

# **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 Cloud Engineer 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.



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