

NS3EDU – AWS Cloud Computing Curriculum Industry-Oriented | Job-Focused | Hands-On Training

Program Overview

The NS3EDU AWS Cloud Computing Program is designed to build strong cloud fundamentals to advanced AWS architecture and deployment skills. This curriculum focuses on AWS core services, cloud networking, security, automation, real-world projects, and certification & interview preparation, making learners industry-ready AWS Cloud Engineers.

LEVEL 1: AWS Cloud Fundamentals (Beginner Level)

Part 1: Introduction to Cloud & AWS

- What is Cloud Computing
- Cloud Computing Benefits
- Cloud Service Models (IaaS, PaaS, SaaS)
- Cloud Deployment Models
- Introduction to AWS
- AWS Global Infrastructure

Part 2: AWS Core Services Overview

- AWS Management Console
- AWS Regions & Availability Zones

- AWS Pricing & Billing Basics
- AWS Free Tier

Part 3: Compute Services (EC2)

- Introduction to EC2
- EC2 Instance Types
- AMI & Key Pairs
- Security Groups
- EC2 Launch & Management

Part 4: Storage Services

- Amazon S3
- Buckets & Objects
- Storage Classes
- Versioning & Lifecycle Policies
- Introduction to EBS

Part 5: Identity & Access Management (IAM)

- IAM Users, Groups & Roles
- IAM Policies
- MFA & Best Practices
- Shared Responsibility Model

LEVEL 2: AWS Cloud Engineer (Intermediate Level)

Part 6: AWS Networking (VPC)

- VPC Overview
- Public & Private Subnets
- Route Tables
- Internet Gateway & NAT Gateway
- Network ACL & Security Groups

Part 7: Load Balancing & Auto Scaling

- Elastic Load Balancer (ELB)
- Application Load Balancer
- Auto Scaling Groups
- High Availability Design

Part 8: Databases in AWS

- Amazon RDS
- Database Engines
- Backup & Snapshot
- Multi-AZ Deployment
- Introduction to DynamoDB

Part 9: Monitoring & Logging

- Amazon CloudWatch
- Metrics & Alarms
- Logs & Events
- AWS CloudTrail

Part 10: AWS Security

- AWS Security Best Practices
- Encryption at Rest & In Transit

- AWS KMS
- AWS WAF & Shield (Intro)

LEVEL 3: Advanced AWS & Cloud Architecture (Professional Level)

Part 11: Advanced Storage & Content Delivery

- EBS vs EFS
- S3 Advanced Features
- Amazon CloudFront
- Data Backup Strategies

Part 12: Serverless Computing

- Introduction to Serverless
- AWS Lambda
- API Gateway
- Event-Driven Architecture

Part 13: Automation & Infrastructure as Code

- AWS CLI
- AWS SDK Basics
- Infrastructure as Code Overview
- Introduction to Terraform / CloudFormation

Part 14: High Availability & Disaster Recovery

- Fault-Tolerant Architecture
- Backup & DR Strategies
- Multi-Region Deployment
- Cost Optimization

Part 15: Real-World AWS Projects

- Hosting Website on AWS
- Scalable Web Application
- Secure VPC Design
- AWS Migration Project
- Cost Optimization Project

Part 16: Career & Certification Preparation

- AWS CloudEngineer Roles
- AWS Certification Overview (Cloud Practitioner / Solutions Architect)
- Interview Questions & Scenarios
- Resume & Project Guidance
- Mock Interviews

Tools & Technologies Covered

- AWS Management Console
- EC2, S3, IAM, VPC
- RDS, CloudWatch
- Lambda
- AWS CLI

- Terraform (Intro)

Outcome

Learners become job-ready AWS Cloud Engineers, capable of deploying, securing, monitoring, and managing cloud infrastructure on AWS with real-world experience.



YOUR FUTURE OUR RESPONSIBILITY



Free consulting



Get trained with certified trainers



24X7 Lab access



Get placed



Employability enhancement program



info@ns3edu.com
www.ns3edu.com
+91-9821442746
3rd Floor, B9, Block B, Old DLF Colony, Sector 14, Gurugram, Haryana 122007



Network Security



CYBER SECURITY



Cloud Service



Full Stack
WEB DEVELOPMENT



DIGITAL
MARKETING



data science



AI ML
LEARNING