



KIDS & TEENS FREELANCING TRAINING INSTITUTE

Amazon Web Services (AWS) Course Outline

Module 1: What is AWS?

- Introduction to cloud computing and AWS as a leading cloud platform
 - Real-life example: Hosting a website or app using AWS services
 - Key benefits of cloud computing: scalability, flexibility, cost-efficiency
 - Overview of AWS global infrastructure: regions and availability zones
 - Activity: Explore the AWS Management Console
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Module 2: Core AWS Services

- Introduction to key AWS services: EC2, S3, RDS, Lambda
 - Real-life example: Storing images in S3 or hosting an app on EC2
 - Understanding how each service supports cloud-based apps
 - Activity: Launch a virtual server (EC2 instance)
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Module 3: AWS Storage & Databases

- Overview of storage services: S3, EBS, Glacier
 - Overview of AWS databases: RDS, DynamoDB
 - Real-life example: Storing backup files and customer data
 - Activity: Upload files to S3 and create a simple DynamoDB table
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Module 4: AWS Networking & Security

- Introduction to VPC, IAM, and security best practices
- Real-life example: Creating secure environments for web apps

- Managing permissions using IAM roles and policies
 - Activity: Set up a secure user and restrict access
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Module 5: Automation & Monitoring in AWS

- Introduction to CloudWatch, Auto Scaling, and CloudFormation
 - Real-life example: Automatically restarting a failed instance
 - Monitoring resources and automating deployments
 - Activity: Set up a CloudWatch alarm
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Module 6: Serverless Computing with AWS

- Understanding Lambda, API Gateway, and serverless architecture
 - Real-life example: Building a function that sends emails on user signup
 - Introduction to event-driven apps
 - Activity: Deploy a Lambda function with API Gateway
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Module 7: Real-World AWS Applications

- Case studies: how companies use AWS (Netflix, NASA, startups)
 - Hosting websites, managing big data, using AI services
 - Real-life example: Launching a startup with AWS tools
 - Activity: Simulate deploying a small web app using AWS
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Module 8: AWS Certifications & Career Path

- Overview of AWS certifications: Cloud Practitioner to Solutions Architect
 - Skills and learning paths for AWS careers
 - Real-life example: A day in the life of an AWS cloud engineer
 - Activity: Create a career roadmap using AWS resources
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Bonus Materials

- AWS glossary and service map
- Practice labs and mini projects
- AWS Free Tier usage tips

- Official links to AWS training resources
- Certificate of Completion for AWS