

Experience a learning path that resonates with you. Learn full-stack development, Cloud computing, DevOps, Automation, Artificial intelligence and much more ...



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Assessments



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Mentorship



Placement



Community

Classroom (Bengaluru) | Online (Global) | On-premise (Corporate)

## Unit 1: Cloud Computing

1. What is Cloud Computing?
2. Different types of cloud computing
3. Different cloud service providers
4. AWS cloud Overview
5. AWS global Services
6. AWS regions and availability zones
7. AWS edge locations
8. AWS serverless
9. Creating an AWS account

## Unit 2: Identity & Access Management, Developer tools

1. IAM introduction
2. IAM Users and Groups
3. IAM Policies
4. IAM MFA
5. IAM Security tools
6. AWS CLI
7. AWS Cloud Shell



## Unit 3: Account management, billing and support

1. AWS Organizations
2. AWS Control Tower
3. Pricing Models of the Cloud
4. Billing and Costing Tools
5. AWS Resource Access Manager
6. AWS Service Catalog
7. Compute Optimize
8. Pricing Calculator
9. Billing Dashboard
10. Cost Allocation Tags
11. Cost and Usage Reports
12. Cost Explorer
13. Billing Alarms
14. Budgets
15. Savings Plans
16. Cost Anomaly Detection
17. Service Quota

## **Unit 4: Compute Services: EC2, lambda, Elastic Beanstalk**

1. AWS EC2
2. Creating an EC2 instance
3. Security Groups
4. SSH into your instance
5. EC2 instance connect
6. Shared responsibility model for EC2
7. EC2 placement groups
8. EC2 hibernate
9. AWS lambda
10. AWS Elastic Beanstalk

## **Unit 5: Storage services: S3, Instance Store, ELB, EFS**

1. AWS S3
2. S3 Security
3. S3 versioning
4. S3 replication
5. S3 lifecycle rules
6. S3 event notifications
7. EC2 Instance Store
8. AWS EBS
9. EBS Volume Types
10. EBS Multi-attach
11. EBS Encryption
12. AWS EFS
13. EBS vs EFS



## **Unit 6: High Availability and Scalability: Load balancing, Auto Scaling**

1. AWS ELB (Elastic Load Balancing)
2. Application Load Balancer
3. Network Load Balancer
4. Gateway Load Balancer
5. Cross Zone Load Balancing
6. ELB Sticky Sessions
7. ELB SSL Certificates
8. AWS ASG (Auto Scaling Group)
9. ASG Scaling Policies

## **Unit 7: Databases: RDS, Aurora, ElastiCache, DynamoDB, DocumentDB, Neptune**

1. Amazon RDS
2. RDS Read Replicas
3. RDS Multi AZ
4. RDS Security
5. RDS Proxy
6. Amazon Aurora
7. Aurora Backup and Monitoring
8. AWS ElastiCache
9. AWS DynamoDB
10. AWS DocumentDB
11. AWS Neptune

## **Unit 8: Networking & Content Delivery: Route 53, VPC, CloudFront, Global Accelerator**

1. AWS Route 53
2. Registering a domain
3. Creating DNS Records
4. Route 53 Health Checks
5. Routing Policy
6. Networking VPC
7. CIDR, Private vs Public IP
8. Subnets
9. Internet Gateway
10. Routing Tables
11. AWS NAT
12. AWS Network Firewall
13. AWS CloudFront
14. AWS Global Accelerator



## **Unit 9: Containers service: ECS, ECR, EKS, Fargate**

1. Amazon ECS
2. Creating ECS Cluster
3. ECS Auto Scaling
4. Amazon ECR
5. Amazon EKS
6. Amazon Fargate

## Unit 10: Serverless: Lambda, DynamoDB, API Gateway, Step functions

1. Serverless architecture
2. AWS Lambda
3. Lambda functions
4. Lambda Limits
5. Lambda in VPS
6. Amazon DynamoDB
7. Amazon API Gateway
8. AWS Step functions
9. Amazon Cognito

## Unit 11: Application integration: SQS, SNS, Kinesis, ActiveMQ

1. Messaging and Notifications
2. Amazon AQS
3. Standard Queue
4. Message Visibility Timeout
5. Long Polling
6. AWS SNS
7. Amazon Kinesis
8. Kinesis Data Streams
9. Kinesis Data Firehose
10. Amazon MQ



## Unit 12: Security Services: KMS, WAF, GuardDuty, Inspector, Shield, Macie

1. AWS Security
2. Amazon Encryption
3. AWS KMS (Key Management Service)
4. Encrypted AMI Sharing Process
5. AWS Secrets Manager
6. AWS ACM (Amazon Certificate Manager)
7. AWS WAF (Web Application Firewall)
8. Firewall Manager
9. AWS Shield
10. AWS GuardDuty
11. AWS Inspector
12. AWS Macie

## Unit 13: Data analytics services

1. Amazon Athena
2. Amazon Redshift
3. Amazon OpenSearch (ElasticSearch)
4. Amazon QuickSight
5. Amazon Glue
6. Lake Formation
7. Kinesis Data Analytics
8. Big data ingestion pipeline

## Unit 14: Machine learning services

1. Amazon Comprehend
2. Amazon Forecast
3. Amazon Kendra
4. Amazon Lex
5. Amazon Polly
6. Amazon Rekognition
7. Amazon SageMaker
8. Amazon Textract
9. Amazon Transcribe
10. Amazon Translate



## Unit 15: Monitoring, Management & Governance: CloudTrail, CloudWatch, Config

1. AWS Monitoring
2. AWS CloudWatch
3. CloudWatch Metrics
4. CloudWatch Logs
5. CloudWatch Agents
6. CloudWatch Alarms
7. AWS EventBridge (CloudWatch Events)
8. CloudWatch Insights
9. AWS CloudTrail
10. AWS Config

## Unit 16: Disaster Recovery & Migrations

1. Disaster recovery in AWS
2. AWS DMS (Data Migration Service)
3. AWS MGN (Application Migration Service)
4. AWS DataSync
5. AWS Transfer Family
6. AWS Snow Family: Snowcone, Snowball, Snowmobile
7. AWS Backup
8. VMware cloud on AWS

## Unit 17: AWS whitepapers & Other Services

1. AWS Well Architected Framework
2. AWS Trusted Advisor
3. AWS CloudFormation
4. AWS SES (Simple Email Service)
5. AWS Cost Explorer
6. SSM Session Manager
7. AWS Batch



## About the trainer

Carrying an experience of over 10 years, I pride myself for experiential learning approach. A training path that consists of visual learning, hands-on learning, project work, periodic assessments and mentorship. With us, you can be sure about getting the knowledge, certificate and placement.



■ **Ram Kumar**

- ✓ **University: UVCE, Bangalore**
- ✓ 100+ Corporate Batches
- ✓ Python Certified Professional
- ✓ Certified Kubernetes Administrator
- ✓ **Last Employer: Amazon, India**
- ✓ 3000+ Students
- ✓ AWS Certified Cloud Architect
- ✓ AWS Certified Machine Learning

## Top clients

