

AWS CLOUD COMPUTING PROFESSIONAL PROGRAM



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**KERALA INSTITUTE OF
DIGITAL EDUCATION**

The Pathway to Innovation

Duration: 2 Months | Level: Beginner to Advanced

Learning Outcomes

By the end of this program, you will be able to:

- Understand Cloud Computing models, architectures, and services
- Configure and manage AWS EC2 instances and networks
- Deploy and secure web applications using S3, RDS, and VPC
- Implement serverless computing with AWS Lambda and Beanstalk
- Monitor cloud infrastructure using CloudWatch and CloudTrail
- Automate tasks with AWS CLI and IAM roles
- Execute a real-world AWS Cloud Deployment Project

Course Roadmap (2 Months)

Month 1 — Cloud & Compute Fundamentals

- Linux Basics
- Operating Systems Overview
- Ubuntu Commands
- Introduction to Cloud Computing
- Cloud Concepts, Models & Benefits
- AWS Global Architecture & Marketplace
- AWS Account Setup
- Elastic Compute Cloud (EC2)
- EC2 Instance Types & Pricing
- Security Groups & Key Access
- Launch Ubuntu EC2 Instance (Website via User Data)
- EBS Volume Management
- AMI Creation, Region Copy & Auto Scaling
- Elastic Load Balancing
- Concepts & Load Balancer Types (ALB, NLB)



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Month 2 — Storage, Networking & Security

- AWS Storage Services
- S3, Glacier, EBS, EFS, FSx
- Object vs Block vs File Storage
- AWS Networking
- IP Addressing & Subnetting
- VPC Setup (Public/Private Subnets)
- Internet & NAT Gateway
- Route Tables, Security Groups, NACLs
- VPN, ENI, Elastic IP
- AWS Security & Identity
- IAM (Users, Groups, Roles, Policies)
- KMS – Managed & Customer Keys
- Access Management & Encryption
- AWS Command Line Interface (CLI)
- Installation, Configuration, and Use



Advanced Cloud & Monitoring

- Serverless Computing
- AWS Lambda
- Elastic Beanstalk
- Database Management
- RDS, DynamoDB, Redshift
- SQL vs NoSQL
- Domain & DNS (Route 53)
- DNS Records, Zone Files, Domains, and Subdomains
- Content Delivery & Backup
- CloudFront CDN
- DataSync, Storage Gateway, Snow Family, AWS Backup
- Monitoring & Logging
- AWS CloudWatch Components
- AWS CloudTrail Logging & Tracking



Hands-on LABS (20+ Practical Exercises)

- EBS Volume
- Custom AMI Creation
- Region-to-Region Volume Copy
- Auto Scaling
- Application Load Balancer
- S3 Static Website Hosting
- Presigned URL
- VPC Configuration (Public & Private)
- Internet & NAT Gateway Setup
- VPC Peering
- IAM User & Group Management
- KMS Setup
- AWS CLI Configuration
- Lambda Function Creation
- Elastic Beanstalk Deployment
- RDS Instance Configuration

- CloudFront Integration
- DataSync Setup
- AWS Backup
- CloudWatch & CloudTrail

Tools & Platforms

- AWS Management Console
- AWS CLI
- EC2, S3, RDS, VPC, CloudFront, Route 53
- CloudWatch, CloudTrail, KMS
- Elastic Beanstalk, Lambda, Auto Scaling
- Linux (Ubuntu)



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Career Opportunities

- Cloud Engineer
- AWS Solutions Architect
- DevOps Engineer
- Cloud System Administrator
- Cloud Support Associate / Analyst –
- Site Reliability Engineer (SRE)
- Data Engineer (AWS)
- Application Deployment Specialist
- Network Engineer (AWS Cloud)
- Freelance Cloud Consultant



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Key Highlights

- 100% Hands-on Cloud Training
- AWS Certified Trainers
- 20+ Cloud Exercises
- Capstone Project with Real Deployment
- Placement Assistance & Interview Support



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CERTIFICATIONS



K-IDE



STED COUNCIL




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THANK YOU !

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 TRIVANDRUM | KOCHI



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