

AWS+DevSecOps

Hands-On

100+ Hours Job Ready Program



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Why Choose This Program?

More Practical, **Less Theory**

150+ Al Integrated Real World Tasks

2 -Years Access to Recordings

Resume Building + **Mock Interviews**

Class start with **Interview Questions**

24x7 AI enabled Course Assistance

Certification Exam Simulator

5 Enterprise Grade Capstone Projects

Daily Support + 24x7 Slack Support





Meet Your Trainer - Avinash Reddy Thipparthi

Avinash Reddy Thipparthi is a passionate DevOps and Cloud expert with 14 years of experience in the IT industry and over 9 years of teaching and mentoring professionals and students. With a strong foundation in real-time projects and hands-on training, he has helped thousands of learners build successful careers in cloud computing and DevOps.

He is a recognized AWS Community Builder for the last three years and an official Docker Captain, earning global recognition for his contributions to the cloud and DevOps communities.

Avinash has impacted over 50,000 learners through various platforms including YouTube, Udemy, UrbanPro, classroom sessions, and dedicated online training programs. His YouTube channel, followed by 39,000+ subscribers, is widely appreciated for breaking down complex topics into simple, practical lessons making cloud and DevOps learning more accessible for everyone.

HE HOLDS A WIDE RANGE OF INDUSTRY CERTIFICATIONS

7 AWS Certifications

✓ 2 X Azure | GCP | RHEI

Join Avinash and start your journey toward a successful career in DevOps and cloud computing with the right mentorship and hands-on experience.

My goal is to make learning cloud and DevOps simple, practical, and career-focused. Whether you're starting fresh or making a switch, I'm here to guide you every step of the way.

-Avinash Reddy Thipparthi





AWS Course Content

INTRODUCTION TO CLOUD COMPUTING

INTRODUCTION TO AWS

AWS Global infrastructure
AWS Account creation

MFA Configuration for root user

Free tier limitations overview

COST MONITORING AND ALERTING

AWS Budgets

AWS Cost Explorer

AWS Simple Monthly calculator



IDENTITY ACCESS MANAGEMENT

Root Account Vs IAM user

Multi Factor Authentication for Users

IAM Password Policies

Creating Customer Managed Policies.

Policy generator

IAM Policy Simulator

Auditing User Activity

INTRODUCTION TO AI FOR DEVOPS

Amazon Q CLI configuration

Copilot for Devops

INTODUCTION TO laaC TOOLS

what is cloudformation
Understanding CFT components
Create resources using CFT



LINUX COURSE

What is Linux OS
Linux directory structure
Linux basic commands
File and Directory Management
Data manupulation commands
Understanding VIM Editor
Packaging Management with YUM and DNF

Apache and nginx install & Configuration

Process Management

User Management

Permissions Management

Volume Management with EBS

Extending existing EBS Volumes



COMPUTE

EC2 Instance Launch Wizard with Windows

and Linux OS

EC2 Instance Types and Classes

Security groups

Amazon EBS Volumes and Snapshots

Amazon Data lifecycle manager (DLM)

Creating customized Amazon Machine Images

User Data and Metadata

Creating Alarm for EC2 instance.

CloudWatch Dashboard creation

Amazon Eventbridge

Elastic File System

Placement Groups

AWS CLI and IAM Roles

Custom EC2 Metrics with CW



Load Balancing and Auto Scaling

Horizantal Scaling

Vertical Scaling

understanding Load Balancing

Application Load Balancer

Network Load Balancer

Target Groups and Listeners

Auto Scaling Group / ASG

Understanding ASG

Manual Scaling

Step Scaling

Target Tracking Scaling

Schedule Scaling

AWS Systems Manager

Run Command

Session Manager

Resource Naming Standards in AWS

AWS Secrets Manager

Route 53

Introduction to DNS

DNS Records overview

Routing Policies

Hosting Website with Policies.

Simple RP

Weighted RP

Failover RP

Geo Location RP

Failover RP

STORAGE

What is Simple Storage Service (S3)

Storage Classes

Versioning

Cross-region replication

Same Region replication

Life Cycle Management

Security & Encryption

KMS (Key Management Service)

Static Web Hosting with S3 bucket

Events configuration on S3 buckets

Enabling cross account access for S3

S3 Data management and backup

using 3rd Party applications.

Pre-Signed URLs

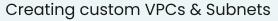
Storage Gateway

Direct Connect and AWS Snowball

VPC (Virtual Private Cloud)

Understanding IP concept

Networking Basics



Network ACL's

Route Tables & IGW

VPC Peering

Flowlog creation to S3 and CW Logs Group

VPC Endpoints

AWS Transit gateway

Site-to-Site VPN Configuration

Databases

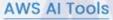
Launching a RDS DB Instances

Multi AZ Cluster/Instance

Read Replicas for RDS

DynamoDB

Redshift and Elastichache over



Understanding Generative Al

Understanding Agentic Al

Configuring MCP Server

Amazon Bedrock

Amazon Q Configuration

Amazon Sagemaker overview

Security Services:

CloudTrail

AWS Config

Key Management Services

AWS Certificate Manager

AWS Trusted Advisor

Content Delivery Networks / CloudFront

AWS Shield and WAF

AWS Multi Account Management

AWS Organizations

Amazon Single Sign-On

Application Services

Simple Notification Service

Lambda





Migration Services

DMS - Database Migration Service

Introduction to DevOps

Introduction to SDLC

Waterfall Model

Advantages of Waterfall Model

Dis-Advantages of Waterfall Model

Agile Methodology

DevOps History

DevOps Lifecycle



DevOps Services:

What is DevOps in Cloud

Code Pipeline

Code Build

Code Commit

Code Deploy

Introduction to Terraform

Getting Started with Terraform

Terraform Settings & Version Management

Providers Overview

Provider Configuration

Lock and Upgrade Provider Versions

Terraform State Purpose & Basics

Core Terraform Workflow

terraform init

terraform validate

terraform plan

terraform apply

terraform destroy

terraform fmt

Using Modules

Input Variables & Output Values

State Management Basics
Managing Resource Drift
Debugging Terraform
Creating resources using terraform
Resources & Data Sources
Resource Dependencies

Github:

Introduction to github
Basic Git Commands
Git status, add, commit, push
pull, clone, branch, merge
Git Webhooks
Integrating Git with AWS



Introduction to Docker

Introduction to Containers
Network modes in Docker
Writing Dockerfile
Multi Stage Dockerfile
Building Custom Images

Volume Management in Docker
DockerHub

Push images to Dockerhub Resource Limits on Containers Introduction to Docker Compose Running services with compose



Elastic Container Registry

Create a Repo in ECR
Push image to ECR
Push image to DockerHUB





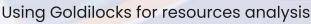
AWS Container Services (ECS)

What is Elastic Container Service Understanding ECS Task Understanding ECS service Integrating with Load Balancer & ASG Automating ECS deployments with CI/CD pipeline

AWS Elastic Kubernetes Service (EKS)

What is Kubernetes? understanding K8s Architecture Node vs Pod Vs ReplicaSet **Understanding Services in K8s** ClusterIP Vs NodePort Vs Load Balancer Creating and Managing EKS cluster

Configure KUBECTL-AI Vertical Pod AutoScaler Horizontal Pod Autoscaler Cluster AutoScaler



Understanding HELM Preparing HELM chart for project Ingress Controller / Application Load Balancer Controller Understanding IAM Authentication and RBAC **EKS ControlPlane Logging** Integrating IBM Kubecost for Cost Analysis Understanding Prometheus Grafanal Integrating with AWS Services i.e; ELB, CW Creating AWS EKS Auto Mode Creating EKS Fargate Deploying project on EKS

Introduction to Github Actions

Variables in GH Actions Configuring Runners AWS config using GHA Runners in GH Actions Accessing AWS using GHA Deploy code to EC2 using GHA Push Image to ECR using GHA Perform CICD to ECS/EKS using GHA Integrate with AgroCD for EKS with GHA

- Capstone project on 3 Tier architecture
- ➤ Capstone project on Micro Services

Maven

What is Maven Understanding maven lifecycle Preparing war/jar files using maven

Gradle

What is Gradle Understanding Gradle lifecycle Preparing war/jar files using Gradle



ADDITIONAL BENEFITS

and Learning Opportunities



Capstone Projects Showcasing End-to-end Aws Services.

Discussions on Quiz and Scenario Based Questions.





Key Resume Tips and an Overview of AWS Certifications.

Discussing Interview and Certification Exam Questions Alongside Topic discussions.





Offering complimentary Ansible, Shell, Jenkins courses to all registered participants.



THIS ISN'T THE END OF A BROCHURE

It's the start of your breakthrough.

To all my students, When you choose to learn with me, you're not just signing up for a course — you're beginning a career-changing journey. My commitment to you goes beyond sessions and slides. I'm here to support your growth, clear your doubts, guide your decisions, and celebrate your wins.

Whether you're a beginner stepping into IT or a working professional making the switch to cloud, you'll never walk this path alone. With every live session, every project, and every challenge — I'll be right there with you.

This is my word to you: I will teach you with clarity, mentor you with sincerity, and back you with everything I know. Your success is my mission. Let's not just learn DevOps and AWS — let's build a future you can be proud of.

-Avinash Reddy Thipparthi







