

LIVE COURSE

Cloud Computing & DevOps

Live, mentor-led course on AWS cloud fundamentals, Linux, Docker, Kubernetes, CI/CD and Terraform. Build and deploy real projects and become ready for cloud and DevOps engineer roles.

Industry-Led Course

Batch details updating soon

Technical



DURATION

4 Months

LEVEL

Beginner to Advanced

MODE

Live Online

LANGUAGE

English

BATCH STARTS

To be announced

ENROLMENT CLOSES

Open

COURSE FEE

Starting from

₹9,999

3 plans - compare them in Plans & pricing



LIVE COURSE BROCHURE

Inside this brochure

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01 · AT A GLANCE



Course Overview

Live, mentor-led course on AWS cloud fundamentals, Linux, Docker, Kubernetes, CI/CD and Terraform. Build and deploy real projects and become ready for cloud and DevOps engineer roles.

This live, mentor-led course covers cloud fundamentals, Linux, Git, Docker, Kubernetes, CI/CD pipelines, Terraform and monitoring on AWS. You learn through guided labs, weekly assignments and nine deployment projects, finishing with a job-ready portfolio and the confidence to apply for DevOps and cloud roles.



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Open

RATING

5.0 / 5

LEARNERS

Trusted by ambitious learners nationwide

COURSE FEE

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Highlights

Industry-Led Upskilling Courses

Learn from industry professionals with years of real-world experience.

Personalized Mentorship

Get one-on-one guidance tailored to your career goals and aspirations.

Premium Resources

Access course materials, job portal, free events, challenges and learner 8C Appraisal reports.

Vibrant Community

Connect with like-minded peers and build lasting professional relationships.

**02 · SIMPLE 3-STEP JOURNEY**

How Our Courses Work

A structured, step-by-step path designed to take you from foundational learning to career success with industry guidance.

01**Step 1: Enroll & Get Started**

Choose your course and complete the enrollment process. Access your learning materials instantly and join our community of learners.

✓ Instant access to course materials

✓ Personalized learning dashboard

✓ Welcome orientation session

02**Step 2: Learn & Practice**

Engage with interactive lessons, live sessions, and hands-on projects. Learn from industry experts and apply your knowledge in real-world scenarios.

✓ Live classes with expert instructors

✓ Hands-on practical projects

✓ One-on-one mentorship support

03**Step 3: Complete & Get Certified**

Finish your coursework, pass assessments, and receive your professional certificate. Launch your new career with confidence and credentials.

✓ Industry-recognized certificate

✓ Portfolio of completed projects

✓ Career placement assistance

03 · BEFORE YOU ENROLL



Eligibility & Prerequisites

Check who this course is designed for and what you should know before your first class.

WHO CAN JOIN**Eligibility**

- ✓ Students from any engineering or science degree stream
- ✓ Fresh graduates seeking cloud or DevOps roles
- ✓ Working professionals in IT support or development who want to upskill
- ✓ Career switchers with basic computer knowledge and strong motivation

BEFORE YOU START**Prerequisites**

- ✓ Basic computer and internet usage
- ✓ Familiarity with any programming language is helpful
- ✓ Willingness to practise in the command line
- ✓ A laptop with at least 8 GB RAM and a stable internet connection

04 · CAREER-READY SKILLS



Skills You Will Gain

Hands-on skills you will practise in live classes, assignments and projects throughout the course.

AWS

Linux

Shell Scripting

Git

GitHub

Docker

Kubernetes

Jenkins

GitHub Actions

CI/CD

Terraform

Ansible

Prometheus

Grafana

Networking Basics

Cloud Security

05 · PRODUCT ECOSYSTEM ARCHITECTURE



How we designed our Product?

An all-in-one ed-tech ecosystem carefully engineered to bridge learning, practical skill assessment, career guidance, and employment.

WORLD'S FIRST FEATURE

8C Appraisal Report

Proprietary evaluation matrix measuring holistic performance across 8 career pillars for authentic proof-of-work.

Communication

Configuration

Chronicle

Completeness

Cognizance

Conception

Comprehension

Case Study

Industry Validated · 100% Data Score

SUBJECT MATTER EXPERT AI

Insyrio AI

Get instant 24/7 doubt solving and concept clarifications directly from our specialized AI trained on your enrolled courses.

- ✓ 24/7 Course-Specific SME Assistant
- ✓ Instant Step-by-Step Doubt Resolution

Instant Learning Support

GAMIFIED REWARDS

iSure Coins

Use iSure Coins for AI career tools, masterclasses and CertiQ - and part-pay your course fee with them.

- ✓ Earn Perks & Rewards · Pay with Coins

Redeem Rewards Store

AI ENGINE

AI Career Diagnosis

Algorithmic analysis mapping strengths, gaps, and tailored pathways for industry roles.

- ✓ Skill Gap Mapping

Personalized Roadmap

CURRICULUM

Industry-Led Courses

Handcrafted learning modules built directly alongside senior engineering, design, and management leads.

Practical Frameworks

LIVE

Live Classes

Interactive classrooms with live chat, code walk-throughs, and real-time engagement.

Real-time Q&A Support

AUTO-SCAN

AI Resume ATS

Instant ATS optimization scanner ensuring your resume passes screening software effortlessly.

High Parser Score

PRACTICAL

Assignments

Industry-grade project briefs with detailed feedback and grading from experienced mentors.

Code & Work Reviews

WEEKLY

Challenges

Weekly hackathons, coding sprints, and design contests to test your problem-solving skills.

Leaderboard Ranking

NETWORKING

Events

Exclusive expert keynotes, career fairs, and interactive networking workshops.

Free Community Pass

1-ON-1

Live Mentorship

Direct one-on-one video guidance sessions with experienced industry practitioners.

Personalized Growth

TRACKING

Attendance

Class-by-class attendance tracking to ensure disciplined, consistent progression.

Attendance Reports

HIRING

Jobs

Direct hiring pipeline connecting top-performing learners directly with recruiter managers.

Exclusive Placements

FREE ACCESS

Free Books

Curated digital library filled with essential tech, management, and soft-skill books.

Instant Digital Library

ARTICLES

Blog

In-depth technical tutorials, industry trend analysis, and career growth strategies.

Updated Weekly

FREE ACCESS

Free Study Material

Downloadable cheat sheets, interview preparation guides, templates, and revision notes.

One-Click Downloads

06 · COURSE CURRICULUM



What You Will Learn

A carefully sequenced curriculum - every section breaks into modules and hands-on topics taught live by industry experts.

6

SECTIONS

30

MODULES

180

TOPICS

9

PROJECTS

01

SECTION 1

Cloud Fundamentals and Linux Essentials

This section builds the foundation of cloud computing concepts and hands-on Linux command line skills that every DevOps engineer relies on.

5 modules · 30 topics

M1.1 Introduction to Cloud Computing · 6 topics

Learners understand what the cloud is, why organizations adopt it, and how its core models work.

1

What Is Cloud Computing

Explore the definition of cloud computing and how it differs from traditional on-premises infrastructure. Review real examples of companies that moved to the cloud.

CLOUD BASICS

INFRASTRUCTURE CONCEPTS

2

Service Models IaaS PaaS and SaaS

Compare the three main service models and the responsibilities that belong to the provider and the customer. Match common products to each model.

IAAS

PAAS

SAAS

3

Deployment Models Public Private and Hybrid

Learn when organizations choose public, private, hybrid, or multi-cloud strategies. Discuss tradeoffs in cost, control, and compliance.

HYBRID CLOUD

MULTI-CLOUD

CLOUD STRATEGY

4

Cloud Economics and Pricing

Understand pay-as-you-go pricing, reserved capacity, and total cost of ownership. Estimate the cost of a small workload.

CLOUD PRICING

TCO

COST ESTIMATION

5

Major Cloud Providers Overview

Tour AWS, Microsoft Azure, and Google Cloud and see how their core services compare. Create a free tier account for upcoming labs.

AWS

AZURE

GOOGLE CLOUD

6

Shared Responsibility and Cloud Security Basics

Learn the shared responsibility model and basic security practices such as least privilege and multi-factor authentication.

SHARED RESPONSIBILITY

IAM BASICS

CLOUD SECURITY

M1.2

Core Cloud Infrastructure Services · 6 topics

Learners get acquainted with the building blocks of compute, storage, and networking in the cloud.

1

Virtual Machines and Compute Instances

Launch and connect to a virtual machine while learning about instance types and sizing. Understand how images and regions affect deployments.

VIRTUAL MACHINES

EC2

INSTANCE SIZING

2

Cloud Storage Types

Compare object, block, and file storage and their typical use cases. Create a storage bucket and upload files.

OBJECT STORAGE

BLOCK STORAGE

FILE STORAGE

3

Virtual Networks and Subnets

Learn how virtual private clouds, subnets, and IP ranges are designed. Build a simple network layout.

VPC

SUBNETS

CIDR

4

Security Groups and Firewalls

Control inbound and outbound traffic using security groups and network access rules. Troubleshoot a blocked connection.

SECURITY GROUPS

FIREWALL RULES

TROUBLESHOOTING

5

Load Balancing and Auto Scaling

Distribute traffic across servers and scale capacity automatically as demand changes. Observe scaling behavior in a demo.

LOAD BALANCER

AUTO SCALING

HIGH AVAILABILITY

6 Cloud Databases and Managed Services

Explore managed relational and NoSQL databases and the benefits of offloading maintenance. Provision a small database instance.

RDS

NOSQL

MANAGED SERVICES

M1.3 Linux Basics and the Command Line · 6 topics

Learners gain confidence navigating Linux systems and working in the terminal.

1 Linux Overview and Distributions

Learn the history of Linux and how distributions such as Ubuntu and CentOS differ. Set up a Linux environment for practice.

LINUX BASICS

UBUNTU

ENVIRONMENT SETUP

2 Navigating the File System

Move through directories and understand the Linux file system hierarchy. Practice with `pwd`, `ls`, and `cd`.

FILE SYSTEM

NAVIGATION

TERMINAL

3 Working with Files and Directories

Create, copy, move, and delete files and folders from the command line. Use wildcards to work efficiently.

CP AND MV

MKDIR

WILDCARDS

4 Viewing and Searching Text

Read file contents with `cat`, `less`, `head`, and `tail`, and search using `grep` and `find`. Apply these tools to log files.

GREP

FIND

LOG READING

5 Pipes and Redirection

Combine commands with pipes and redirect input and output to files. Build short command chains to process data.

PIPES

REDIRECTION

COMMAND CHAINING

6 Text Editing with Nano and Vim

Edit configuration files directly in the terminal using `nano` and the basics of `vim`. Learn essential shortcuts.

VIM

NANO

CONFIG EDITING

M1.4 Linux Administration Essentials · 6 topics

Learners manage users, permissions, processes, and software on Linux servers.

1 Users and Groups

Create and manage user accounts and groups and understand the role of the root user. Use sudo safely.

USER MANAGEMENT

GROUPS

SUDO

2 File Permissions and Ownership

Read and change permissions with chmod and chown using symbolic and numeric modes. Apply secure defaults.

CHMOD

CHOWN

PERMISSIONS

3 Package Management

Install, update, and remove software using apt and yum. Learn how repositories work.

APT

YUM

REPOSITORIES

4 Processes and Resource Monitoring

View and control running processes and monitor CPU and memory use with top, ps, and kill. Identify a runaway process.

PROCESS MANAGEMENT

TOP

MONITORING

5 Services and Systemd

Start, stop, enable, and inspect services using systemctl. Read service logs with journalctl.

SYSTEMCTL

JOURNALCTL

SERVICES

6 Disk Management and Archiving

Check disk usage, mount storage, and create compressed archives with tar. Plan simple backups.

DISK USAGE

TAR

MOUNTING

M1.5 Networking and Shell Scripting Foundations · 6 topics

Learners connect to remote servers, understand networking basics, and automate tasks with shell scripts.

1 Networking Fundamentals for Cloud Engineers

Understand IP addressing, DNS, ports, and common protocols such as HTTP and SSH. Relate them to cloud architectures.

TCP/IP

DNS

PORTS

2 Remote Access with SSH

Connect securely to cloud servers using SSH keys and transfer files with scp. Configure a simple SSH config file.

SSH

KEY PAIRS

SCP

3

Network Troubleshooting Tools

Diagnose connectivity issues using ping, curl, netstat, and traceroute. Follow a structured troubleshooting approach.

CURL

PING

DIAGNOSTICS

4

Introduction to Bash Scripting

Write first scripts using variables, input, and basic commands. Make scripts executable and run them.

BASH

VARIABLES

SCRIPT EXECUTION

5

Conditionals and Loops in Bash

Add decision making and repetition to scripts with if statements and for and while loops. Automate a repetitive task.

CONDITIONALS

LOOPS

AUTOMATION

6

Scheduling Tasks and Section Project

Schedule scripts with cron and combine skills from the section in a small project that provisions and configures a cloud server.

CRON

AUTOMATION

PROJECT WORK

02

SECTION 2

Version Control and Scripting Automation

Learners master Git-based collaboration and Bash and Python scripting to automate everyday infrastructure and development tasks.

5 modules · 30 topics

M2.1

Git Fundamentals · 6 topics

This module introduces the core concepts and daily commands of Git for tracking changes in code and configuration files.

1

Version Control Concepts and Git Setup

Understand why version control matters and how distributed systems work. Install Git and configure identity and editor settings.

GIT INSTALLATION

VERSION CONTROL

CONFIGURATION

2

Repositories, Staging and Commits

Initialize repositories and move changes through the working directory, staging area and commit history. Practice writing clear commit messages.

GIT INIT

GIT ADD

COMMIT MESSAGES

3

Inspecting History and Differences

Use log, diff and show to explore how a project evolved over time. Filter history by author, date and file.

GIT LOG

GIT DIFF

HISTORY ANALYSIS

4

Ignoring Files and Managing Project Hygiene

Write gitignore rules and keep secrets and build artifacts out of repositories. Learn conventions for clean and maintainable repos.

GITIGNORE

SECRETS HYGIENE

REPO STRUCTURE

5

Undoing Changes Safely

Use restore, reset and revert to correct mistakes at different stages of the workflow. Compare the risks of each approach.

GIT RESET

GIT REVERT

RECOVERY

6

Tags and Release Versioning

Mark milestones with lightweight and annotated tags. Apply semantic versioning to software releases.

GIT TAGS

SEMANTIC VERSIONING

RELEASES

M2.2

Branching and Collaboration Workflows · 6 topics

This module covers how teams work in parallel using branches, merges and review processes.

1

Creating and Switching Branches

Create feature branches and move between them without losing work. Understand how branch pointers work internally.

GIT BRANCH

GIT SWITCH

FEATURE BRANCHES

2

Merging and Resolving Conflicts

Perform fast-forward and three-way merges and resolve conflicting changes by hand. Use merge tools to confirm correct results.

GIT MERGE

CONFLICT RESOLUTION

MERGE TOOLS

3

Rebasing and Clean History

Rebase branches and squash commits to keep history linear and readable. Learn when rebasing is unsafe.

GIT REBASE

SQUASH

INTERACTIVE REBASE

4

Working with Remotes

Clone, fetch, pull and push against remote repositories. Track upstream branches and keep local copies in sync.

GIT CLONE

GIT PUSH

REMOTES

5 Pull Requests and Code Review

Open pull requests and give and receive constructive review feedback. Use protected branches and required checks.

[PULL REQUESTS](#)
[CODE REVIEW](#)
[BRANCH PROTECTION](#)

6 Team Branching Strategies

Compare Git Flow, GitHub Flow and trunk-based development. Choose a strategy that fits team size and release cadence.

[GIT FLOW](#)
[TRUNK-BASED](#)
[WORKFLOW DESIGN](#)

M2.3 Bash Scripting Essentials · 6 topics

This module builds practical shell scripting skills for automating repetitive command-line work.

1 Shell Script Basics

Write the first script with a shebang line and set execute permissions. Run scripts and understand exit codes.

[SHEBANG](#)
[PERMISSIONS](#)
[EXIT CODES](#)

2 Variables, Input and Arguments

Use variables, command substitution, user prompts and positional parameters. Quote values correctly to avoid common bugs.

[VARIABLES](#)
[ARGUMENTS](#)
[QUOTING](#)

3 Conditionals and Test Expressions

Control script flow with if statements, case blocks and file and string tests. Combine conditions with logical operators.

[IF STATEMENTS](#)
[CASE](#)
[TEST OPERATORS](#)

4 Loops and Iteration

Process lists, files and command output with for and while loops. Handle line-by-line input reliably.

[FOR LOOPS](#)
[WHILE LOOPS](#)
[ITERATION](#)

5 Functions and Reusable Scripts

Organize logic into functions and source shared libraries. Return values and manage variable scope.

[FUNCTIONS](#)
[SCOPE](#)
[CODE REUSE](#)

6 Error Handling and Debugging Bash

Use set options, traps and logging to build robust scripts. Debug with trace mode and ShellCheck.

[SET -E -UO PIPEFAIL](#)
[TRAP](#)
[SHELLCHECK](#)

M2.4 Text Processing and Task Scheduling · 6 topics

This module teaches tools that transform data and run automation on a schedule.

1 Pipes and Redirection in Practice

Chain commands with pipes and redirect standard streams to files. Build useful one-line data pipelines.

PIPES **REDIRECTION** **STDOUT AND STDERR**

2 Searching with grep and Regular Expressions

Match patterns in logs and configuration files using grep and regex syntax. Extract exactly the lines that matter.

GREP **REGEX** **LOG SEARCHING**

3 Transforming Text with sed and awk

Edit streams with sed substitutions and summarize columnar data with awk. Apply both tools to real log files.

SED **AWK** **TEXT TRANSFORMATION**

4 Working with JSON and YAML on the Command Line

Parse and modify structured data using jq and yq. Prepare for reading cloud API output and configuration files.

JQ **YQ** **STRUCTURED DATA**

5 Scheduling with Cron and Systemd Timers

Schedule recurring jobs using crontab syntax and systemd timers. Capture output and handle failures.

CRON **SYSTEMD TIMERS** **JOB SCHEDULING**

6 Automating Backups and Log Rotation

Build a script that archives data and rotates old logs. Schedule it and verify the results.

BACKUPS **LOG ROTATION** **TAR**

M2.5 Python Automation for DevOps · 6 topics

This module applies Python to infrastructure tasks that outgrow shell scripts.

1 Python Environment and Virtual Environments

Set up Python and isolate project dependencies with venv and pip. Manage requirements files for repeatable setups.

VENV **PIP** **DEPENDENCIES**

2 Python Syntax for Automation

Review data types, control flow and functions with a focus on operational scripts. Write small utilities for daily tasks.

PYTHON BASICS **FUNCTIONS** **DATA TYPES**

3 File System and Process Automation

Use os, pathlib and subprocess to manage files and run system commands. Capture output and handle errors.

PATHLIB

SUBPROCESS

FILE HANDLING

4 Calling REST APIs with Requests

Send authenticated HTTP requests and parse JSON responses. Handle status codes, retries and timeouts.

REST APIS

REQUESTS

JSON PARSING

5 Automating Cloud Resources with Python SDKs

Use a cloud provider SDK to list, create and tag resources programmatically. Apply least-privilege credentials.

CLOUD SDK

BOTO3

CREDENTIALS

6 Building a Command-Line Automation Tool

Package a script as a CLI tool using argparse and logging. Add tests and publish the code to a Git repository.

ARGPARSE

LOGGING

TESTING

03

SECTION 3

AWS Core Services and Networking

Learners gain hands-on experience with the foundational AWS compute, storage, database, and networking services needed to design and run secure cloud environments.

5 modules · 30 topics

M3.1 AWS Account Setup and Identity Management · 6 topics

This module covers how to set up and secure an AWS account and control access using identity and permission tools.

1 AWS Global Infrastructure and Console Tour

Explore regions, availability zones, and edge locations while navigating the AWS Management Console. Learners practice choosing regions based on latency, cost, and compliance.

AWS REGIONS

AVAILABILITY ZONES

CONSOLE NAVIGATION

2 Creating and Securing an AWS Account

Set up a new account with root user protection and multi-factor authentication. Learners configure billing alerts and budgets to avoid surprise charges.

ACCOUNT SECURITY

MFA

BUDGETS

3

IAM Users, Groups, and Roles

Learn how IAM identities are created and organized for least-privilege access. Learners build users, groups, and roles for common team scenarios.

IAM

LEAST PRIVILEGE

ROLES

4

IAM Policies and Permission Boundaries

Read and write JSON policies that allow or deny actions on resources. Learners test policies using the IAM policy simulator.

JSON POLICIES

PERMISSIONS

POLICY SIMULATOR

5

AWS CLI and SDK Access

Configure the AWS CLI with named profiles and access keys or temporary credentials. Learners run basic commands and a short SDK script to manage resources.

AWS CLI

CREDENTIALS

BOTO3

6

Shared Responsibility and Governance Basics

Understand which security tasks belong to AWS and which belong to the customer. Learners review CloudTrail logs and tagging strategies for governance.

SHARED RESPONSIBILITY

CLOUDTRAIL

TAGGING

M3.2

Compute with EC2 and Serverless · 6 topics

This module introduces virtual servers and serverless options for running applications on AWS.

1

Launching EC2 Instances

Choose instance types, AMIs, and key pairs to launch a virtual server. Learners connect over SSH and verify the running instance.

EC2

AMI

SSH

2

Instance Storage and EBS Volumes

Attach, format, and snapshot EBS volumes for persistent storage. Learners compare EBS with instance store and restore from a snapshot.

EBS

SNAPSHOTS

PERSISTENT STORAGE

3

EC2 Pricing Models and Cost Optimization

Compare on-demand, reserved, spot, and savings plan options. Learners estimate costs for sample workloads using the pricing calculator.

SPOT INSTANCES

SAVINGS PLANS

COST ESTIMATION

4

Load Balancing and Auto Scaling

Distribute traffic with an Application Load Balancer and scale instances automatically. Learners configure scaling policies based on CPU metrics.

ALB

AUTO SCALING

HIGH AVAILABILITY

5

AWS Lambda and Event-Driven Functions

Build serverless functions triggered by events such as file uploads or schedules. Learners deploy a Lambda function and review its logs.

LAMBDA

SERVERLESS

EVENT TRIGGERS

6

Containers on AWS with ECR and ECS

Push a container image to a registry and run it as a managed service. Learners understand task definitions and basic service deployment.

ECR

ECS

CONTAINERS

M3.3

Storage and Databases · 6 topics

This module explores AWS options for storing objects, files, and structured data.

1

Amazon S3 Buckets and Objects

Create buckets, upload objects, and organize data with prefixes. Learners explore storage classes and durability guarantees.

S3

STORAGE CLASSES

OBJECT STORAGE

2

S3 Security, Versioning, and Lifecycle Rules

Protect data with bucket policies, encryption, and versioning. Learners set lifecycle rules to move or expire older objects.

BUCKET POLICIES

ENCRYPTION

LIFECYCLE

3

Static Website Hosting with S3 and CloudFront

Host a static site from S3 and speed up delivery through a CDN. Learners configure caching and HTTPS for the site.

CLOUDFRONT

STATIC HOSTING

CDN

4

Relational Databases with Amazon RDS

Launch a managed database and configure backups and multi-AZ deployment. Learners connect to the database from an EC2 instance.

RDS

MULTI-AZ

BACKUPS

5

NoSQL with DynamoDB

Model data with tables, partition keys, and indexes. Learners perform basic read and write operations and understand capacity modes.

DYNAMODB

DATA MODELING

NOSQL

6

File Storage and Data Transfer Options

Compare EFS and FSx for shared file systems and review tools for moving data into AWS. Learners choose the right storage service for given use cases.

EFS

DATA TRANSFER

STORAGE SELECTION

M3.4

VPC Networking Fundamentals · 6 topics

This module teaches how to design and build isolated, well-structured networks in AWS.

1

VPC Design and CIDR Planning

Plan IP address ranges and create a custom VPC. Learners practice subnetting and avoiding overlapping CIDR blocks.

VPC

CIDR

SUBNETTING

2

Public and Private Subnets with Route Tables

Build subnets across availability zones and control traffic paths using route tables. Learners decide which resources belong in each subnet type.

SUBNETS

ROUTE TABLES

NETWORK DESIGN

3

Internet Gateways and NAT Gateways

Give public resources internet access and let private resources reach out safely. Learners test connectivity from both subnet types.

INTERNET GATEWAY

NAT GATEWAY

CONNECTIVITY

4

Security Groups and Network ACLs

Compare stateful and stateless traffic filtering at the instance and subnet levels. Learners write rules and troubleshoot blocked connections.

SECURITY GROUPS

NACLs

TROUBLESHOOTING

5

VPC Peering and Transit Connectivity

Connect separate VPCs using peering and learn when a transit gateway fits better. Learners configure routes between two VPCs.

VPC PEERING

TRANSIT GATEWAY

ROUTING

6

Bastion Hosts and Secure Remote Access

Reach private instances through a bastion host or Session Manager. Learners compare approaches and apply secure access practices.

BASTION HOST

SESSION MANAGER

SECURE ACCESS

M3.5

DNS, Monitoring, and Resilient Architecture · 6 topics

This module combines traffic routing, observability, and design practices that keep AWS workloads reliable.

1

DNS with Route 53

Register domains and create hosted zones with common record types. Learners point a domain name to a load balancer or website.

ROUTE 53

DNS RECORDS

DOMAINS

2

Routing Policies and Health Checks

Use weighted, latency-based, and failover routing to direct users. Learners configure health checks to trigger automatic failover.

FAILOVER

HEALTH CHECKS

TRAFFIC ROUTING

3

Monitoring with CloudWatch Metrics and Logs

Collect metrics and logs from AWS resources and view them on dashboards. Learners create custom metrics and log filters.

CLOUDWATCH

METRICS

LOG ANALYSIS

4

Alarms and Notifications with SNS

Set alarms on key metrics and send alerts through email or messaging topics. Learners build a simple alerting workflow for an EC2 instance.

CLOUDWATCH ALARMS

SNS

ALERTING

5

Well-Architected Framework Principles

Review the pillars of reliability, security, performance, cost, and operational excellence. Learners assess a sample architecture against these pillars.

WELL-ARCHITECTED

ARCHITECTURE REVIEW

BEST PRACTICES

6

Capstone Lab: Building a Highly Available Web Tier

Combine VPC, EC2, load balancing, a database, and monitoring into one working deployment. Learners present the design and explain their choices.

HIGH AVAILABILITY

HANDS-ON LAB

SOLUTION DESIGN

04

SECTION 4

Containers with Docker and Kubernetes

Learners package applications into containers and then deploy, scale and operate them on Kubernetes clusters using production-style practices.

5 modules · 30 topics

M4.1 Container Fundamentals · 6 topics

Learners understand what containers are and how they differ from virtual machines while running their first containers.

1 Containers versus Virtual Machines

Compare container and VM architectures and learn when each is the right choice. Explore namespaces and cgroups at a conceptual level.

[CONTAINERIZATION](#)[NAMESPACES](#)[CGROUPS](#)

2 Installing Docker and Running Containers

Set up Docker on a workstation and run containers from public images. Practice starting, stopping and removing containers.

[DOCKER CLI](#)[CONTAINER LIFECYCLE](#)[SETUP](#)

3 Working with Images and Registries

Pull, tag and push images using Docker Hub and Amazon ECR. Learn how image layers and tags work.

[DOCKER HUB](#)[AMAZON ECR](#)[IMAGE TAGGING](#)

4 Inspecting and Debugging Containers

Use logs, exec, inspect and stats to diagnose a misbehaving container. Learn common exit codes and their meanings.

[DOCKER LOGS](#)[TROUBLESHOOTING](#)[EXEC](#)

5 Container Networking Basics

Understand bridge, host and none networks and how published ports work. Connect containers to each other by name.

[DOCKER NETWORKS](#)[PORT MAPPING](#)[DNS](#)

6 Persisting Data with Volumes and Bind Mounts

Keep data beyond the container lifecycle using volumes and bind mounts. Compare storage options and backup approaches.

[VOLUMES](#)[BIND MOUNTS](#)[DATA PERSISTENCE](#)

M4.2 Building Production-Ready Images · 6 topics

Learners write efficient and secure Dockerfiles and orchestrate multi-container applications locally.

1 Writing Your First Dockerfile

Learn core instructions such as FROM, COPY, RUN, CMD and ENTRYPOINT. Containerize a simple web application.

DOCKERFILE

BUILD

WEB APP

2 Layer Caching and Build Optimization

Order instructions to take advantage of the build cache and use dockerignore files. Measure build time and image size improvements.

BUILD CACHE

DOCKERIGNORE

OPTIMIZATION

3 Multi-Stage Builds

Separate build and runtime stages to produce small final images. Apply the pattern to a compiled and an interpreted application.

MULTI-STAGE BUILDS

SLIM IMAGES

RUNTIME

4 Image Security and Scanning

Use minimal base images, non-root users and vulnerability scanners. Fix findings reported by a scan tool.

TRIVY

NON-ROOT

VULNERABILITY SCANNING

5 Docker Compose for Multi-Container Apps

Define a web app, database and cache in one Compose file. Manage environment variables, networks and dependencies.

DOCKER COMPOSE

MULTI-CONTAINER

ENVIRONMENT CONFIG

6 Automating Image Builds in CI

Build, test and push images automatically on every commit using a CI workflow. Apply versioned tagging conventions.

CI PIPELINE

GITHUB ACTIONS

IMAGE PUBLISHING

M4.3 Kubernetes Architecture and Core Objects · 6 topics

Learners grasp how a Kubernetes cluster works and deploy workloads using its core API objects.

1 Kubernetes Architecture Overview

Study the control plane, worker nodes, kubelet and etcd. Understand how a request flows through the cluster.

CONTROL PLANE

NODES

ETCD

2 Setting Up a Local Cluster and kubectl

Create a local cluster with kind or minikube and configure kubectl contexts. Run basic commands to explore cluster state.

KUBECTL

MINIKUBE

CONTEXTS

3 Pods and Their Lifecycle

Write Pod manifests in YAML and observe how Pods start, restart and terminate. Add probes to check health.

PODS

YAML MANIFESTS

HEALTH PROBES

4 Deployments and ReplicaSets

Run replicated applications and perform rolling updates and rollbacks. Understand how ReplicaSets maintain desired state.

DEPLOYMENTS

ROLLING UPDATES

ROLLBACKS

5 Services and Cluster Networking

Expose applications with ClusterIP, NodePort and LoadBalancer Services. Learn how service discovery and kube-proxy work.

SERVICES

SERVICE DISCOVERY

LOAD BALANCING

6 Namespaces, Labels and Selectors

Organize and isolate resources using namespaces and labels. Query objects efficiently with selectors.

NAMESPACES

LABELS

SELECTORS

M4.4 Configuration, Storage and Application Operations · 6 topics

Learners manage configuration, state and traffic routing for real applications running on Kubernetes.

1 ConfigMaps and Secrets

Decouple configuration from images using ConfigMaps and Secrets. Inject values as environment variables and mounted files.

CONFIGMAPS

SECRETS

TWELVE-FACTOR

2 Persistent Volumes and Claims

Provision durable storage with PersistentVolumes, claims and storage classes. Attach storage to a database Pod.

PERSISTENTVOLUMES

PVC

STORAGECLASS

3 StatefulSets and Stateful Workloads

Run ordered, stable-identity workloads such as databases with StatefulSets. Compare them with Deployments.

STATEFULSETS

STABLE IDENTITY

DATABASES

4

Ingress and Traffic Routing

Route external HTTP traffic to multiple services using an Ingress controller. Configure host and path rules.

INGRESS

NGINX CONTROLLER

ROUTING RULES

5

Resource Requests, Limits and Autoscaling

Set CPU and memory requests and limits and configure the Horizontal Pod Autoscaler. Observe scaling under simulated load.

RESOURCE LIMITS

HPA

LOAD TESTING

6

Jobs, CronJobs and Package Management with Helm

Run batch and scheduled tasks and package applications as Helm charts. Install and upgrade a chart with custom values.

JOBS

CRONJOBS

HELM

M4.5 Kubernetes in the Cloud and Operations · 6 topics

Learners run Kubernetes on managed cloud services and apply security, observability and troubleshooting practices.

1

Managed Kubernetes with Amazon EKS

Provision an EKS cluster and connect to it with kubectl. Understand node groups and the shared responsibility model.

AMAZON EKS

NODE GROUPS

CLUSTER PROVISIONING

2

Deploying an Application to EKS

Push an image to ECR and deploy it to EKS behind a cloud load balancer. Validate the release end to end.

ECR

LOAD BALANCER

DEPLOYMENT

3

RBAC and Kubernetes Security

Control access with roles, role bindings and service accounts. Apply network policies and Pod security settings.

RBAC

NETWORK POLICIES

SERVICE ACCOUNTS

4

Monitoring and Logging with Prometheus and Grafana

Collect cluster and application metrics and build dashboards. Set up a basic alert rule.

PROMETHEUS

GRAFANA

ALERTING

5

Troubleshooting Kubernetes Workloads

Diagnose CrashLoopBackOff, ImagePullBackOff and pending Pods using describe, logs and events. Follow a repeatable debugging workflow.

DEBUGGING

KUBECTL DESCRIBE

EVENTS

6

Capstone: Containerize and Deploy a Microservices App

Containerize a multi-service application and deploy it to Kubernetes with configuration, ingress and autoscaling. Present the architecture and lessons learned.

MICROSERVICES

END-TO-END DEPLOYMENT

PRESENTATION

05

SECTION 5

CI/CD Pipelines and Infrastructure as Code

Learners build automated delivery pipelines and provision cloud infrastructure through code using industry standard tools and practices.

5 modules · 30 topics

M5.1

CI/CD Principles and Pipeline Design · 6 topics

This module introduces the concepts and design patterns behind continuous integration and continuous delivery.

1

Continuous Integration Fundamentals

Understand why teams integrate code frequently and how automated builds catch defects early. Map the stages of a typical CI workflow from commit to build artifact.

CI CONCEPTS

BUILD AUTOMATION

CODE INTEGRATION

2

Continuous Delivery versus Continuous Deployment

Compare delivery and deployment models along with their approval gates and risk profiles. Decide which approach fits different team and product contexts.

RELEASE STRATEGY

DEPLOYMENT MODELS

RISK MANAGEMENT

3

Designing Pipeline Stages

Structure pipelines into build, test, scan, package and deploy stages. Learn how to keep stages fast, isolated and repeatable.

PIPELINE DESIGN

STAGE ISOLATION

REPEATABILITY

4

Automated Testing in Pipelines

Integrate unit, integration and smoke tests into automated workflows. Learn how to fail fast and report results clearly.

TEST AUTOMATION

QUALITY GATES

FAIL FAST

5

Artifact Management and Versioning

Store build outputs in registries and repositories with consistent version tags. Practice semantic versioning and artifact promotion across environments.

ARTIFACT REGISTRY

SEMANTIC VERSIONING

PROMOTION

6

Branching Strategies for Delivery

Examine trunk based development and GitFlow in the context of automated delivery. Choose a branching model that supports frequent and safe releases.

TRUNK BASED DEVELOPMENT

GITFLOW

RELEASE BRANCHES

M5.2

Building Pipelines with GitHub Actions and Jenkins · 6 topics

This module gives learners hands-on practice creating pipelines in two widely used CI/CD platforms.

1

GitHub Actions Workflows and Triggers

Write workflow files that respond to pushes, pull requests and schedules. Understand jobs, steps and runners.

GITHUB ACTIONS

YAML WORKFLOWS

EVENT TRIGGERS

2

Reusable Actions and Matrix Builds

Create reusable workflows and run builds across multiple versions and platforms. Reduce duplication while widening test coverage.

REUSABLE WORKFLOWS

MATRIX BUILDS

CACHING

3

Secrets and Environment Management

Store credentials securely and scope them to specific environments. Apply protection rules and manual approvals for production.

SECRETS HANDLING

ENVIRONMENTS

APPROVALS

4

Jenkins Architecture and Setup

Install Jenkins and configure controllers, agents and plugins. Understand how Jenkins schedules and executes builds.

JENKINS

AGENTS

PLUGIN MANAGEMENT

5

Declarative Jenkins Pipelines

Author Jenkinsfiles using declarative syntax with stages, conditions and post actions. Store pipeline definitions alongside application code.

JENKINSFILE

DECLARATIVE SYNTAX

PIPELINE AS CODE

6

Building and Pushing Docker Images in CI

Automate container image builds and publish them to a registry from a pipeline. Tag images using commit hashes and release versions.

DOCKER IN CI

IMAGE TAGGING

REGISTRY PUSH

M5.3 Infrastructure as Code with Terraform · 6 topics

This module teaches learners to define and provision cloud resources declaratively using Terraform.

1 Infrastructure as Code Concepts

Learn the benefits of declarative infrastructure including consistency, auditability and speed. Compare imperative and declarative approaches.

IAC PRINCIPLES

DECLARATIVE MODEL

IDEMPOTENCY

2 Terraform Workflow and HCL Basics

Use init, plan and apply to manage resources written in HashiCorp Configuration Language. Read plan output to predict changes.

TERRAFORM CLI

HCL SYNTAX

PLAN AND APPLY

3 Providers, Resources and Data Sources

Configure the AWS provider and define resources such as instances and buckets. Query existing infrastructure with data sources.

AWS PROVIDER

RESOURCES

DATA SOURCES

4 Variables, Outputs and Locals

Parameterize configurations to make them reusable across environments. Expose useful values through outputs.

INPUT VARIABLES

OUTPUTS

LOCALS

5 Remote State and Locking

Store state in remote backends with locking to enable safe team collaboration. Understand state files and how to protect them.

REMOTE STATE

STATE LOCKING

S3 BACKEND

6 Terraform Modules and Workspaces

Package configurations into reusable modules and manage multiple environments with workspaces. Apply conventions for clean project layout.

MODULES

WORKSPACES

CODE REUSE

M5.4 Configuration Management and GitOps · 6 topics

This module covers configuring servers with Ansible and managing deployments through Git driven workflows.

1 Configuration Management Overview

Understand the role of configuration management alongside provisioning tools. Compare Ansible, Chef and Puppet at a high level.

CONFIGURATION MANAGEMENT

TOOL COMPARISON

DESIRED STATE

2

Ansible Inventory and Ad Hoc Commands

Define inventories of hosts and run quick commands across them over SSH. Learn how Ansible operates without agents.

ANSIBLE

INVENTORY

SSH AUTOMATION

3

Writing Ansible Playbooks

Create playbooks with tasks, handlers and variables to configure servers. Practice writing idempotent and readable automation.

PLAYBOOKS

HANDLERS

IDEMPOTENT TASKS

4

Ansible Roles and Vault

Organize automation into roles and protect sensitive data with Ansible Vault. Share and reuse roles across projects.

ROLES

ANSIBLE VAULT

REUSABILITY

5

GitOps Principles

Treat Git as the single source of truth for infrastructure and application state. Explore pull based reconciliation and drift detection.

GITOPS

DRIFT DETECTION

SOURCE OF TRUTH

6

Continuous Deployment to Kubernetes with Argo CD

Install Argo CD and sync application manifests from a Git repository to a cluster. Practice rollbacks and automated sync policies.

ARGO CD

KUBERNETES DEPLOYMENT

ROLLBACKS

M5.5

Secure and Reliable Delivery Practices · 6 topics

This module focuses on securing pipelines and releasing software safely with confidence.

1

Shifting Security Left with DevSecOps

Embed security checks early in the development lifecycle. Understand shared responsibility between developers and operations.

DEVSECOPS

SHIFT LEFT

SECURITY CULTURE

2

Static Analysis and Dependency Scanning

Add code quality and vulnerability scans to pipelines using SAST and software composition analysis tools. Triage findings and set pass or fail thresholds.

SAST

DEPENDENCY SCANNING

VULNERABILITY TRIAGE

3

Container Image and IaC Scanning

Scan container images and Terraform code for misconfigurations and known vulnerabilities. Block risky changes before they reach production.

IMAGE SCANNING

POLICY CHECKS

MISCONFIGURATION

4

Blue Green and Canary Deployments

Release changes gradually or in parallel environments to reduce risk. Compare traffic shifting techniques and rollback speed.

BLUE GREEN

CANARY RELEASE

TRAFFIC SHIFTING

5

Feature Flags and Rollback Strategies

Decouple deployment from release using feature flags. Plan reliable rollback procedures for failed releases.

FEATURE FLAGS

ROLLBACK

RELEASE SAFETY

6

Capstone Pipeline Build and Review

Assemble an end to end pipeline that tests, scans, provisions infrastructure and deploys an application. Present the design and receive structured feedback.

END TO END PIPELINE

INTEGRATION

TECHNICAL PRESENTATION

06

SECTION 6

Monitoring, Security and Capstone Deployment

Learners master observability, cloud security and cost governance, then apply everything by designing, deploying and presenting a production-grade capstone project.

5 modules · 30 topics

M6.1

Observability and Monitoring Foundations · 6 topics

Learners build visibility into cloud applications using metrics, logs and traces.

1

Principles of Observability

Understand the difference between monitoring and observability and the role of metrics, logs and traces. Learn how golden signals guide what to measure.

OBSERVABILITY

GOLDEN SIGNALS

METRICS

2

Amazon CloudWatch Metrics and Alarms

Create custom metrics, dashboards and alarms for EC2 and managed services. Configure notifications through SNS.

CLOUDWATCH

ALARMS

SNS

3 Centralized Logging with CloudWatch Logs and ELK

Ship application and system logs to a central store and query them effectively. Compare managed logging with the ELK stack.

LOGGING

ELK STACK

LOG INSIGHTS

4 Prometheus and Grafana for Kubernetes

Deploy Prometheus and Grafana on a cluster to scrape metrics and build dashboards. Write basic PromQL queries.

PROMETHEUS

GRAFANA

PROMQL

5 Distributed Tracing and Application Performance

Trace requests across microservices using OpenTelemetry and AWS X-Ray. Identify latency bottlenecks in service calls.

OPENTELEMETRY

X-RAY

TRACING

6 Alerting, SLIs, SLOs and Incident Response

Define service level indicators and objectives and design actionable alerts. Practice an incident workflow with a blameless postmortem.

SLO

INCIDENT RESPONSE

ON-CALL

M6.2 Cloud Security and Identity Management · 6 topics

Learners secure identities, access and data across cloud environments.

1 Shared Responsibility and Security Fundamentals

Learn the shared responsibility model and core security principles such as least privilege and defense in depth.

SHARED RESPONSIBILITY

LEAST PRIVILEGE

THREAT BASICS

2 IAM Policies Roles and Federation

Write IAM policies and configure roles for services and cross-account access. Review MFA and single sign-on options.

IAM

ROLES

MFA

3 Data Protection with KMS and Encryption

Encrypt data at rest and in transit using KMS and TLS certificates. Manage key rotation and access to keys.

KMS

ENCRYPTION

TLS

4 Secrets Management and Secure Configuration

Store and rotate credentials with AWS Secrets Manager and Parameter Store. Keep secrets out of code and pipelines.

SECRETS MANAGER

PARAMETER STORE

CONFIG SECURITY

5 Network Security and Perimeter Defense

Harden VPCs using security groups, NACLs, WAF and Shield. Apply private connectivity patterns to reduce exposure.

[SECURITY GROUPS](#)
[WAF](#)
[VPC SECURITY](#)

6 Threat Detection with GuardDuty and CloudTrail

Enable audit logging and threat detection to spot suspicious activity. Respond to findings with automated remediation.

[GUARDDUTY](#)
[CLOUDTRAIL](#)
[AUTO REMEDIATION](#)

M6.3 DevSecOps and Compliance Automation · 6 topics

Learners embed security checks and governance into delivery pipelines and infrastructure.

1 Shifting Security Left in CI/CD

Integrate security gates into pipelines from commit to deploy. Understand where each type of scan fits.

[DEVSECOPS](#)
[PIPELINE GATES](#)
[SHIFT LEFT](#)

2 Static and Dependency Scanning

Run SAST and software composition analysis to catch code flaws and vulnerable libraries. Triage and fix findings.

[SAST](#)
[DEPENDENCY SCANNING](#)
[VULNERABILITY TRIAGE](#)

3 Container Image and Kubernetes Security

Scan images with Trivy and apply pod security standards, network policies and RBAC. Reduce the container attack surface.

[TRIVY](#)
[RBAC](#)
[NETWORK POLICIES](#)

4 Infrastructure as Code Policy Checks

Validate Terraform with tools like Checkov and enforce rules using policy as code. Block risky changes before they reach production.

[CHECKOV](#)
[POLICY AS CODE](#)
[TERRAFORM](#)

5 Compliance and Governance with AWS Config

Use AWS Config and Security Hub to track configuration drift and compliance posture. Map controls to common frameworks.

[AWS CONFIG](#)
[SECURITY HUB](#)
[COMPLIANCE](#)

6 Backup, Disaster Recovery and Resilience

Design backup and recovery strategies with defined RTO and RPO targets. Compare pilot light, warm standby and multi-region approaches.

[DISASTER RECOVERY](#)
[RTO AND RPO](#)
[BACKUPS](#)

M6.4 Cost Optimization and Operational Excellence · 6 topics

Learners control cloud spend and improve reliability and performance of running systems.

1 Cloud Financial Management Basics

Understand cost drivers and use Cost Explorer, budgets and tagging to gain spend visibility.

[COST EXPLORER](#)
[BUDGETS](#)
[TAGGING](#)

2 Right-Sizing and Pricing Models

Choose between on-demand, reserved, savings plans and spot capacity. Right-size compute based on utilization data.

[RIGHT-SIZING](#)
[SPOT INSTANCES](#)
[SAVINGS PLANS](#)

3 Autoscaling and Performance Tuning

Configure autoscaling policies and load test applications to tune capacity. Balance performance against cost.

[AUTOSCALING](#)
[LOAD TESTING](#)
[PERFORMANCE](#)

4 Reliability Engineering and Chaos Testing

Apply reliability patterns such as retries, circuit breakers and health checks. Run simple chaos experiments to validate resilience.

[RELIABILITY](#)
[CHAOS ENGINEERING](#)
[HEALTH CHECKS](#)

5 Well-Architected Framework Review

Evaluate a workload against the six pillars of the AWS Well-Architected Framework. Produce an improvement plan from the findings.

[WELL-ARCHITECTED](#)
[ARCHITECTURE REVIEW](#)
[BEST PRACTICES](#)

6 Runbooks and Operational Automation

Write runbooks and automate routine operations with Systems Manager and Lambda. Reduce toil through repeatable procedures.

[RUNBOOKS](#)
[SYSTEMS MANAGER](#)
[AUTOMATION](#)

M6.5 Capstone Project Deployment and Career Launch · 6 topics

Learners design, deploy, secure and present an end-to-end cloud project and prepare for DevOps roles.

1 Capstone Planning and Architecture Design

Define requirements and design the capstone architecture covering networking, compute, pipeline and monitoring.

Document decisions in a diagram and design brief.

[ARCHITECTURE DESIGN](#)
[REQUIREMENTS](#)
[DOCUMENTATION](#)

2

Building Infrastructure and Pipeline for the Capstone

Provision the capstone environment with Terraform and set up a CI/CD pipeline. Apply version control workflows in a team setting.

TERRAFORM

CI/CD

GIT WORKFLOW

3

Deploying the Application to Kubernetes

Containerize the application and deploy it to a cluster with rolling updates and configuration management. Expose it securely through an ingress.

KUBERNETES

HELM

INGRESS

4

Adding Monitoring and Security Controls

Instrument the capstone with dashboards, alerts and security scans. Verify IAM, secrets and network controls against a checklist.

MONITORING

SECURITY HARDENING

ALERTING

5

Capstone Demo and Peer Review

Present the deployed solution live and explain design trade-offs. Give and receive structured feedback from peers and mentors.

PRESENTATION

PEER REVIEW

TECHNICAL COMMUNICATION

6

Certification Roadmap and DevOps Interview Preparation

Map a path to AWS and Kubernetes certifications and practice common DevOps interview questions. Build a portfolio and resume that showcase the capstone.

CERTIFICATIONS

INTERVIEW PREP

PORTFOLIO

07 · PLACEMENT TRAINING



Our Placement Support Services

Placement Training comes with the Placement Assistance plan. Once your course is completed, our placement trainers take you through these six live sessions one by one - finish all six to earn the Placement Training Completion Certificate.

01

Complete your course

Placement Training starts after course completion

02

6 sessions, one by one

Each step is scheduled after the previous one is done

03

Get certified

Placement Training Completion Certificate

STEP 1 OF 6 · LIVE SESSION

1:1 Mock Interview

A live one-to-one mock interview with an industry expert, followed by honest feedback on your answers, confidence and presence.

- ✓ Technical & HR round simulation
- ✓ Questions from your course domain
- ✓ Body language & confidence pointers
- ✓ Personal improvement checklist

1:1 Live

Online

Feedback

After course completion · live with a placement trainer

STEP 2 OF 6 · EXPERT REVIEW

Resume Optimization

Your resume reviewed line by line and reshaped into a clear, ATS-friendly profile that highlights your projects and skills.

- ✓ Structure & format review
- ✓ Impact-focused bullet points
- ✓ Course projects showcased
- ✓ Keywords for your target roles

ATS-Ready

Projects

Rewrite

After course completion · live with a placement trainer

STEP 3 OF 6 · PROFILE MAKEOVER

LinkedIn Optimization

Headline, About, skills and featured work tuned so recruiters can find you and quickly see what you can do.

- ✓ Headline & About section
- ✓ Skills & endorsements plan
- ✓ Featured projects & certificates
- ✓ Networking & outreach tips

Discoverable

Skills

Network

After course completion · live with a placement trainer

STEP 4 OF 6 · INDUSTRY-LED

Career-Led Workshop

A practical workshop on job search strategy, applications, interviews and how hiring works in your domain.

- ✓ Finding the right openings
- ✓ Applications that get replies
- ✓ Interview rounds explained
- ✓ Offer & joining essentials

Job Search

Live

Hiring Process

After course completion · live with a placement trainer

STEP 5 OF 6 · MENTOR-LED

Career-Led Mentorship

Personal guidance from an industry mentor on roles, growth paths and your next career moves.

- ✓ Role & domain fit discussion
- ✓ Personal career roadmap
- ✓ Skill gaps to close next
- ✓ Answers to your career questions

1:1 Mentor

Career Path

Growth

After course completion · live with a placement trainer

STEP 6 OF 6 · COMMUNICATION

Industrial Communication Training

Workplace communication that employers expect: emails, meetings, presentations and professional etiquette.

- ✓ Professional emails & messages
- ✓ Meetings & stand-up updates
- ✓ Presenting your work clearly
- ✓ Workplace etiquette & teamwork

Emails

Speaking

Workplace

After course completion · live with a placement trainer

Placement Training Completion Certificate

Complete all six sessions to receive a verifiable certificate listing every training you finished - share it with recruiters along with your course certificate.

08 · SUBJECT MATTER EXPERTS



Meet Our SME Board Members

Expert professionals guiding your journey through real-world industry knowledge and practical experience.

**SME BOARD MEMBER · SENIOR SME**

Harshavardhan Kumar

Lead Consultant

Intern Stump Solutions · Subject Matter Expert

Computer Science professional specializing in AI, software development, education, and UI/UX consulting.

Harshavardhan Kumar Jajam is a technology professional, educator, and Lead UI/UX Consultant at Intern Stump Solutions, specializing in Artificial Intelligence, Python, Data Science, Full-Stack Development, cloud computing, and industry-oriented technical education.

**SME BOARD MEMBER · SENIOR SME**

Sri Satya Lokesh

Lead Engineer

Dhan AI · Subject Matter Expert

Strategic Lead Engineer specializing in scalable microservices, AI automation, and Conversational AI.

Strategic Lead Engineer with 6+ years of experience in microservices, AI automation, and Conversational AI, specializing in Node.js, TypeScript, Python, Kafka, scalable architectures, performance optimization, mentoring, and enterprise technology modernization.

09 · TOOLS AND TECHNIQUES



Key Tools and Techniques

Master industry-standard methodologies used by top-tier professionals, gaining practical exposure to tools, frameworks, and strategies for results.

INDUSTRY STANDARD

01

Amazon Web Services

The leading cloud platform used to run compute, storage, database and networking workloads.

CORE SKILL

02

Linux and Bash

The command line and scripting skills that underpin almost every server and DevOps task.

MUST HAVE

03

Git and GitHub

Version control and collaboration workflows including branching, pull requests and code reviews.

HIGHLY DEMANDED

04

Docker

Package applications and dependencies into portable containers that run the same everywhere.

IN DEMAND

05

Kubernetes

Orchestrate, scale and manage containerised applications across clusters.

WIDELY USED

06

Jenkins

Automation server for building continuous integration and delivery pipelines.

IAC LEADER

07

Terraform

Define and provision cloud infrastructure through declarative, version-controlled code.

AUTOMATION

08

Ansible

Agentless configuration management for automating server setup and application deployment.

OBSERVABILITY

09

Prometheus and Grafana

Collect metrics and build dashboards and alerts to keep systems observable and reliable.

Many More Tools Integrated in Curriculum

10 · COURSE PROJECTS



Projects You Will Work On

Build a strong portfolio by working on industry-relevant projects that simulate real job scenarios, helping you gain confidence and career-ready skills.

INDUSTRY-LED PROJECT

01

Linux Server Setup and Hardening

Provision a Linux virtual machine and configure users, permissions, SSH keys and a firewall. Automate routine checks with shell scripts.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

02

Static Website on AWS S3 and CloudFront

Host a static website on S3 with a CDN and a custom domain setup. Configure HTTPS and access policies.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

03

Three-Tier Application on AWS

Deploy a web app using EC2, RDS and a load balancer inside a custom VPC. Configure security groups and auto scaling.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

04

Dockerised Microservices App

Containerise a multi-service application with Dockerfiles and Docker Compose. Push images to a container registry.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

05

Kubernetes Cluster Deployment

Deploy an application on Kubernetes with deployments, services and ingress. Practise rolling updates, rollbacks and scaling.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

06

Jenkins CI/CD Pipeline

Build a pipeline that tests, builds and deploys code on every commit. Add approval stages and notifications.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

07

GitHub Actions Deployment Workflow

Create automated workflows that build Docker images and deploy to AWS. Manage secrets and environments safely.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

08

Infrastructure as Code with Terraform

Write Terraform modules to provision a VPC, compute and storage resources. Manage remote state and multiple environments.

Duration: 6-10 hours

INDUSTRY-LED PROJECT

09

**Monitoring Dashboard with Prometheus
and Grafana**

Collect metrics from servers and containers and visualise them on Grafana dashboards. Configure alerts for key thresholds.

Duration: 6-10 hours



11 · CHOOSE YOUR PLAN

Plans & pricing

Every plan includes live classes with industry SMEs and a verified course completion certificate. Pick the depth of support you want - your plan also unlocks discounts across Intern Stump.

Starts	To be announced	Enrolment closes	Batch details soon
Duration	4 Months	Timings	To be announced
Batch	Batch details updating soon	Batch status	Batch open · Batch dates announced soon

Compare plans One-time fee · inclusive of GST	Plan 1 Course Only Live classes with your SME, SME AI and live doubt chat. ₹9,999 ₹20,000 · 50% OFF	MOST POPULAR Plan 2 Course + Live Work Experience Build real projects and earn a live work experience certificate. ₹17,799 ₹60,000 · 70% OFF	Plan 3 Placement Assistance Everything in Live Work Experience, plus placement training. ₹25,999 ₹50,000 · 48% OFF
Live classes & completion certificate	✓ Included	✓ Included	✓ Included
Live projects	✗ Not included	✓ Included	✓ Included
Live work experience certificate	✗ Not included	✓ Included	✓ Included
8C appraisal (rated by your SME)	✓ Included	✓ Included	✓ Included
SME AI (Insyrio)	✓ Included	✓ Included	✓ Included
Live chat with SME	✓ Included	✗ Not included	✓ Included

Placement assistance	✗ Not included	✗ Not included	✓ Included
Plan perks	10% off across Intern Stump - coins, self-paced courses, masterclasses, mock interviews 15% off membership plans	15% off across Intern Stump - coins, self-paced courses, masterclasses, mock interviews 20% off membership plans	20% off across Intern Stump - coins, self-paced courses, masterclasses, mock interviews 25% off membership plans
Also included	• Live classes with industry SMEs • Course completion certificate • 8C appraisal rated by your SME	• Live classes with industry SMEs • Course completion certificate • Live projects reviewed by your SME	• Live classes with industry SMEs • Course completion certificate • Six live placement training sessions

Good to know

Completion certificate

Verifiable ID - a sample certificate can be previewed on the course page.

8C Appraisal System

How the eight Cs work - see the 8C Appraisal section of this brochure.

Part-pay with iSure Coins

Use your coin balance at checkout.

Need help choosing?

See the FAQs or book a free demo.

12 · 8C APPRAISAL



World's First Ed-Tech with 8C Appraisal

Verified 8C Appraisal Certificate: every candidate receives an official corporate readiness report shared directly with hiring partners upon course completion.

The 8C Appraisal is a proprietary evaluation matrix measuring holistic performance across 8 career pillars for authentic proof-of-work:

Communication

Configuration

Chronicle

Completeness

Cognizance

Conception

Comprehension

Case Study



Frequently Asked Questions

Find answers to common questions about our learning tracks, placement assistance, and 8C evaluation model, or connect directly with an academic consultant.

Q1

Do I need prior coding experience to join Cloud Computing & DevOps?

No advanced coding is required. Basic computer skills are enough, and we teach Linux, scripting and automation from the ground up. Familiarity with any programming language will help you move faster.

Q2

What is the duration of the course?

The course runs for 4 Months with live mentor-led sessions, hands-on labs and project work. The schedule is designed so you can balance it with college or a job.

Q3

When does the next batch start and what are the timings?

The next batch is the next batch and starts on soon. Sessions are held at to be announced. Recordings are shared if you miss a class.

Q4

What is the course fee and is there a discount?

The course fee is ₹17,799, down from the actual fee of ₹60,000, which gives you a saving of 70%. Please check the enrolment page for the latest offers.

Q5

Will I get hands-on practice on real cloud infrastructure?

Yes. Every module includes live labs on AWS and related tools, and you complete nine projects. We guide you on staying within free-tier limits to avoid unexpected costs.

Q6

Which certifications will this course help me prepare for?

The curriculum aligns with topics in AWS Cloud Practitioner, AWS Solutions Architect Associate, Kubernetes CKA and Terraform Associate. Exam fees are separate and not included in the course.

Q7

What career roles can I apply for after this course?

You can apply for roles such as DevOps Engineer, Cloud Engineer, Site Reliability Engineer trainee, Build and Release Engineer and Cloud Support Engineer. We also help with resume building and mock interviews.

Q8

Will I receive a certificate on completion?

Yes. After completing the required sessions and projects in Cloud Computing & DevOps, you receive an Intern Stump certificate of completion that you can add to your resume and LinkedIn profile.

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