



# CloudOps Foundation Certification

## About DevOpsSchool

DevOpsSchool is a unit of "Cotocus PVT Ltd" and a leading platform which helps IT organizations and professionals to learn all the emerging technologies and trend which helps them to learn and embrace all the skills, intelligence, innovation and transformation which requires to achieve the end result, quickly and efficiently. We provide over 40 specialized programs on DevOps, Cloud, Containers, Security, AI, ML and on Big data that are focused on industry requirement and each curriculum is developed and delivered by leading experts in each domain and aligned with the industry standards.

## About Course

CloudOps Foundation Certification is a globally recognized qualification that equips IT professionals with the fundamental knowledge and skills required for successful cloud operations. CloudOps, short for Cloud Operations, refers to the practices and tools used to manage, monitor, and optimize cloud services. It emphasizes the integration of cloud-based systems, management of resources, automation of processes, and ensuring the effective operation of cloud platforms in various organizational settings.

The CloudOps Foundation Certification is designed to provide individuals with a strong foundation in cloud operations. This entry-level certification introduces essential concepts, methodologies, and tools associated with CloudOps, offering candidates an opportunity to develop the skills needed to manage cloud environments efficiently. By obtaining the certification, professionals demonstrate their understanding of the core principles of cloud operations, making them capable of contributing to the success of cloud-based systems and services..



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Duration	5 days
Mode	Online (Instructor-led, live & Interactive)
Projects (Real time scenario based)	1

FEATURES	DEVOPSSCHOOL	OTHERS
Faculty Profile Check	✓	✗
Lifetime Technical Support	✓	✗
Lifetime LMS access	✓	✗
Top 25 Tools	✓	✗
Interviews Kit	✓	✗
Training Notes	✓	✗
Step by Step Web Based Tutorials	✓	✗
Training Slides	✓	✗
Training + Additional Videos	✓	✗

## Training

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DevOps As part of this course, you would be strong in DevOps technology. You would learn Linux, Python, DevOps, Docker, Jira, Git, SonarQube, Maven, Ansible, Jenkins, Kubernetes, Datadog, Splunk, NewRelic, Terraform and various other stacks related to this methodology.

## Projects

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As part of this initiative, trainer would help you to execute one real time scenario based project, doing it end to end and step by step to visualize a real agile work environment in any organization.

## Interview

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As part of this, you would give complete CloudOps Foundation Certification interview preparations Kit. This interview kit will help you organize your application and interview with eas

# AGENDA : CLOUDOPS FOUNDATION CERTIFICATION

## Day 1 - Introduction to CloudOps

### Introduction to DevSecOps

- Understanding the role of CloudOps in cloud computing
- Key differences between CloudOps and traditional IT operations
- CloudOps lifecycle: Development, Deployment, and Optimization

### Cloud Computing Basics

- Cloud Computing Models (IaaS, PaaS, SaaS)
- Cloud Deployment Models (Public, Private, Hybrid)
- Cloud Service Providers Overview (AWS, Microsoft Azure, Google Cloud).

### CloudOps Core Principles

- Automation, Monitoring, Security, and Compliance in CloudOps
- Introduction to CloudOps tools and frameworks
- CloudOps roles and responsibilities.

### Hands-On Activity

- Set up a cloud environment and basic CloudOps configuration using one of the major cloud platforms.



## Day 2 - CloudOps Architecture and Design

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### CloudOps Architecture and Design

- Principles of designing cloud infrastructure
- Building scalable, resilient, and cost-effective cloud architectures
- High availability, redundancy, and fault tolerance in cloud environments.

### Infrastructure as Code (IaC)

- What is IaC and why it is important in CloudOps
- Introduction to IaC tools: Terraform, Ansible, AWS CloudFormation.

### Cloud Security and Compliance

- Key cloud security concepts and best practices
- IAM (Identity and Access Management) in cloud environments
- Compliance frameworks (GDPR, HIPAA, SOC2).

### Hands-On Activity

- Build a simple cloud infrastructure using IaC tools (Terraform or CloudFormation).



## Day- 3 CloudOps Automation and Continuous Delivery

### CloudOps Automation Overview

- Introduction to automation in CloudOps
- Tools for automating cloud infrastructure and workflows (Ansible, Jenkins, Terraform).

### Continuous Integration and Continuous Deployment (CI/CD) in CloudOps

- Overview of CI/CD in cloud environments
- Setting up CI/CD pipelines for cloud-based applications.

### Performance Monitoring and Metrics Collection

- Best practices for cloud monitoring
- Setting up performance metrics for cloud resources
- Introduction to cloud monitoring tools (Prometheus, CloudWatch, Datadog).

### Hands-On Activity

- Automate a CI/CD pipeline using Jenkins for a cloud-based application.



## **Day - 4 CloudOps Lifecycle Management and Optimization**

### **CloudOps Lifecycle Management**

- Managing cloud environments through the lifecycle: provisioning, deployment, monitoring, and scaling
- Proactive incident management and troubleshooting
- Cloud automation for efficient resource management.

### **Cloud Cost Management and Optimization**

- Best practices for cost optimization in the cloud
- Managing cloud budgets and usage through cost monitoring tools
- Cloud cost forecasting and optimization strategies.

### **Backup, Disaster Recovery, and Business Continuity**

- Importance of backup and disaster recovery in CloudOps
- Building resilient and fault-tolerant systems in the cloud
- Designing business continuity plans.

### **Hands-On Activity**

- Set up cost monitoring and auto-scaling for cloud resources





## Days – 5 CloudOps Security, Governance, and Exam Preparation

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### CloudOps Security Essentials

- Advanced cloud security measures: data encryption, firewalls, DDoS protection
- Identity and Access Management (IAM) best practices in CloudOps
- Managing vulnerabilities and securing cloud infrastructure.

### CloudOps Governance and Compliance

- Implementing governance policies in the cloud
- CloudOps auditing, reporting, and compliance tracking
- Ensuring adherence to industry standards and best practices.

### Exam Preparation and Certification Overview

- Key topics to focus on for the CloudOps Foundation Certification exam
- Tips and tricks for successfully passing the exam
- Review of practice questions and case studies.

### Final Hands-On Activity

- Perform a comprehensive cloudOps lifecycle task integrating automation, cost management, and security measures.

# Thank you!

Connect with us for more info

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