



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

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Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Three week training program on "Amazon Cloud Practitioner certification"

Event Type : Workshop

Date : 23rd June – 12th July 2025

Venue : SRK Hall, 2nd Floor Admin Block

Resource Person(s) : **Ms.Siri Chakkala**

Mr.Surya

Mr.Sundar Rajini

Name of the Convener : **Dr.S.Nagarjuna Reddy**, Professor & HoD, Department of CSE

Name of the Co-Convener : **Dr.D.Veeraiah**, professor, Dept. of CSE

Name of the Co-ordinators(s) : **Mrs.G.V. Rajya Lakshmi**, Sr. Asst.Prof, Dept of CSE
Mr. N.V.Naik, Sr.Asst.Prof, Dept of CSE
Ms. P. Sarala, Sr.Asst.Prof, Dept of CSE
Mr.O.Venkata siva, Asst.Prof, Dept of CSE
Mrs.B.Swathi, Sr.Asst.Prof, Dept of CSE
Mrs.M.Gayatri, Asst.Prof
Mr.P.Narasimha Rao, Asst.Prof

Targeted Audience : B.Tech V Sem CSE Students

Total No.of Students : 252 Students

Objective of the Event : The primary objective of the Three-week Training Program on Amazon Cloud Practitioner Certification is to equip participants with fundamental knowledge of cloud computing concepts, AWS core services, pricing models, security practices, and architectural principles. The training aims to prepare learners for the AWS Certified Cloud Practitioner examination, enabling them to gain a globally recognized credential. Additionally, the program focuses on enhancing participants' understanding of cloud adoption strategies, cost optimization, and industry best practices, thereby strengthening their technical foundation for advanced cloud learning and real-world applications

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: 23-06-2025

- Workshop was inaugurated on 23/06/2025 by Dr S.Nagarjuna Reddy, HOD – CSE, , Convener(s) of the workshop, along with Ms.Siri Chakkala &Mr.Surya &Mr.Sundar Rajini Resource Persons.
- Coordinators of the Workshop, **Mrs. G. V. Rajya Lakshmi, Ms. P. Sarala and Mr.N.V.Naik, Mr.O.V.Siva** 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.Nagarjuna Reddy started the speech by thanking LBRCE Management and congratulating all the participants who registered for this workshop. Then they thanked the Resource Person **Ms.Siri Chakkala &Mr.Surya &Mr.Sundar Rajini** 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.
- **Amazon Web Services (AWS)** is a leading cloud computing platform by Amazon.
- Provides **on-demand IT resources** like compute, storage, networking, and databases.
- Offers **pay-as-you-go pricing** with scalability and flexibility.
- Global infrastructure with **Regions and Availability Zones**.
- Core services include **EC2 (compute), S3 (storage), RDS (databases), and VPC (networking)**.
- Ensures **security, compliance, and reliability** for businesses of all sizes.



Day2: 24-06-2025

- Resource Person **Ms.Siri Chakkala** explained about the cloud Essentials.
- Cloud computing is the delivery of computing services—such as servers, storage, databases, networking, software, analytics, and intelligence—over the internet (“the cloud”) instead of relying on local servers or personal devices.
- **IaaS (Infrastructure as a Service):** Provides virtualized computing resources like servers and storage (e.g., AWS EC2).
- **PaaS (Platform as a Service):** Offers development platforms and tools for building applications (e.g., AWS Elastic Beanstalk).
- **SaaS (Software as a Service):** Delivers software applications over the internet (e.g., Amazon WorkMail).
- **Public Cloud:** Services offered over the internet to multiple customers.
- **Private Cloud:** Dedicated cloud infrastructure for a single organization.
- **Hybrid Cloud:** Combination of public and private cloud for flexibility.



Day3: 25-06-2025

- Resource Person **Mr.Surya** covered interacting with Cloud and storage files.
- Resource Persons team handled hands-on sessions on Compute as a Service and Pricing and support.
- A browser-based **graphical user interface (GUI)**.
- Easy to use for beginners.
- Example: Logging into **AWS Management Console** to create EC2 instances, S3 buckets, etc.
- Stores files as **objects** (data + metadata + unique ID).
- Best for images, videos, documents, backups, big data.
- Virtually **unlimited storage capacity**.
- Highly durable (99.999999999% durability).
- Accessible anywhere over the internet.





Day 4: 26-06-2025

- Resource Person **Mr.Surya** covered Networking concepts.
- **Virtual Private Cloud (VPC)**: Private network inside AWS to launch and manage resources securely.
- **Subnets**: Divide VPC into smaller networks – **Public** (internet-facing) and **Private** (internal only).
- **Internet Gateway (IGW)**: Connects VPC to the internet for public access.
- **NAT Gateway / NAT Instance**: Allows private subnet resources to access the internet without being exposed.
- **Route Tables**: Define the rules for directing network traffic within VPC.
- **Security Groups**: Instance-level virtual firewalls controlling inbound and outbound traffic.
- **Network ACLs (NACLs)**: Subnet-level firewalls for additional security.
- **Elastic Load Balancer (ELB)**: Distributes incoming traffic across multiple instances for high availability.
- **Amazon Route 53**: DNS service to route users to applications with health checks and low latency.
- **VPC Peering**: Connects two VPCs for secure private communication.
- **VPN Connection**: Secure tunnel between on-premises data centers and AWS cloud.



Day 5: 27-06-2025

- Resource Person **Mr.Surya** explained various AWS Cloud data bases and Security Concepts.
- **Amazon RDS** – Managed relational database (MySQL, PostgreSQL, Oracle, SQL Server, MariaDB).
- **Amazon Aurora** – High-performance relational DB, MySQL/PostgreSQL compatible.
- **Amazon DynamoDB** – Fully managed NoSQL database, key-value & document model.
- **Amazon Redshift** – Data warehouse for large-scale analytics.
- **Amazon ElastiCache** – In-memory caching (Redis, Memcached) for fast performance.
- **Amazon Neptune** – Graph database for connected data (social networks, fraud detection).
- **Amazon DocumentDB** – Managed document database, MongoDB-compatible.
- **Shared Responsibility Model** – AWS secures infrastructure; customer secures data & access.
- **IAM (Identity and Access Management)** – Manage users, groups, roles, and permissions.
- **Security Groups** – Instance-level firewall (controls inbound/outbound traffic).
- **NACLs (Network ACLs)** – Subnet-level firewall for extra protection.
- **AWS KMS** – Encryption key management service.
- **AWS Shield** – Protects against DDoS attacks.



Mylavaram, Andhra Pradesh, India

L. B. Reddy Nagar, Mylavaram, Andhra Pradesh 521230, India

Lat 16.748871° Long 80.634591°

27/06/2025 10:45 AM GMT +05:30

Day 6: 28-06-2025

- Resource Person **Mr.Surya** explain on Monitoring and shared responsibility models.
- **Amazon CloudWatch** – Monitors metrics, logs, and sets alarms for AWS resources.
- **AWS CloudTrail** – Records API calls and user activities for auditing.
- **AWS Config** – Tracks resource configurations and compliance.
- **AWS Trusted Advisor** – Gives best-practice checks for cost, security, and performance.
- **Benefits** – Ensures availability, detects failures, improves security, and controls cost.
- Protects physical data centers, hardware, networking, and global infrastructure.
- Manages data, applications, access controls, configurations, and encryption.



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

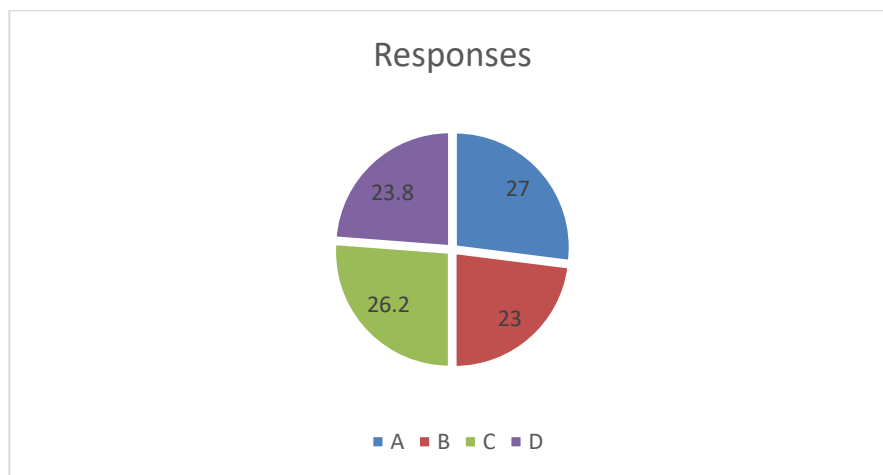
Feedback & Suggestions:

- 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.
- Provide **mock tests and quizzes** to help with exam preparation.
- Extend lab access after sessions for **self-practice**.
- Add **advanced AWS service topics** (e.g., AI/ML, Serverless, Containers) for interested learners.

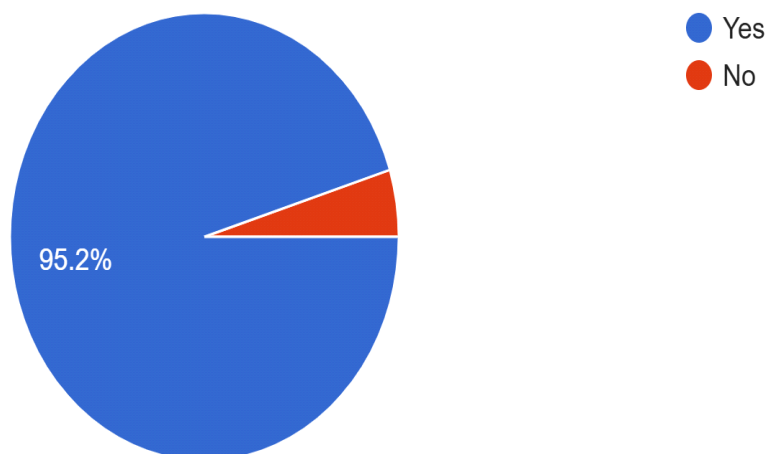
FEEDBACK RESPONSES FROM ALL THE PARTICIPANTS:

All Sections - 252responses



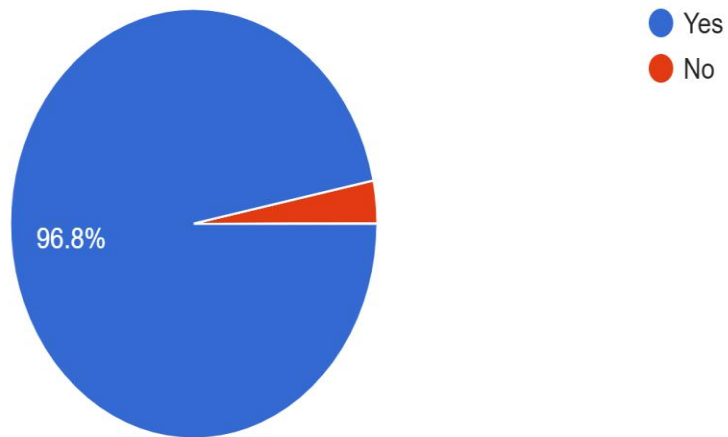
Did the workshop meet your learning outcomes?

248 responses



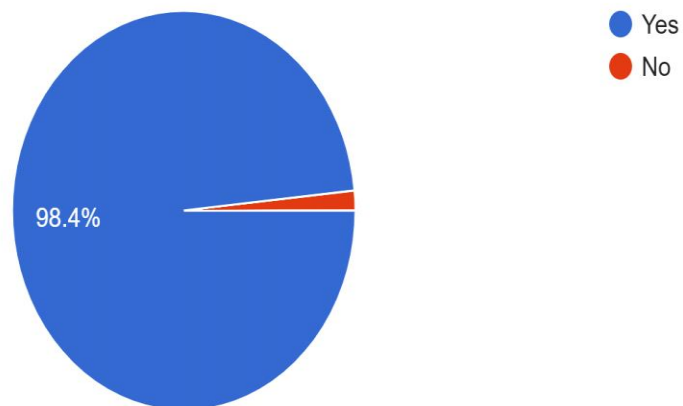
Did you feel engaged and actively involved in the workshop activities and discussions?

248 responses



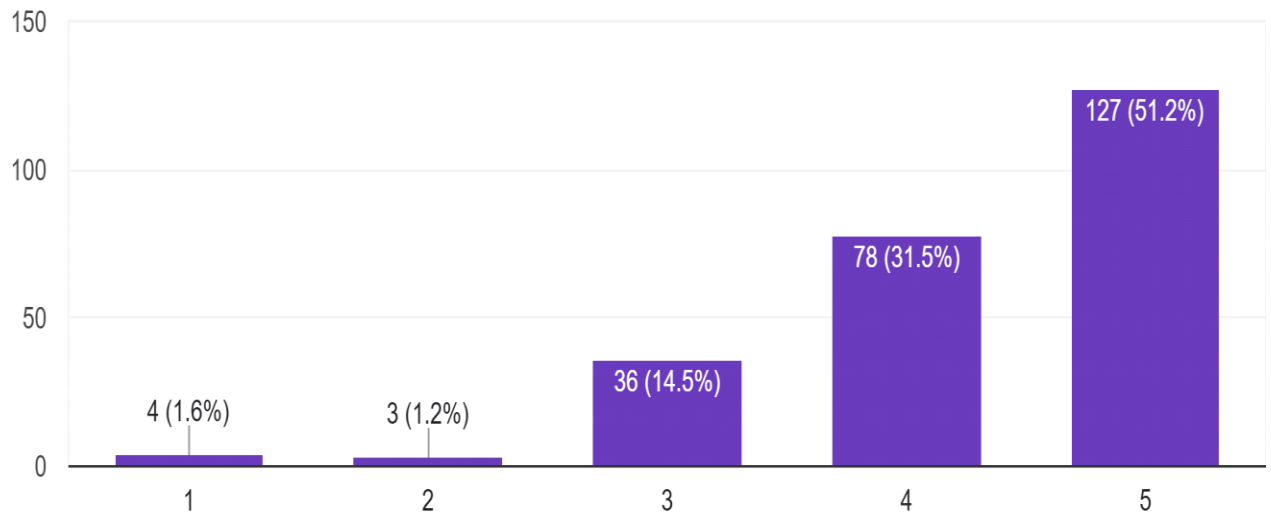
Did the workshop's hands-on sessions help you engage and learn new things ?

248 responses



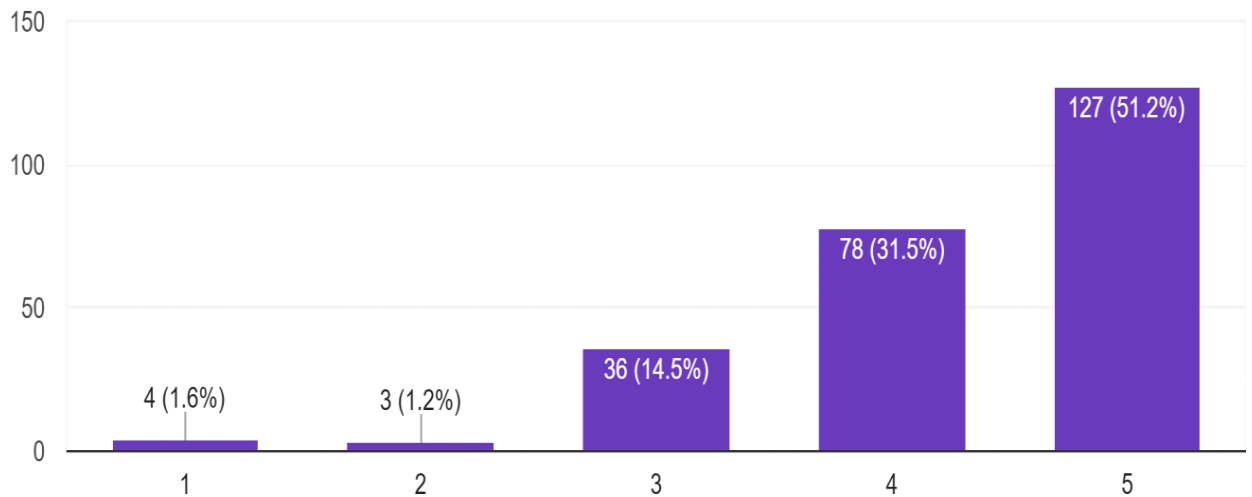
Overall feedback on the workshop

248 responses



Overall feedback on the workshop

248 responses



SUGESSTIONS:

- Provide **mock tests and practice quizzes** to boost exam preparation.
- Extend **hands-on lab access** for more self-practice after sessions.
- Include **real-world case studies and project demonstrations**.

- Offer study guides, cheat sheets, and recorded sessions for revision.

OUTCOME OF THE EVENT:

- Gained fundamental knowledge of cloud computing and AWS global infrastructure.
- Understood core AWS services (compute, storage, networking, databases, and security).
- Learned about AWS pricing, billing, and cost management models.
- Acquired hands-on skills in managing AWS resources through console and CLI.
- Improved awareness of security, compliance, and shared responsibility model.
- Prepared participants for the AWS Certified Cloud Practitioner exam.
- Enhanced career opportunities in cloud-related roles.
- Built a foundation for advanced AWS certifications and cloud projects.

PRESS REPORT:

యల్.బి.ఆర్.సి.ఈ లో “అమేజన్ వెబ్ సర్వీసెస్”పై శిక్షణా కార్యక్రమం



మైలవరం, (వాస్తవ నయనమ్): స్థానిక లక్ష్మీరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో కంప్యూటర్ సైన్స్ అండ్ ఇంజనీరింగ్ విభాగం మరియు ఆర్టిఫిషియల్ ఇంటెలిజెన్స్ అండ్ డేటా సైన్స్ విభాగం వారి సంయుక్త ఆధ్వర్యంలో 23-06-2025 నుండి 12-07-2025 “అమేజన్ వెబ్ సర్వీసెస్”పై మూడు వారాల శిక్షణా కార్యక్రమాన్ని నిర్వహిస్తున్నారు. ఈ శిక్షణ కార్యక్రమం విద్యార్థులకు క్లౌడ్ కంప్యూటింగ్లో ప్రాజెక్ట్ ఆధారిత అభ్యాసం ద్వారా నైపుణ్యాలను అభివృద్ధి చేయడానికి ఉద్దేశించబడింది. ఇందులో ఇండస్ట్రీ భాగస్వామి అయిన Smart Bridge సంస్థతో సహకారంగా శిక్షణ ఇవ్వబడుతోంది. ఈ కార్యక్రమానికి శ్రీ. సి హెచ్ యుక్తేష్, చైర్మన్ అండ్ అకాడమిక్ ఇనిషియేటివ్, Smart Bridge వారు రిసోర్స్ పర్సన్ గా వ్యవహరించారు ఈ సందర్భంగా



ఆయన మాట్లాడుతూ, ఆధునిక టెక్నాలజీ రంగంలో క్లౌడ్ కంప్యూటింగ్ యొక్క ప్రాధాన్యతను తెలియజేస్తూ, విద్యార్థులు అంతర్జాతీయ ప్రమాణాలు కలిగిన నైపుణ్యాలను పొందాల్సిన అవసరాన్ని వివరించారు. ఈ శిక్షణా శిబిరానికి డా.ఎస్.నాగార్జున రెడ్డి, CSE HOD మరియు డా.పి.భగత్, AI&DS HOD కన్వీనర్లుగా వ్యవహరిస్తున్నారు. అలాగే డా.డి.వీరయ్య, CSE విభాగానికి చెందిన ప్రొఫెసర్ గా సహకార కన్వీనర్ బాధ్యతలు నిర్వహిస్తున్నారు. ఈ కార్యక్రమానికి CSE మరియు AI&DS విభాగాలకు చెందిన అధ్యాపకుల చురుకైన సమన్వయంతో, ఈ శిక్షణా కార్యక్రమం విజయవంతంగా నిర్వహించబడుతోంది. విద్యార్థులు ఈ అవకాశాన్ని సద్వినియోగం చేసుకుని AWS సాంకేతిక పరిజ్ఞానంతో తమ నైపుణ్యాలను మెరుగుపరచుకోనున్నారు.

Convener