Welcome to SET:
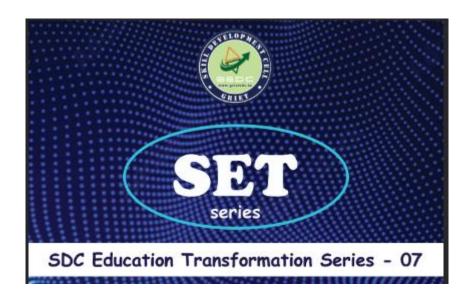
SDC Education Transformation, an ecosystem dedicated to conducting industry-relevant workshops.

Our hands-on approach supplements academic learning, empowering students with practical skills beyond the curriculum.

We encourage student-led workshops, providing full support from topic selection to preparation.

Each workshop concludes with a capstone project, allowing participants to apply their knowledge.

Upon completion, participants receive recognition through awards and certificates, enhancing their professional credentials.

Join us in redefining education and shaping future industry leaders.

AWS Cloud Essentials Boot Camp

(A 3-Day Hands-on Learning Experience)

In association with

DEPARTMENT OF INFORMATION TECHNOLOGY

Amazon Web Services (AWS) is the world's leading cloud computing platform, offering scalable and secure cloud solutions. It provides over 200 fully featured services, including computing, storage, databases, AI, and analytics. AWS helps businesses reduce infrastructure costs, improve agility, and scale globally. It is widely used across industries, from startups to enterprises, including Netflix, Airbnb, and NASA. With its pay-as-you-go pricing and robust security, AWS powers millions of applications worldwide.

Instructor : Dr.G.S.Bapiraju, AWS Accredited Instructor, Professor & Dean (Internships)

Program details:

SET Series   : 07
Topic   : AWS Cloud Essentials Boot Camp
Date   : 25.03.25 to 27.03.25 (3 Days)
Duration   : 9:30 am to 3:30 pm
Fee   : Rs.350/- (Account details and Scan code are given in the last page).
Laptops   : Students should bring their own Laptops.
Lunch   : Executive Lunch provided.

Upon successful completion Students will receive:

1. Boot Camp Participation Certificate
2. AWS Academy Course Certificate
3. 50% Discount Voucher for AWS Global Certification Exam
4. AWS Tech Alliance Placement Support

AGENDA:

Day 1 (25.03.25)

List of topics covered:

Course Introduction
• Course objectives and overview
• AWS Certification exam information
• AWS documentation
• What's new at AWS

Module 1: Cloud Concepts Overview

• Introduction to cloud computing
• Advantages of the cloud
• Introduction to AWS
• Moving to the AWS Cloud
• Activity: Sample Exam Question
• Knowledge check

Module 2: Cloud Economics and Billing

• Fundamentals of pricing
• Total cost of ownership
• Activity: Simple Monthly Calculator
• Delaware North case study
• AWS Organizations
• AWS billing and cost management
• Billing dashboards
• Technical support models
• Activity: Support Plan Scavenger Hunt
• Activity: Sample Exam Question
• Knowledge check

Module 3: AWS Global Infrastructure Overview

• AWS global infrastructure
• Demo: AWS global infrastructure
• AWS services and service categories

• Activity: AWS Management Console Clickthrough
• Activity: Sample Exam Question
• Knowledge check

Day 2 (26.03.25)

Module 4: Cloud Security

• AWS shared responsibility model
• Activity: AWS Shared Responsibility Model
• AWS IAM
• Demo: AWS IAM Console
• Securing a new AWS account
• Lab: Introduction to AWS IAM
• Securing accounts
• Securing data
• Working to ensure compliance
• Activity: Sample Exam Question
• Knowledge check

Module 5: Networking and Content Delivery

• Networking basics
• Amazon VPC
• VPC networking
• Activity: Label This diagram
• Demo: Amazon VPC Console
• VPC security
• Activity: Design a VPC
• Lab: Build a VPC and Launch a Web Server
• Route 53
• CloudFront
• Activity: Sample Exam Question
• Knowledge check

Module 6: Compute

• Compute services overview
• Amazon EC2 part 1
• Amazon EC2 part 2

- Amazon EC2 part 3
- Demo: Amazon EC2
- Lab: Introduction to Amazon EC2
- Activity: Amazon EC2 Versus Managed Services
- Demo: Amazon EC2 Part Console
- Amazon EC2 cost optimization
- Container services
- Introduction to AWS Lambda
- Activity: AWS Lambda
- Introduction to AWS Elastic Beanstalk
- Activity: AWS Elastic Beanstalk
- Activity: Sample Exam Question
- Knowledge check

Module 7: Storage

- AWS EBS
- Demo: Amazon Elastic Block Store Console
- Lab: Working with EBS
- AWS S3
- Demo: AWS S3 Console
- AWS EFS
- Demo: AWS EFS Console
- AWS S3 Glacier
- Demo: AWS S3 Glacier Console
- Activity: Storage Technology Selection
- Activity: Sample Exam Question
- Knowledge check

Day 3 (27.03.25)

Module 8: Databases

- Amazon RDS
- Demo: Amazon RDS Console
- Lab: Build a Database Server
- Amazon DynamoDB
- Demo: Amazon DynamoDB
- Amazon Redshift

• Amazon Aurora
• Activity: Database case study
• Activity: Sample Exam Question
• Knowledge check

Module 9: Cloud Architecture

• AWS Well-Architected Framework design principles
• Activity: AWS Well-Architected Framework Design Principles
• Operational excellence
• Security
• Reliability
• Performance efficiency
• Cost optimization
• Reliability & high availability
• AWS Trusted Advisor
• Activity: Interpret AWS Trusted Advisor Recommendations
• Activity: Sample Exam Question
• Knowledge check

Module 10: Automatic Scaling and Monitoring

• Elastic Load Balancing
• Activity: Elastic Load Balancing
• Amazon CloudWatch
• Activity: Amazon CloudWatch
• Amazon EC2 auto scaling
• Lab: Scale & Load Balance your Architecture
• Activity: Sample Exam Question
• Knowledge check

<div align="center">**OUTCOME & OPPORTUNITIES.**</div>

Completing the **AWS Cloud Foundations** course opens various opportunities in cloud computing and IT. Here are some key careers and learning pathways:

1. Career Opportunities

- **Cloud Support Associate** – Entry-level role assisting with cloud services and troubleshooting.
- **Cloud Operations Engineer** – Managing and monitoring cloud resources.
- **DevOps Intern** – Supporting CI/CD pipelines and automation.
- **IT Support Specialist** – Handling cloud-based IT infrastructure.
- **Junior Cloud Engineer** – Working on cloud deployments and configurations.

2. Certification Pathway

- After AWS Cloud Foundations, you can pursue **AWS Certified Cloud Practitioner (CLF-C02)** to validate your knowledge.
- Next, you can specialize in **AWS Solutions Architect Associate, AWS Developer Associate, or AWS SysOps Administrator Associate** based on your interests.

3. Advanced Learning & Specializations

- **Cloud Security & Compliance** – Learning about security best practices on AWS.
- **AI & Machine Learning on AWS** – Expanding into AI-driven cloud services.
- **Cloud DevOps & Automation** – Specializing in infrastructure as code (IaC) with tools like Terraform and AWS CloudFormation.
- **Data Analytics & Big Data** – Learning services like AWS Redshift, Glue, and Athena.

4. Higher-Paying Job Roles (After Further Specialization)

- **AWS Solutions Architect** – Designing scalable and resilient cloud solutions.
- **Cloud Security Engineer** – Ensuring compliance and security in cloud environments.
- **Cloud DevOps Engineer** – Managing cloud-based CI/CD pipelines and automation.
- **Data Engineer** – Working with AWS analytics and big data services.

Registration

Link: https://forms.gle/tRbSZNcz75josKxdA

Or

Scan QR Code:

Dr.G.S.Bapi Raju
Chief Instructor, SDC

REGISTRATION FEE: **Rs.350/-**
(Pay through bank transfer or scan QR code).

Bank Transfer: A/C details:	SCAN & PAY USING ANY BHIM UPI APP
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Bank : Punjab National Bank	
Account No : 1882102100000041	
IFSC : PUNB0188210	
Branch : GRIET Campus, Bachupally.	9491607789m@pnb
	MERCHANT: GRIET SKILL DEVELOPMENT CELL