



# ADVANCED CERTIFICATION IN DEVOPS & CLOUD COMPUTING

Master DevOps and Cloud Computing Skills with Industry-Leading Experts



1,342+ learners



43% Average  
Salary Hike



Flexible Learning



98.22%  
Success Rate

# Why Irizpro Learning Solutions?

## Key Highlights

- > **Trusted by 1,342+ Learners:** Our learners have experienced an average of 43% salary growth in the cloud computing domain.
- > **Partnerships with Industry Leaders:** Get certified with training provided in collaboration with AWS, Microsoft, and Google.
- > **Hands-on Learning:** Engage in real-world projects, case studies, and capstone projects to gain practical experience.
- > **Expert Instructors:** Learn from experienced professionals and industry experts in the field of DevOps and Cloud Computing.
- > **24/7 Support:** Our dedicated team is available around the clock to assist you in your learning journey.

## Impactful Statistic

Join the **1342+** learners who have upskilled with us and achieved significant career growth in **DevOps and Cloud Computing!**



# Advanced DevOps & Cloud Computing Program

## About the Program

Gain expertise in DevOps, AWS, Microsoft Azure, and Google Cloud through our comprehensive certification program. Learn through interactive live sessions, self-paced learning modules, and real-world projects designed for professionals and beginners alike.

## Key Features



25+ Industry Projects  
& Case Studies



Dedicated Learning  
Management Team



140+ Hours of Live  
Sessions across  
6 months



Flexible Learning  
Options: Weekend  
classes available

## **Linux And Scripting**

Duration: 45-50 sessions  
Tools: Linux and Shell Scripting

## **Amazon Web Services (AWS)**

Duration: 50-55 sessions  
AWS Services: (EC2, LB, Autoscaling, SNS, EBS, EFS, S3, CloudWatch, CloudTrail, CloudFront, IAM, MFA, SSM, Lambda, Database, Route53, VPC)

## **Google Cloud Platform (GCP)**

Duration: 5 sessions  
GCP Services: (Compute Engine, Cloud Storage and Networking)

## **Microsoft Azure**

Duration: 5 sessions  
Azure Services: (Virtual Machines, Cloud Storage and Networking)

## **DevOps Tools**

Duration: 15-20 sessions  
Tools: (Docker, Git, Jenkins)

## **Total Duration**

Weekdays: 130-140 Days  
(1.5-2 hours per day)

**Overall Total: 200 hours**

## Introduction to Linux

Duration : 40-45 sessions

- Introduction to Windows & Linux OS.
- Key features and history of Windows and Linux.
- Difference Between Windows & Linux OS.
- Creation of Files & Folders in Windows & Linux.  
Steps to create, rename, and delete files and folders in Windows.  
Steps to create, rename, and delete files and folders in Linux (CLI using touch, mkdir, rm, etc.).
- Basic Commands in Linux  
Navigation: ls, cd, pwd.  
File handling: touch, cp, mv, rm.  
Viewing content: cat, less, head, tail.  
System info: uname, whoami, df -h, top.
- Flavors of Linux  
Overview of Linux distributions (Red hat, Ubuntu, CentOS, etc.)
- Features and Components of Linux OS
- Linux File System Hierarchy  
Explanation of /root, /home, /bin, /etc, /var, /tmp, /dev, /usr.  
Structure and purpose of each directory.
- Hard Links & Soft Links  
Explanation and difference between hard links and soft links.  
Commands: ln, ln -s.
- Tar Command  
Archiving files using tar.  
Compressing files using gzip/bzip2/xz with tar.  
Extracting archives.
- Package Management Tools: yum & rpm  
Introduction to package management in Linux.  
Using yum for installing, updating, and removing packages.  
Using rpm for package queries and verifications.
- Job Scheduling Using Cron  
What is Cron and its purpose?  
Syntax and usage of crontab.  
Scheduling examples (daily, weekly, monthly tasks).  
Managing and troubleshooting Cron jobs.
- File Management: cp & mv Commands  
Syntax and usage of cp (copy) and mv (move and rename).  
Recursive operations with directories.
- User Management  
Adding, deleting, and modifying users.  
Managing user groups.  
Understanding /etc/passwd, /etc/group, and /etc/shadow files.
- File Permissions  
Permissions (read, write, execute)  
Changing permissions with chmod.  
Changing ownership with chown and chgrp.
- Access Control List (ACL)  
Purpose of ACL in Linux.  
set, view, and modify ACL: setfacl, getfacl.
- Pattern Search Using grep
- File Searching and Filtering with find Command
- Word, Line, and Byte Count with wc Command



## Scripting

### Duration: 5 sessions

- Introduction to scripting
- Importance of Sha-bang
- Operators in Scripting

Arithmetic Operators: Addition, subtraction, multiplication, division.

Relational Operators: Equal to, not equal, greater than, less than.

Logical Operators: AND, OR, NOT.

Assignment Operator

- Introduction to Variables

Local Variables:  
Defining and using variables in scripts.

Environment Variables:  
System-level variables and their usage.

Special Variables:  
\$0, \$1, \$# , \$\* , \$@ , \$\$ , \$

- Conditional Statements in Scripting  
if, if-else, if-elif-else, nested if statements.
- Loops in Scripting  
For, Infinity, While, Until Loop

## Cloud Computing

- Introduction to Cloud Computing
- Characteristics of cloud
- Types of Cloud Services provided by cloud
- Difference between AWS, Azure & GCP

## Amazon Web Services

### 1. Elastic Compute Cloud (EC2)

- Elastic Cloud Computing.
- Introduction to Elastic Cloud Computing (EC2)
- Creation of windows & Linux server.
- Installation of Apache-httpd & IIS webserver
- Amazon machine image (AMI) & types of AMI
- Security groups & Key pairs.
- Bootstrap script
- Elastic Ip
- Importance of chkconfig command.
- Concept of zone & region in AWS.
- Types of instances.
- Various purchasing options available for an instances.

### 2. Load Balancer (LB)

- Introduction to load balancer (LB)
- Types of load balancers
- Concept of TCP & UDP
- OSI model
- Different strategies use in LB.
- Components of LB.
- Parameter in Health check of instances.
- Use of application LB with header.

## 3. Autoscaling

- Introduction to Auto Scaling
- Steps in Auto Scaling
- Components of Auto Scaling

## 4. Simple Notification Service

- Introduction to SNS
- Creation of topic in SNS
- Adding Subscription in SNS

## 5. Elastic Block Storage

- Introduction to EBS
- SAN (storage area network) technology
- Types of volume
- Advantages & Disadvantages of EBS
- Adding extra volume to windows & Linux servers

## 6. Elastic File System

- Introduction to EFS
- Advantages & Disadvantages of EFS
- Difference between EBS & EFS
- Syncing directories of different servers

## 7. Simple Notification Service

- Introduction to S3
- Concept of Bucket & Object in S3 Versioning in S3
- Use of delete marker
- Cross region replication in S3
- Advantages & Disadvantages of S3
- Difference between EBS, EFS & S3
- Website hosting in S3
- Storage classes of objects in S3
- Life cycle management of object in S3

## 8. Relational Database Service

- Introduction to RDS
- Examples of RDS
- Creation & connecting of MySQL Database
- Various queries in MySQL Database
- Use of Where Clause
- Understanding of various functions
- Use of various operators
- Creation & Deletion of users in MySQL
- Taking Backup of MySQL Database
- Restoring of MySQL Database

## 9. DynamoDB

- Introduction to DynamoDB Database
- Difference between MySQL & DynamoDB
- Creation table in DynamoDB

## 10. Virtual Private Cloud

- Introduction to VPC
- Concept of subnet & types of subnet
- Concept of Internet Gateway & Nat Gateway
- Concept of Route Table & types of Route table in VPC
- Concept of VPC Peering & non transitive peering Importance of CIDR.
- Understanding of NACL.
- Difference between NACL & SG

## 11. CloudWatch

- Introduction to CloudWatch
- Creation of events
- Creation of Alarms

## 12. CloudTrail

- Introduction to CloudTrail.
- Difference between CloudWatch & CloudTrail.

## 13. Identity & Access Management

- Introduction To IAM
- Types of users in AWS
- User & Group creation & deletion
- Types of policies
- Giving policies to user & group
- Concept of Role

## 14. Multi Factor Authentication

- Introduction to MFA.
- Overview of Multi-Factor Authentication (MFA) as an extra layer of security. Importance of MFA in enhancing account and resource protection.
- Configuring a virtual MFA device with an authenticator app.
- Configuring MFA for root accounts and IAM users.

## 15. CloudFront

- Introduction to CloudFront
- Concept of Edge location & Regional Edge location
- Concept of TTL (Time To Live)
- Importance of Invalidation request
- Creation of CDN Distribution

## 16. Route 53

- Introduction to Route 53.
- Concept of DNS (Domain Name System)
- Functions
- Types of top-level domain in AWS
- Concept of hosted zone.
- Types of DNS records.
- Different Routing policies.

## 17. Systems Manager

- Introduction to AWS Systems Manager (SSM).
- Installing and configuring the SSM agent.
- Enabling Systems Manager on EC2 instances.
- Configuring IAM roles and policies for SSM.
- Executing commands using the Run Command feature.

## 18. AWS Lambda

- Introduction to AWS Lambda.
- Overview of AWS Lambda as a serverless compute service.
- Integration with other AWS services (e.g., S3, DynamoDB).
- Creating a Lambda function using the AWS Management Console.
- Triggering Lambda functions from S3.



## Introduction to DevOps

Duration : 15-20 sessions

### Docker

- Introduction to Docker
- Concept of virtualization overview of Docker.
- Benefits of using Docker
- Differences between virtual machines and containers
- Docker images and Docker containers
- Installation of Docker
- Basic Docker Commands (docker version, docker info, docker run, docker ps docker stop, docker start, docker restart).
- Docker Volume
- Components of Dockerfile
- Docker Compose

### Jenkins

- Introduction to Jenkins.
- Concept of SDLC
- Understanding of CI/CD
- Installing and Configuring Jenkins.
- Managing Jenkins Jobs.
- Analyzing build results and troubleshooting errors.
- Managing Jenkins security (user roles and permissions).
- Configuring triggers (poll SCM, webhooks).  
Master-Slave Architecture in Jenkins
- Jenkins Pipeline

### Git

- Introduction & Installation of Git.
- Git commands: git add, git commit, git status, git log.
- Understanding the Git workflow (Working Directory, Staging Area, Repository).
- Introduction to remote repositories.
- Connecting to remote repositories (git remote, git clone).
- Fetching and pulling changes (git fetch, git pull). Pushing changes to a remote repository (git push)
- Advanced Git Topics
- Stashing changes (git stash).
- Tagging commits (git tag).
- git reset command
- Overview of branching strategies
- Creating and managing branches (git branch, git checkout, git switch).
- Merging branches and resolving conflicts.

## Microsoft Azure

Duration - 5 sessions

- Azure Virtual Machines (VMs): Infrastructure as a Service (IaaS) for hosting applications.
- Azure Load Balancer: Traffic distribution for high availability.
- Azure Blob Storage: Object storage for unstructured data.
- Azure SQL Database: Managed relational database service.

## Google Cloud Platform

Duration - 5 sessions

- Compute Engine: Virtual machines for flexible compute options.
- Cloud Load Balancing: Distribute traffic across multiple resources.
- Cloud Storage: Scalable object storage for unstructured data

## Modules Covered

1 Preparatory Sessions | Introduction to  Linux

2 Cloud Foundations |  |  Azure | 

3 DevOps Essentials |  |  git | 

4 Real-world Projects | Apply your skills in practical scenarios



**Certified by the  
Best in the  
Industry**

## Partnerships



**Gain insights into AWS cloud services and architecture.**



**Learn from the experts in Azure cloud computing.**



**Master Google Cloud services with hands-on projects.**

## Benefit

Our partnerships ensure you learn from up-to-date, industry-relevant materials, making you job-ready in today's competitive market.



# Transform Your Career with Irizpro Learning Solutions

## Learner Testimonials

“

**Nikhil YN**

"From Junior GCP Engineer to Senior Cloud Engineer with a 43% salary hike!"



”

“

**Anil Sharma**

"Transitioned from Customer Service Associate to Cloud Architect Associate with the skills gained from Irizpro!"



”

# Join a Growing Network of Cloud Computing Professionals

## Highlights



**1,342+ learners**  
from various industries, including  
IT, BFSI, Telecom, and Healthcare



Networking opportunities with  
peers and professionals in the field.



Access to exclusive  
webinars and events

Join us on **Whatsapp**



<https://chat.whatsapp.com/H8R29p8mbRdEMiQrguvrdp>



# Certification & Career Assistance

## Certification

Upon completion, receive an industry-recognized certification, backed by our partnerships with



## Career **Support**



**Interview Preparation:** Mock interviews and guidance




**Resume Building:** Tailored to cloud computing roles



**Job Assistance:** Connect with top hiring partners





# Placement Process & Terms and Conditions

## Placement Policy Details


- **Performance Requirement:** Candidates must score more than 80% in the simulation exam conducted by Irizpro Learning Solutions.
- **Attendance:** Candidates must maintain a minimum attendance of 85% throughout the course to be eligible for the placement program.
- **Mock Interview:** Candidates are required to attend all scheduled mock interviews and successfully clear the final mock interview to qualify for the placement process.

## Our Success Rate

**We have an impressive pass rate of 98.22% and are partnered with AWS, Microsoft, and Google to train cloud computing professionals**

## Conclusion

If a candidate does not meet the above criteria, they will not be eligible for the placement program.



Take the Next  
Step in Your  
Career!

## 3-Step Enrollment Process

1

### Submit Your Application

Fill in your details and career goals.



2

### Interview & Assessment

Meet with our experts to discuss your goals.



3

### Start Learning

Begin your journey with live sessions and self-paced modules.



# Ready to Start? **Get in Touch!**



Join the **1,342** learners who have transformed their careers  
with Irizpro Learning Solutions!"

## Contact **Information:**

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**Job Assistance:** Connect with top hiring partners