



TEAMMATES

- AI INFUSED CLOUD DEVOPS PROGRAM-

AWS CERTIFICATION TRAININGS & DEVOPS

AMAZON WEB SERVICES

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud, offering over 200 fully featured services from data centres globally. Millions of customers—including the fastest-growing start-ups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster.

WHY SHOULD WE LEARN AWS?

- #1 and fastest growing Cloud platform.
- Market leader in cloud provider with 31% market share.
- High demand for AWS jobs outstrips available professionals.
- Cloud skill is must for an IT professional to survive in the Industry.

WHY JOIN TEAMMATES?

Integrated AWS Certification Course with TEAMMATES enables students with different qualifications and background, fresher or experienced, to pursue a career in Cloud Computing & AWS. The Integrated course has been designed to cover all the topics for foundational as well as associate level certifications.



Passionate students are always backed by our highly experienced faculty team with real-time experience. Our faculty not just brings in with them immense real-time experience but also the ability to train students in gaining the relevant mind-set that will set them on their path towards pursuing a career in AWS.

Our course includes in-depth discussions on the topics from basic to advanced level, Classroom training, Practice labs, Hands on projects, Real-time projects, Training material, Interview questions and certification preparation.



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INTRODUCTION TO CLOUD COMPUTING

- Introduction
- Basics of Cloud Computing
- Cloud Ecosystem
- Cloud Services and Pricing
- **Building a business case for cloud**

AWS TECH ESSENTIALS

- Introduction to AWS console
- Free tier AWS account creation
- Identity and Access Management (IAM)
- Virtual Private Cloud (VPC)
- Elastic Compute Cloud (EC2)
- AWS Storage
- Load Balancing and Autoscaling
- Route53 and Cloud Front
- Monitoring and Alerts
- Databases
- Serverless computing
- Security and Compliance
- AWS pricing and billing

COMPUTE AND RELATED FEATURES

- Elastic Cloud Compute (EC2)
- **Hands on: Creating and AMI Image and Launching EC2**
- EBS (Elastic Block Store)
- ELB (Elastic Load Balancing)
- **Hands on: Launching Web server Instance, Application load Balancer, Creating a Network Load balancer.**
- Introduction to Auto Scaling

STORAGE SERVICES

- **Complete Hands on Simple Storage service (S3)**
- S3 storage classes and Life cycle management.
- Storage Gateway

- EFS (Elastic File System)
- Athena and Glue
- **Hands on: Create EFS on Linux and Windows, Glue data catalog, Query S3 with Athena**

VIRTUAL NETWORK & CONTENT

DELIVERY

- Virtual Private Cloud (VPC)
- NAT and Internet gateway
- VPN
- Direct Connect
- Cloud Front
- Route53
- **Hands on : VPC, Public and Private Subnets, Route table and NAT, Cloud Front distribution, Private hosted zone and domains for internal resources.**

DATABASES

- RDS (Relational Database Services)
- DynamoDB
- Amazon Redshift
- Amazon ElastiCache
- **Hands on : Creating MySQL instance, Querying data using Query editor in Redshift, CRUD operation using DynamoDB.**

SERVERLESS

- AWS Lambda
- SNS (Simple Notification Service)
- SQS (Simple Queue Service)
- Event Bridge
- Kinesis
- API Gateway
- **Hands on: Create and test Lambda function and View logs, SNS topic, SQS queue , S3 Event Notification, Kinesis Data streams.**

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CONTAINERS ON AWS

- ECS (Elastic Container Service)
- Amazon ECR (Elastic ContainerRegistry)
- Amazon EKS (Elastic Kubernetesservice)
- Fargate
- Docker
- **Hands on: Creating ECS cluster, EKS,App Runner, Run task on Fargate cluster.**

ELASTIC BEANSTALK

- Introduction and Overview
- Deployment
- Advanced Topics
- **Hands on: Deploying applicationusing Beanstalk**

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CI/CD AND DEVELOPER TOOLS

- Developer tools Overview
- Code Build, Code Commit and CodeDeploy
- Code Pipeline
- Cloud9
- Cloud Formation
- **Hands on: Code Build, Code Commit,Code Deploy, Cloud9, Create stack using Cloud Formation, CFN templates, Deployment using CFN.**

MONITORING AND AUDIT

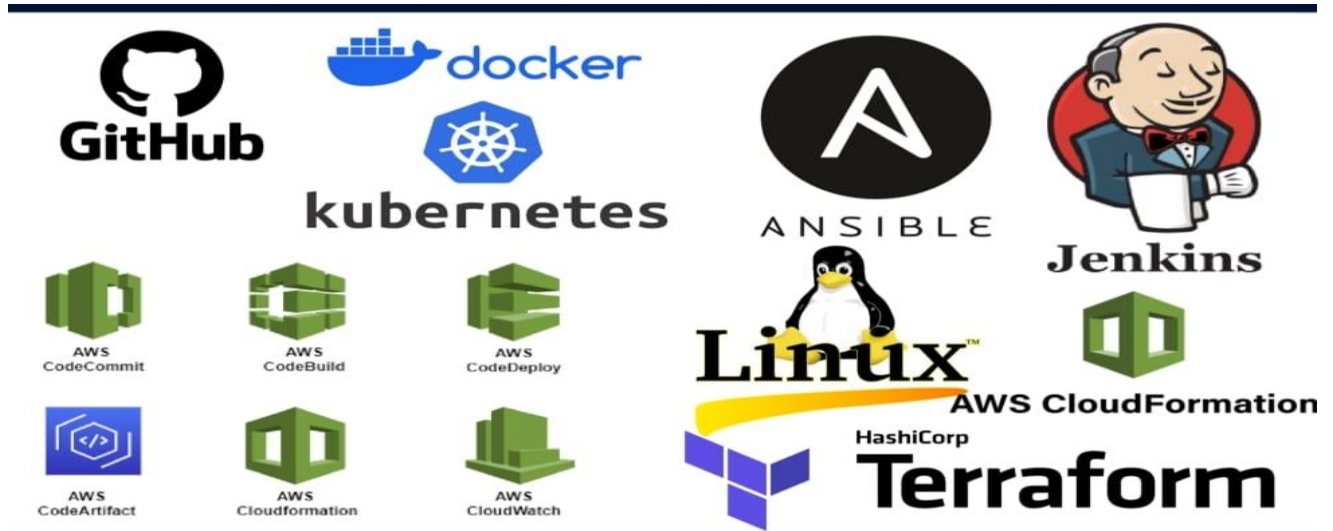
- CloudWatch
- CloudTrail



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DEVOPS



- EC2 for DevOps
- AMI (Amazon Machine Image)
- Managing EC2 at scale
- Elastic Beanstalk for DevOps
- CloudFormation for DevOps
- Serverless for DevOps
- Storage and Data Management
- S3 for DevOps
- CloudFront
- Databases for DevOps
- Monitoring, Auditing and Performance
- AWS Account management
- Disaster recovery
- AWS Networking for DevOps
- Complete Hands on DevOps resources.

Artificial Intelligence Tools.



ChatGPT



Bard



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REAL-TIME PROJECTS

- ✓ *Vertical Scaling of EBS volumes for a Linux VM.*
- ✓ *Static Website hosted on S3.*
- ✓ *Customizing EC2 instances for hosting Web instance.*
- ✓ *Configure and Connect a MySQL Database Instance with a Web Server and Set up the Monitoring of the Solution.*
- ✓ *Create and configure Users, Group, Roles and Policies.*
- ✓ *Configure a Lambda function using S3 Notification to copy the S3 data to Redshift.*
- ✓ *Create Alarms using CloudWatch.*
- ✓ *Setup Data Pipeline using ETL.*
- ✓ *Developing a dashboard on QuickSight.*
- ✓ *Developing a Serveless WebApp.*



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