

# LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)



Accredited by NAAC with 'A' Grade

ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AI & ML)**

## One Week Training Program on “Amazon Cloud Practitioner certification”

<b>Event Type</b>	: Workshop
<b>Date</b>	: 09/03/2026 TO 14/03/ 2026
<b>Venue</b>	: Seminar Hall, 2 <sup>nd</sup> Floor Vth Block
<b>Resource Person(s)</b>	: <b>Mr. Rajesh Babu Jangam</b> <b>Mr. N. Govind, Mrs. M. Pallavi</b> <b>Mr. S. Akhil, Mrs. N. Ruthika</b>
<b>Name of the Convener</b>	: <b>Dr. S. Jayaprada, Professor &amp; HOD,</b> <b>Dept. Of CSE (AI &amp; ML)</b>
<b>Name of the Co-ordinators(s)</b>	: <b>Mr. M. Pruthvi Raj, Sr. Asst.Prof, Dept of CSE (AI &amp; ML)</b>
<b>Targeted Audience</b>	: B.Tech VI Sem CSE (AI & ML) Students
<b>Total No. of Students</b>	: 42 Students

### Learning Objective of the event:

#### 1. Understand Cloud Fundamentals

- Gain knowledge of basic cloud computing concepts, benefits, and deployment models.

#### 2. Explore AWS Core Services

- Learn about key AWS services in computing, storage, networking, and databases.

#### 3. Familiarize with Security and Compliance

- Understand AWS shared responsibility model, security features, and compliance resources.

#### 4. Learn AWS Pricing and Billing

- Analyze AWS pricing models, cost management, and billing practices.

#### 5. Apply Cloud Best Practices

- Recognize AWS architectural principles and operational best practices for cloud adoption.

#### 6. Prepare for Certification

- Develop the required knowledge and confidence to attempt the AWS

Certified Cloud Practitioner Exam successfully.

## 7. Enhance Career Readiness

- Build foundational cloud skills that support further specialization in AWS and improve employability in cloud-based roles.

### Description of the event :

#### Day1: 09-03-2026

This workshop was inaugurated by Dr. K. Appa Rao, Principal of LBRCE along with the Dr. S. Jayaprada, HOD – CSE (AI & ML) and Convener, of the workshop, along with **J. Rajesh Babu, M. Pallavi, N. Govind, S. Akhil, N. Ruthika** Resource Persons. **Coordinator** of the Workshop, **Mr. M. Pruthvi Raj** welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this Workshop. The convener of the Workshop, **Dr. S. Jayaprada** started the speech by thanking LBRCE Management and congratulating all the participants who registered for this workshop. Then they thanked the Resource Persons and his Team, for accepting our request irrespective of his busy schedule. They added the importance of AWS workshop. They encouraged all the students to utilize this opportunity, which will help them in identifying/doing projects in Data Science.

#### Module 1: Cloud & AWS Foundations

- What is Cloud Computing
- Benefits of AWS Cloud
- AWS Global Infrastructure
- AWS Shared Responsibility Model
- Cloud Concepts Real-Life Use Cases

#### Module 2: Compute in the Cloud

- Introduction to Amazon EC2
- EC2 Instance Types
- Provisioning AWS Resources
- Launching EC2 Instances (Demo)
- Amazon EC2 Pricing
- Auto Scaling
- Elastic Load Balancing
- Messaging and Queuing



**Day2: 10-03-2026**

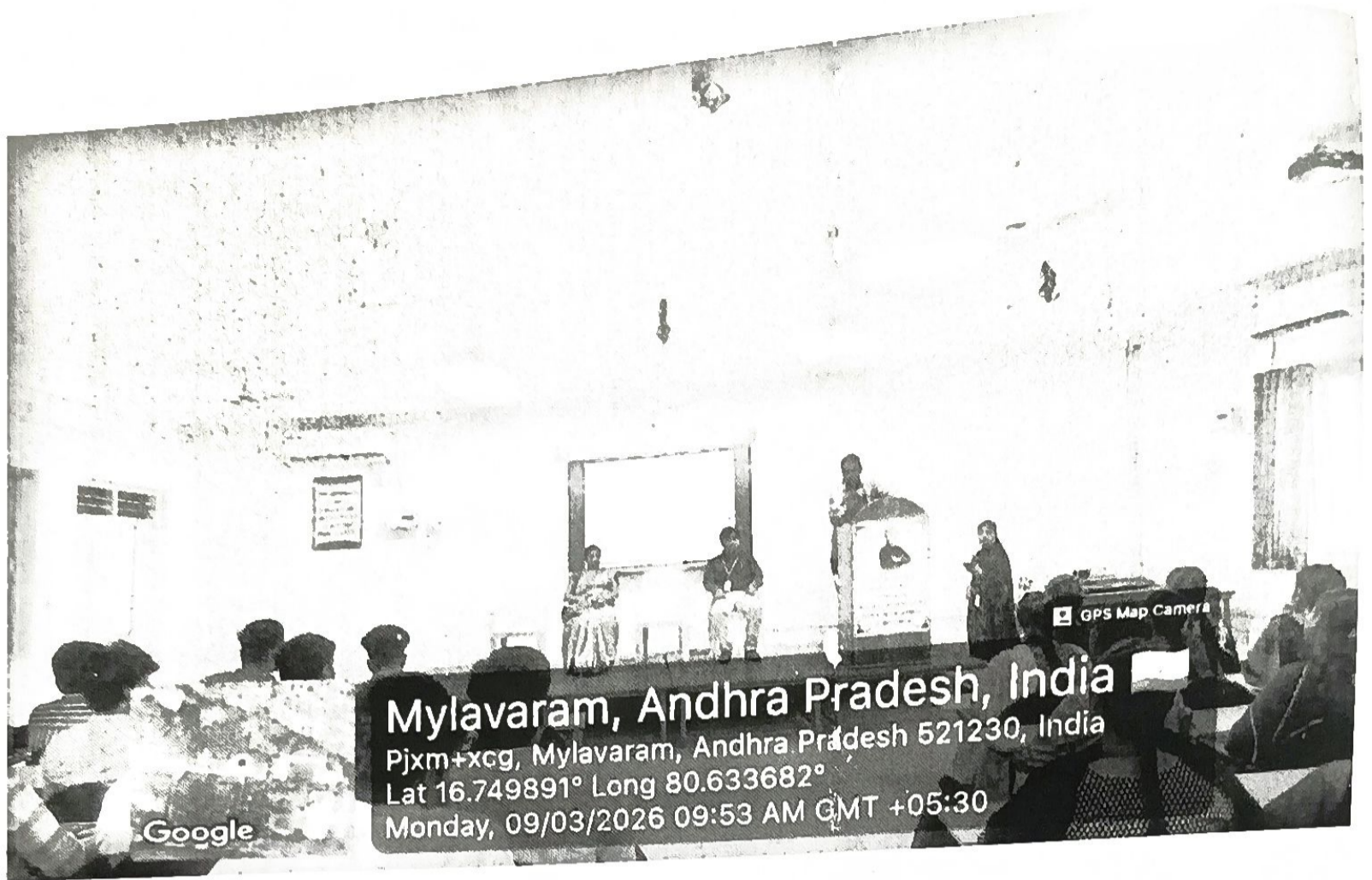
- Resource Person **Mr. Rajesh Babu** explained about the cloud Essentials.

### **Module 3: Modern Compute Services**

- Introduction to Server less Computing
- AWS Lambda
- Containers and Orchestration
- Additional Compute Services

### **Module 4: AWS Global Infrastructure**

- AWS Regions and Availability Zones
- Choosing AWS Regions
- Global Infrastructure Deep Dive
- Infrastructure and Automation



**Day3: 11-03-2026**

### **Module 5: Networking**

- Networking Basics
- Organizing AWS Resources
- Connecting to AWS Cloud
- Subnets, Security Groups and Network ACLs
- Amazon VPC Demo
- Global Networking
- Real-Life Network Architectures

### **Module 6: Storage Services**

- Block Storage (EBS, Instance Store)
- EBS Data Lifecycle
- Object Storage (Amazon S3)
- S3 Storage Classes and Lifecycle
- File Storage (EFS, FSx)
- AWS Storage Gateway
- Comparing Storage Services



**Day 4: 12-03-2026**

**Module 7: Databases**

- Relational Databases
- NoSQL Databases
- AWS Databases Demonstration
- In-Memory Caching Services
- Additional Database Services

**Module 8: AI/ML & Analytics**

- AI and ML Fundamentals
- AI/ML Services on AWS
- AWS AI/ML Solutions
- Generative AI Concepts
- AWS Generative AI Solutions
- Data Analytics Fundamentals
- Data Pipelines on AWS
- Real-Life AI/Analytics Use Cases

**Day 5: 13-03-2026**

**Module 9: AWS Security**

- Security Fundamentals in AWS
- AWS Shared Responsibility Model
- Identity and Access Management (IAM) – Users, Groups, Roles
- Multi-Factor Authentication (MFA)
- Preventing Unauthorized Access using IAM Policies

- Network and Application Protection
- Security Groups and Network ACLs
- Data Protection Methods (Encryption at Rest and In Transit)
- Overview of AWS Security Services (AWS Shield, AWS WAF)

### **Module 10: Monitoring & Governance**

- Importance of Monitoring AWS Resources
- Amazon CloudWatch (Metrics, Logs, and Alarms)
- AWS CloudTrail (Tracking API Activity)
- Compliance and Governance Concepts
- Auditing AWS Resources
- AWS Organizations Overview
- AWS Health Dashboard
- AWS Trusted Advisor (Security, Cost, Performance Checks)

**Day 6: 14-03-2026**

### **Module 11: Pricing & Support**

- AWS Pricing Concepts
- AWS Pricing Models (On-Demand, Reserved Instances, Spot Instances)
- AWS Billing Dashboard
- AWS Cost Management Tools
- AWS Support Plans Overview
- AWS Marketplace and AWS Partner Network
- Cost Optimization Best Practices

**15/03/2026 & 16/03/2026: Online**

Conducted online classes and covered the topics, which are missed due to less time in the offline classes. Such as

### **Module 12: Migration**

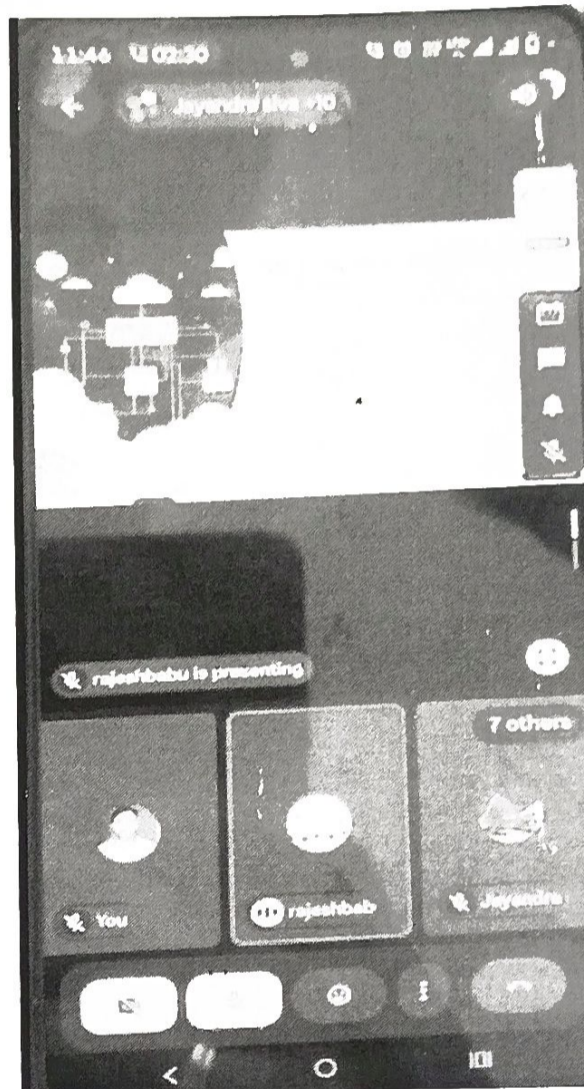
- Introduction to Cloud Migration
- AWS Cloud Adoption Framework (CAF)
- Seven Migration Strategies (7R Strategy Overview)
- Migration Services and Tools in AWS
- Database Migration Concepts
- Data Transfer Methods (Online vs Offline)

### **Module 13: AWS Well-Architected Framework**

- Introduction to AWS Well-Architected Framework
- AWS Specialized Services Overview
- Five Pillars of Well-Architected Framework
- AWS Specialized Services

- AWS Well-Architected Framework
- Five Pillars Overview
- Architecture Best Practices

### Real-Life Specialized Use Case

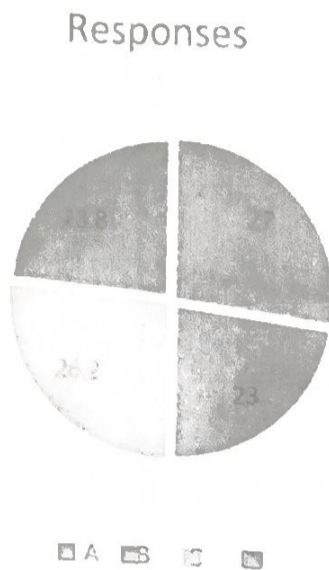


### Feedback & Suggestions:

- The training provided a **clear understanding of cloud fundamentals and AWS services.**
- Hands-on sessions and labs were **highly useful** for gaining practical exposure.
- The program structure was **well-paced** and easy to follow.
- Trainers were **knowledgeable and supportive**, clarifying doubts effectively.
- The training improved **confidence in attempting the AWS certification exam.**
- Include **more real-time project demonstrations** for deeper learning.
- Extend lab access after sessions for **self-practice.**
- Add **advanced AWS service topics** (e.g., AI/ML, Serverless, Containers) for interested learners.

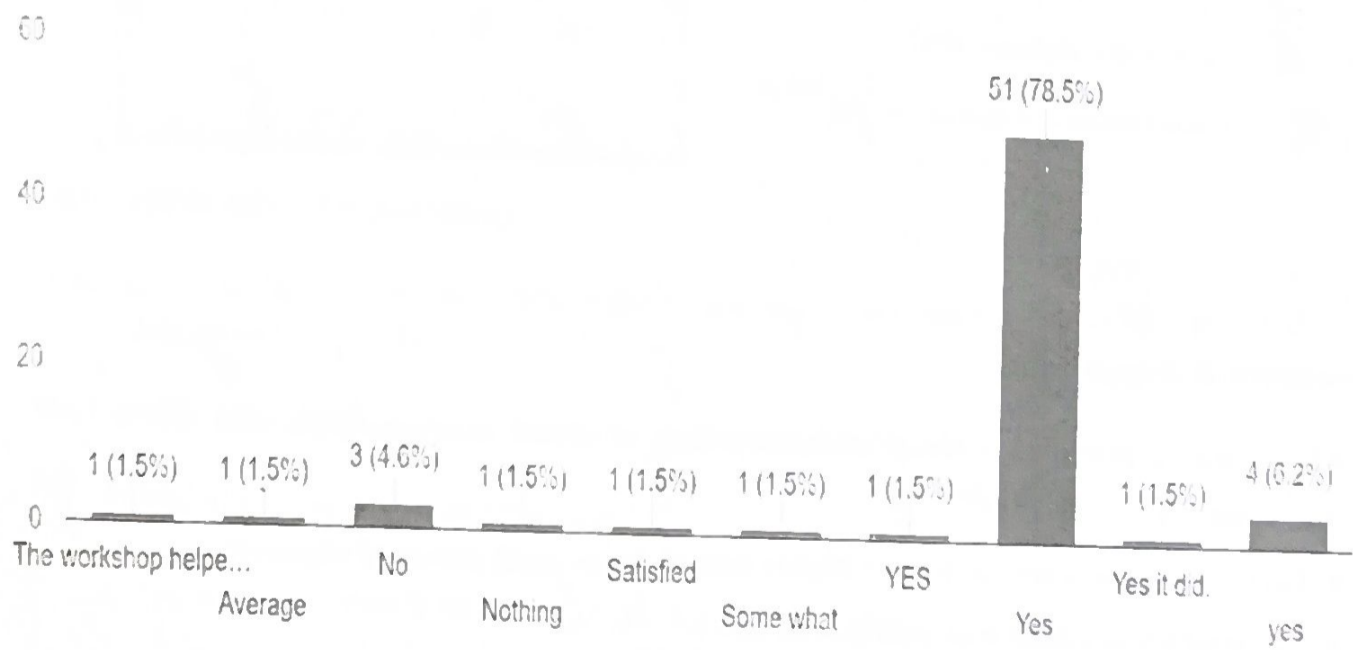
## FEEDBACK RESPONSES FROM ALL THE PARTICIPANTS:

All Sections – 92 responses



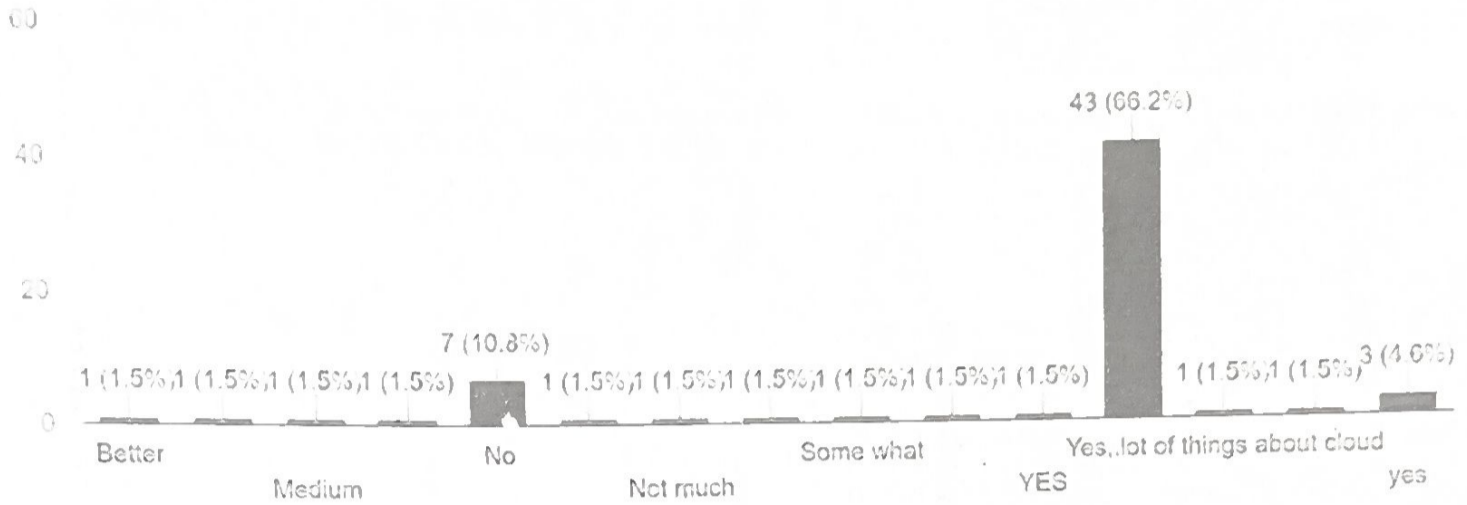
Did the workshop meet your learning outcomes ?

65 responses



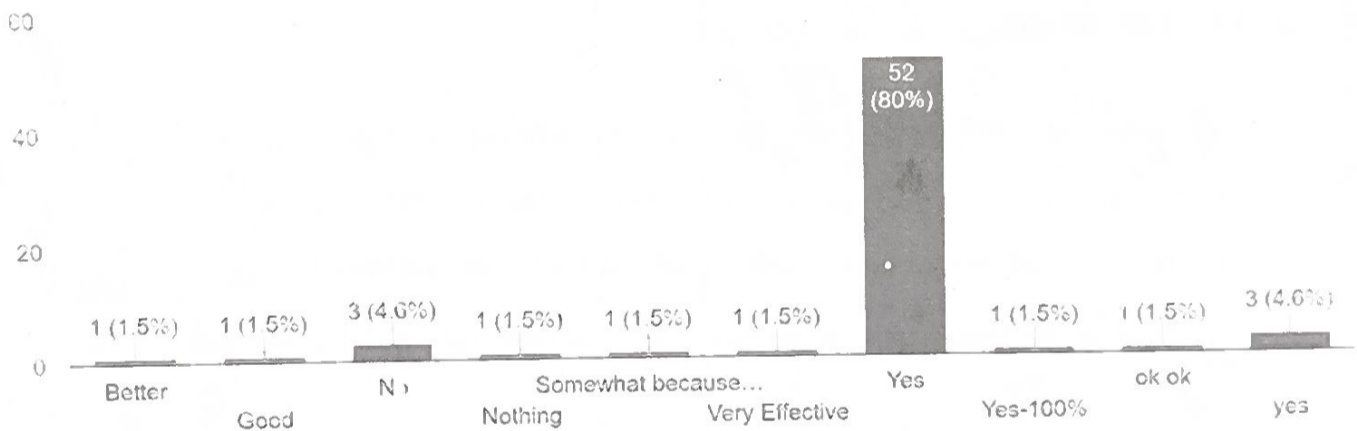
### Did the workshop hands-on sessions help you engaged and learn new things ?

65 responses



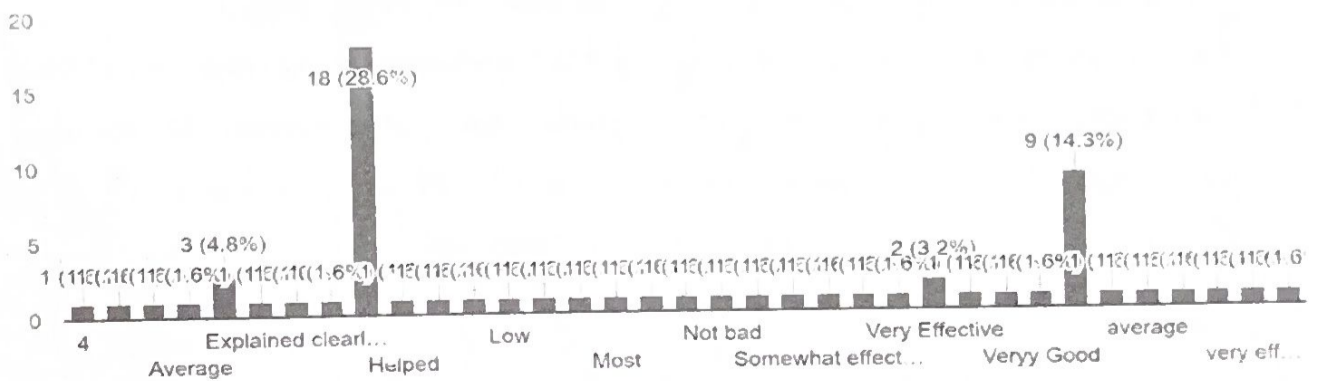
### Did the trainer effectively use real-world analogies to illustrate cloud services?

65 responses



### How effective was the mentor in helping you bridge the gap between theory and practical console execution?

63 responses








### Impact Analysis:

- Strengthened understanding of cloud computing concepts and AWS services.
- Improved readiness for the AWS Certified Cloud Practitioner exam.
- Enhanced hands-on technical skills through practical sessions and labs.
- Boosted career opportunities with a globally recognized certification.
- Helped participants contribute to organizational cloud adoption and migration.
- Promoted cost optimization, scalability, and security awareness in cloud use.
- Encouraged innovation and productivity with cloud-native solutions.
- Built a pipeline of cloud-ready professionals for future projects

  
Co-Ordinator

  
Head of The Department  
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