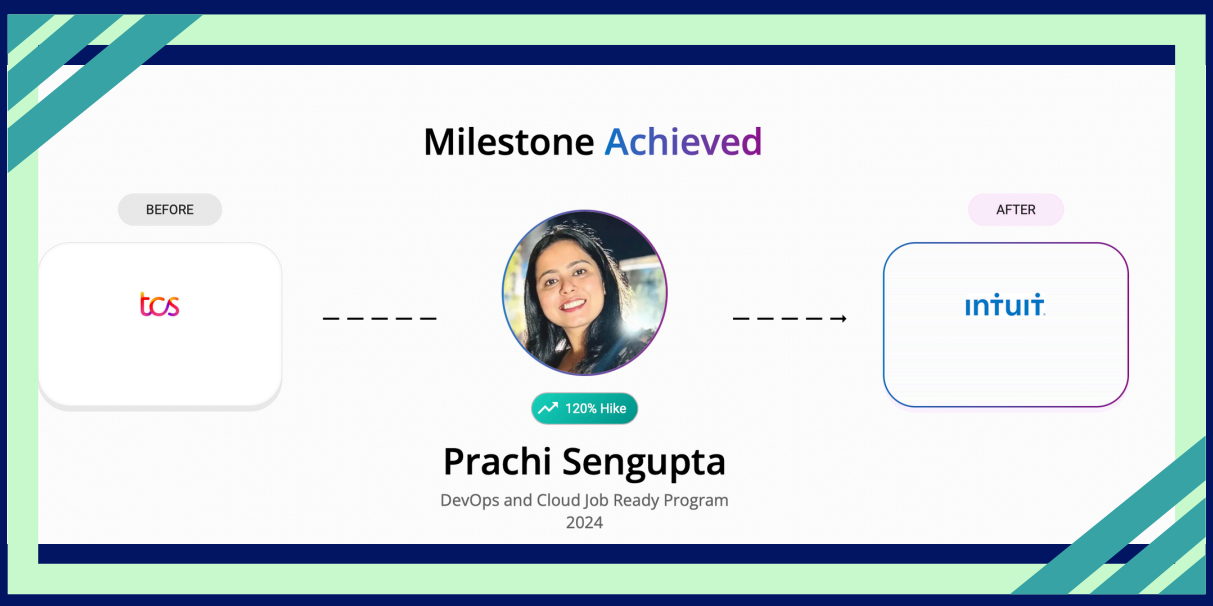
15. What distinguishes the program from other online courses offered by vendors in the market?

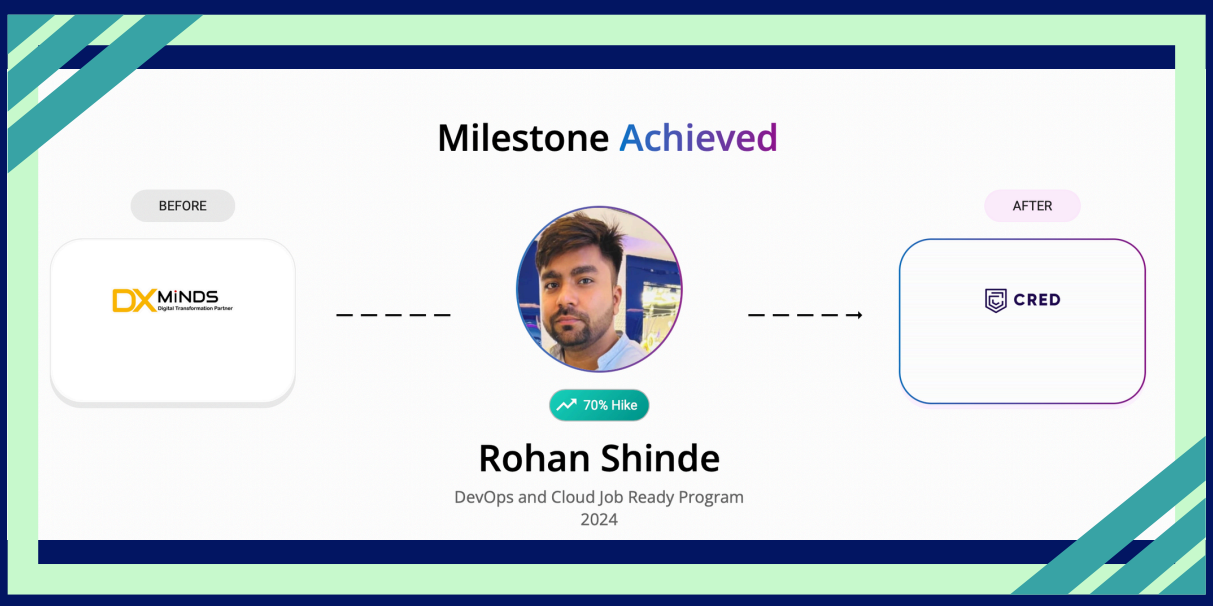
Leading professional experts and top IBM instructors collaborated to build the content and learning experience for this program.
The only program that covers the three most widely used cloud platforms as part of the same curriculum is the multi-cloud approach. Every other participant provides one or more platforms as an optional or elective module.
"Mentorships": The only program that provides co-creation of mentored projects with leading product firms such as Flipkart, Uber, and BlinkIt. These contribute to the development of industry-demanding skills.
In addition, the PaperLive Experience makes sure you build a large peer network, relationships with industry instructors, and plenty of career support—all in all, an all-encompassing and immersive online and offline learning experience!

PaperLive Career Services:

1. Career Oriented Sessions- Plan your professional path by attending more than ten career-oriented sessions led by industry experts.
2. Profile Development- Create a compelling LinkedIn profile and resume for Cloud Computing and DevOps to get the attention of top employers.
3. Mock Interview Preparation- Practice with simulated interviews using the most common questions from reputable companies.
4. One-on-one mentoring sessions- Get one-on-one coaching at every stage of your career shift to DevOps and cloud computing.
5. Hackathons- Get exclusive access to hackathons by working on terms

A Sneak Peak at Our Smooth Transitions:





Why PaperLive?

- **Expert-Led Training:** PaperLive's DevOps course is taught by industry professionals with deep expertise, ensuring you learn from the best in the field.
- **Hands-On Real-World Experience:** The course focuses on practical, real-world assignments, giving you hands-on experience with the tools and techniques used by top companies.
- **Comprehensive Cloud Platform Coverage:** PaperLive offers training in major cloud platforms like AWS, Azure, and GCP, preparing you for diverse roles in cloud computing and DevOps.
- **Career-Ready Programs:** Our 10/10 rated DevOps and Cloud Job-Ready program is designed to help you stand out in the job market and accelerate your career growth.
- **Affordable Pricing:** PaperLive offers high-quality education at competitive prices, making top-tier DevOps training accessible without breaking the bank.
- **Personalized Support:** With a dedicated support team and personalized guidance from experts, you'll get the help you need throughout the course, ensuring a smooth learning experience.
- **Interactive and Engaging Courses:** The interactive nature of our lessons, combined with real-world projects and group learning, makes learning enjoyable and highly effective.

About Paperlive

PaperLive is a cutting-edge edtech company focused on delivering specialized training in DevOps and cloud technologies. Our courses are designed to provide learners with in-demand skills in leading cloud platforms such as AWS, Azure, and GCP, preparing them for high-growth careers in the tech industry. What sets PaperLive apart is our commitment to hands-on learning, with expert instructors guiding students through real-world projects and practical applications. Our personalized support system ensures that learners get the assistance they need to succeed, whether they're just starting out or looking to upskill. With affordable pricing and a focus on career readiness, PaperLive is dedicated to helping individuals thrive in the rapidly evolving world of cloud and DevOps.

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