

Certification Program in

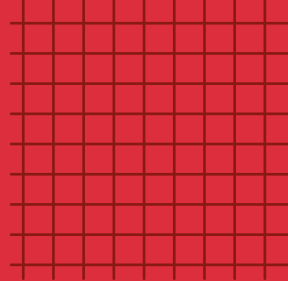
CLOUD DEVOPS

Course duration: 6 months



FROM THE
HOUSE OF
upGrad 





About Us

upGrad campus is a **video learning platform for online education**, with certificate courses specially curated for college goers and young adults. As an affiliate of upGrad, India's largest online higher education company, Campus's goal is to make every graduate job ready, with professional skills and practical know-how for sought-after fields of work.

“Our aim is simple:
We strive to create
high-impact, hands-on
experiences that
prepare learners for
meaningful and
productive careers.”

Ronnie Screwvala

Co-founder & Executive
Chairman, UpGrad



The Practical Applications of DevOps has a Great & Promising Future.

But how?

Productivity matters the most in any organisation and this is how DevOp becomes extremely significant in it. A DevOp skilled person has an understanding of both engineering and coding.

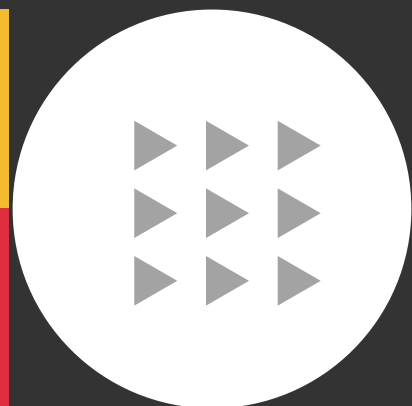
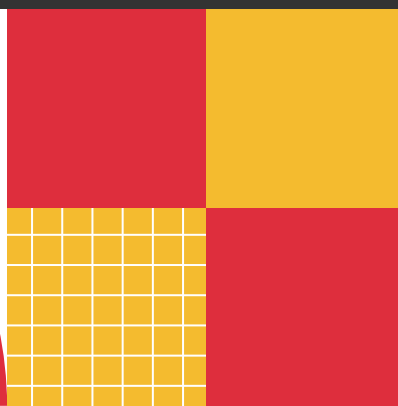
Developers are engineers who work with different departments to create and develop systems within an organisation.

DevOps engineers are multitaskers as they create as well as implement systems software and then analyze the data to improve the existing ones.

A combination of two words -Development and Operations, DevOps makes it possible for a single team to manage the complete life cycle of an application development starting from developing it to testing, deploying and monitoring. Ultimately a DevOp engineer decreases the duration of the system's development life cycle and simultaneously delivers new features, fixing the existing ones and updating them in close synchronization with the organisation's objectives.

Who should sign up for our certification course?

In the world of software development, one term you are sure to hear a lot of is DevOps Engineer. So if you're a student with an engineering, software/IT, Data or related background and wish to gain a foothold in DevOps, you must sign up for this course.



Why Become a DevOps Engineer?



Anyone Can Learn DevOps

People from different backgrounds can learn DevOps. Even a fresher with basic knowledge of Linux and one scripting language can learn DevOps.



Lucrative Salary

DevOps professionals are pretty highly paid across all geographies.



Easy To Get A Job

There is a lot of demand for DevOps professionals, but currently there are not enough people to meet the desired requirements for DevOps roles and responsibilities.



Fast Career Growth

Up-scaling yourself is a necessity, especially nowadays when technology is evolving at a rapid pace.



Exposure To Various Trending Tools and Technologies

DevOps involves various phases, and for each phase there are multiple tools available.



Become More Valuable To The Company

Most of the companies for cost optimization purpose are looking for people with a wide variety of skills.



Why opt for the course with upGrad Campus?



Excellent Faculties

Avail an opportunity to learn everything from industry leaders as well as world-class faculties.



Personalized Curriculum

Here, we will offer you the excellent skills you need to stroll through the world as a DevOps engineer. Our in-depth curriculum with additional content provides you end-to-end knowledge in contrast to knowledge of a few areas in DevOps.



Extensive Student Support

Strong hand grip assistance from dedicated students throughout the program. Live lectures or hangout sessions with subject matter experts, discussion forums, Q & A to resolve your queries and to reinforce learning.



Access To Employment

We assure you to provide a route to explore and apply for an entry-level position in DevOps. The project completed during the end of the period would be beneficial for the job resume.



Multifaceted Development

The objective of this program is to develop extremely multifaceted DevOps professionals with expertise in relevant tools languages. This includes acquiring and applying knowledge of technologies used by DevOps engineers on a regular basis- and understanding state-of-the-art algorithms and applications.



Getting Ready For The Job

Students will get an opportunity to explore case studies that give a real understanding of the challenges faced by renowned organizations in the tech space and can also be able to apply what they have during live lectures.

Benefits of the program



Excellent Networking & Learning Experience

Achieve concrete learning outcomes with our platform for networking & enjoy an excellent learning experience. Learn with peers by collaborating on projects.



Learn Skills from Industry Experts

Learn skills LIVE from industry experts on a 1-on-1 basis and get access to dedicated upGrad Mentors.



Personalized Assistance

Personalised subjective feedback on your submissions to help you improve.



Get Real-Life industry knowledge

Experience these technologies by applying to real-life industry projects, assignments & case studies.



Course structure

Recorded videos

World-class Lectures on major concepts, to be delivered on the Platform

Live Classes

Live sessions handled by Subject Matter Experts

TA sessions

Timely doubt resolution and hands-on guidance for projects and tools



Program curriculum

01 INTRODUCTION TO PYTHON

Topics covered

Scripting in Python

02 CONTAINERISATION

Topics covered

Containerisation at Scale - Week 1

Containerisation at Scale - Week 2

Continuous Monitoring and Logging - Week 1

Continuous Monitoring and Logging - Week 2

Introduction to CI/CD with Jenkins

Course Assignment

03 LINUX

Topics covered

Bash Scripting

OS Question

Networking

Scripting and Python

Linux and Scripting.

04 GET INTRODUCED TO DEVOPS

Executive PG Programme in Internet & Networking Basics

Linux and Scripting

PGD: Git and Version Control

Web Application On Cloud

AWS Services

Course Assignment

Executive PG Programme in Git and Version Control

05 CONTINUOUS INTEGRATION

Topics covered

System Provisioning and Configuration Management - 1

System Provisioning and Configuration Management - 2

Continuous Deployment - I

Continuous Deployment - II

Orchestration using Kubernetes - I

Orchestration using Kubernetes - II

Course Project

Program curriculum

06 PROJECT - 1

Deploying a microservice-architecture-based application, UPSTAC, to AWS.

07 PROJECT - 2

Delivering a VPC setup on AWS which includes public & private subnets (multi-AZ). Public subnets should be used for only exposing required services. This VPC should be managed via Terraform

08 CAPSTONE PROJECT

As part of the Capstone, you will be doing a POC around the setup of a Kubernetes cluster on the cloud and managing applications on Kubernetes. The POC will involve the following goals:

- Basic VPC setup for a Kubernetes cluster on AWS
- EKS cluster setup using eksctl
- Stateless & Stateful workload on Kubernetes
- Metrics system for Kubernetes
- Autoscaling nodes & workload on Kubernetes

09 INDUSTRY PROJECTS

Continuous Testing: Project revolving around continuous testing aspect of DevOps

Continuous Monitoring: Project revolving around continuous monitoring aspect of DevOps

Fully Automated Deployment : Project revolving around Fully automated deployment aspect of DevOps

CI/CD Pipeline: Project revolving around CI/CD aspect of DevOps

Placement and career support



Help polish your CV

How you introduce yourself to the industry will help you in your path. So an impressive resume is the way to go. With constructive feedback from industry experts, we will make sure your CV stands out.



Make you job ready

Mock interviews with industry experts will prepare you for employers in the real world.



Soft skill training

We will train you for group discussions and help you work on your presentation skills.



Get access to upGrad's exclusive job portal

Here you can increase your chances of landing an interview with a prospective employer by threefold.



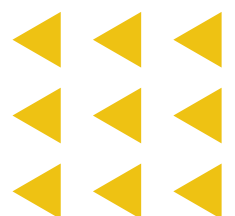
Help you understand what's best for you

Our experts will help you identify the best-suited career opportunities for you.



Job offers

You can secure a job after 3-6 months of enrollment with us through our hassle-free process.





Program details

Course starts: Please refer to the website for program start dates

Duration: 6 months

Fee structure: ₹25,000 ₹20,000

Program structure: 200+ Learning hours
Live sessions every weekend





Start upskilling today

For admissions contact
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upGrad
Campus