

AWS Academy



Dear Nagresh Kumar,

Welcome to AWS Academy!

R.D. Engineering College has been approved to join the AWS Academy program with Amazon Internet Services Private Limited ("AISPL").

AWS Academy member institutions are responsible for nominating educators to earn AWS Academy accreditation and become authorized to teach AWS Academy courses.

The accreditation process is a self-paced, professional development program delivered online with support from the AWS Academy Technical Program Management team.

AWS Academy membership is site based and this application grants membership to the following site*:

Main Campus

8 th KM Mile Stone from Ghaziabad National Highway(NH) No.58, Delhi-Meerut Road , Duhai
Ghaziabad, Uttar Pradesh 201206
India

AWS Academy Membership is governed by a comprehensive set of rules and criteria. For example:

- Only AWS Academy Accredited Educators may deliver AWS Academy courseware.
- There must be at least one AWS Academy Accredited Educator per AWS Academy course.

For more details and a complete list of criteria, please see the AWS Academy Terms & Conditions and the AWS Academy Program Guide.

To access courseware and begin learning, please log in to the AWS Academy portal:

<https://www.awsacademy.com/SiteLogin>.

An AWS Academy Program Manager will reach out to you to answer any questions and further support you.

We look forward to your participation and wish your institution, educators, and students success in their cloud computing and AWS journey.

Sincerely,
Vikrant Satsangi
The AWS Academy Team


Director
R.D. Engineering College
Duhai, Ghaziabad



Course Outline

AWS Academy Cloud Foundations

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Course version

This course outline applies to version 2.0 of *AWS Academy Cloud Foundations* in English. Details of changes from version 1.0 are available in the Instructor Guide.

Description

AWS Academy Cloud Foundations is intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support.

Curriculum objectives

Upon completion of this course, students will be able to do the following:

- Define the AWS Cloud
- Explain the AWS pricing philosophy
- Identify the global infrastructure components of AWS
- Describe the security and compliance measures of the AWS Cloud, including AWS Identity and Access Management (IAM)
- Create a virtual private cloud (VPC) by using Amazon Virtual Private Cloud (Amazon VPC)
- Demonstrate when to use Amazon Elastic Compute Cloud (Amazon EC2), AWS Lambda, and AWS Elastic Beanstalk
- Differentiate between Amazon Simple Storage Service (Amazon S3), Amazon Elastic Block Store (Amazon EBS), Amazon Elastic File System (Amazon EFS), and Amazon Simple Storage Service Glacier (Amazon S3 Glacier)
- Demonstrate when to use AWS database services, including Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB, Amazon Redshift, and Amazon Aurora
- Explain the architectural principles of the AWS Cloud
- Explore key concepts related to Elastic Load Balancing, Amazon CloudWatch, and Amazon EC2 Auto Scaling

Duration

Approximately 20 hours, when delivered synchronously by an educator. Detailed timings are provided below. Actual delivery times will vary from class to class and depending on the delivery format. AWS Academy Cloud Foundations must be delivered over a period of at least two weeks.

Intended audience

This introductory-level course is intended for students attending AWS Academy member institutions.

Student prerequisites

To ensure success in this course, students should have the following:

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- General IT technical knowledge
- General IT business knowledge

Delivery methods

This course can be delivered in person with synchronous lectures or with digital training models that students can complete independently.

Educator prerequisites

This course does not have any prerequisites for educators. However, prior to facilitating this course, educators are recommended to complete this course, complete the AWS Academy Cloud Foundations course, and pass the AWS Certified Cloud Practitioner exam.

Learning resources

- Lecture materials
- Online multiple-choice knowledge checks
- Lab exercises
- Digital training (optional)
- Video introductions
- Video demos
- Example solutions

Course timing

This table provides the suggested durations for all course activities. Note that the total classroom time for all the modules in this course is 1,200 (20 hours). Items that are not applicable are marked NA.

Module Title	Lecture (Minutes)	Activity/Lab/Demo (Minutes)	Knowledge Check (Minutes)	Total Module (Minutes)
Course Introduction	35	NA	NA	35
Module 1: Cloud Concepts Overview	45	5	10	60
Module 2: Cloud Economics and Billing	45	45	10	100
Module 3: AWS Global Infrastructure Overview	25	35	10	70
Module 4: Cloud Security	45	60	10	115
Module 5: Networking and Content Delivery	60	60	10	130
Module 6: Compute	80	135	10	225



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Module Title	Lecture (Minutes)	Activity/Lab/Demo (Minutes)	Knowledge Check (Minutes)	Total Module (Minutes)
Module 7: Storage	45	75	10	130
Module 8: Databases	60	60	10	130
Module 9: Cloud Architecture	40	65	10	115
Module 10: Automatic Scaling and Monitoring	35	45	10	90
Total Course Time	515	585	100	1,200

Module sections

This section lists the module sections in this course.

Course Introduction

- Course objectives and overview
- AWS Certification exam information
- AWS documentation

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



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- AWS services and service categories
- Activity: AWS Management Console Clickthrough
- Activity: Sample Exam Question
- Knowledge check

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


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- 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

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


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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



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Course Outline

AWS Academy Cloud Architecting

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Course Version

This course outline applies to version 2.0 of *AWS Academy Cloud Architecting* in English.

Description

AWS Academy Cloud Architecting covers the fundamentals of building IT infrastructure on AWS. The course teaches students how to optimize use of the AWS Cloud by understanding AWS services and how they fit into cloud-based solutions.

Course Objectives

Upon completion of this course, students will be able to:

- Make architectural decisions based on AWS architectural principles and best practices
- Use AWS services to make infrastructure scalable, reliable, and highly available
- Use AWS managed services to enable greater flexibility and resiliency in an infrastructure
- Increase performance and reduce cost of a cloud infrastructure built on AWS
- Use the AWS Well-Architected Framework to improve architectures that use AWS solutions

Duration

Approximately 40 hours when delivered synchronously by an educator. Actual delivery times will vary from class to class and depending on delivery format. This course must be delivered over a period of at least six weeks.

Intended Audience

This intermediate-level course is intended for AWS Academy member institutions.

Student Prerequisites

To ensure success in this course, students should have:

- Completed *AWS Academy Cloud Foundations* (ACF) or have equivalent experience
- A working knowledge of distributed systems

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- Familiarity with general networking concepts
- A working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

Delivery Methods

This course can be delivered in person with synchronous lectures or with digital training modules that students can complete independently, or a combination of ILT and digital (flipped classroom model).

Educator prerequisites

This course does not have any prerequisites for educators. However, prior to facilitating this course, educators are recommended to complete this course, and pass the AWS Certified Solutions Architect - Associate exam.

Learning Resources

- Lecture materials with activities and demonstrations
- Online multiple-choice knowledge checks
- Lab exercises
- Lab assessments
- Digital lesson content
- Video demos
- Optional Capstone project
- Example solutions

Course Contents

		Lecture	Practical	Total
Module 1 – Welcome to AWS Academy Cloud Architecting		30 min		30 min
Lecture or Video	Course objectives and overview			
Lecture or Video	Café business case introduction			

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Lecture or Video	Roles in cloud computing			
Module 2 – Introducing Cloud Architecting		55 min	10 min	65 min
Lecture or Video	What is cloud architecting?			
Lecture or Video	The AWS Well-Architected Framework			
Lecture or Video	Best practices for building solutions on AWS			
Lecture or Video	AWS global infrastructure			
Discussion (Optional)	Course capstone project		5 min (optional)	
Knowledge Check	Cloud Architecting		10 min	
Module 3 – Adding a Storage Layer		60 min	115 min	175 min
Lecture or Video	The simplest architecture			
Lecture or Video	Using Amazon S3			
Demo	Demonstration: Amazon S3 Versioning		10 min	
Guided Lab	Guided Lab: Hosting a Static Website		20 min	
Lecture or Video	Storing data in Amazon S3			
Lecture or Video	Moving data to and from Amazon S3			
Demo	Demonstration: Amazon S3 Transfer Acceleration		10 min	
Lecture or Video	Choosing Regions for your architecture			
Challenge Lab	Challenge Lab: Creating a Static Website for the Café		60 min	


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Knowledge Check	Storage Layer		10 min	
Sample Question	Sample Exam Question		5 min	

Module 4 – Adding a Compute Layer		85 min	125 min	210 min
Lecture or Video	Architectural need			
Lecture or Video	Adding compute with Amazon EC2			
Lecture or Video	Choosing an Amazon Machine Image (AMI) to launch an Amazon EC2 instance			
Lecture or Video	Selecting an Amazon EC2 instance type			
Lecture or Video	Using user data to configure an EC2 instance			
Demo	Demonstration: Configuring an EC2 Instance with User Data		20 min	
Lecture or Video	Adding storage to an Amazon EC2 instance			
Guided Lab	Guided Lab: Introducing Amazon Elastic File System (Amazon EFS)		20 min	
Lecture or Video	Amazon EC2 pricing options			
Demo	Demonstration: Reviewing the Spot Instance History Page		10 min	
Lecture or Video	Amazon EC2 considerations			
Challenge Lab	Challenge Lab: Creating a Dynamic Website for the Café		60 min	
Knowledge Check	Compute Layer		10 min	



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Sample Question	Sample Exam Question		5 min	
Module 5 – Adding a Database Layer		75 min	135 min	210 min
Lecture or Video	Architectural need			
Lecture or Video	Database layer considerations			
Lecture or Video	Amazon Relational Database Service (Amazon RDS)			
Guided Lab	Guided Lab: Creating an Amazon RDS database		20 min	
Demo	Demonstration: Amazon RDS Automated Backup and Read Replicas		15 min	
Lecture or Video	Amazon DynamoDB			
Discussion	Which database should the café use?		5 min	
Lecture or Video	Database security controls			
Lecture or Video	Migrating data into AWS databases			
Challenge Lab	Challenge Lab: Migrating a Database to Amazon RDS		80 min	
Knowledge Check	Database Layer		10 min	
Sample Question	Sample Exam Question		5 min	



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Module 6 – Creating a Networking Environment		65 min	165 min	230 min
Lecture or Video	Architectural need			
Lecture or Video	Creating an AWS networking environment			
Lecture or Video	Connecting your AWS networking environment to the internet			
Demo	Demonstration: Creating a Virtual Private Cloud Using the AWS Console		30 min	
Demo (Optional)	Demonstration: Creating a Virtual Private Cloud Using the AWS CLI		30 min (optional)	
Lecture or Video	Securing your AWS networking environment			
Guided Lab	Guided Lab: Creating a Virtual Private Cloud		30 min	
Challenge Lab	Challenge Lab: Creating a VPC Networking Environment for the Café		90 min	
Knowledge Check	Networking Environment		10 min.	
Sample Question	Sample Exam Question		5 min	
Module 7 – Connecting Networks		75 min	50 min	125 min
Lecture or Video	Architectural need			
Lecture or Video	Connecting your remote network with AWS Site-to-Site VPN			
Lecture or Video	Connecting your remote network with AWS Direct Connect			
Lecture or Video	Connecting virtual private clouds (VPCs) in AWS with VPC peering			



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Guided Lab	Guided Lab: Creating a VPC Peering Connection		20 min	
Lecture or Video	Scaling your VPC network with AWS Transit Gateway			
Activity	AWS Transit Gateway		15 min	
Lecture or Video	Connecting your VPC to supported AWS services			
Knowledge Check	Connecting Networks		10 min	
Sample Question	Sample Exam Question		5 min	
Module 8 – Securing User and Application Access		80 min	125 min	205 min
Lecture or Video	Architectural need			
Lecture or Video	Account users and AWS Identity and Access Management (IAM)			
Activity	Examining IAM policies		15 min	
Lecture or Video	Organizing users			
Lecture or Video	Federating users			
Demo	Demonstration: EC2 Instance Profile		15 min	
Lecture or Video	Multiple accounts			
Challenge Lab	Challenge Lab: Controlling Account Access by Using IAM		80 min	
Knowledge Check	User and Application Access		10 min	
Sample Question	Sample Exam Question		5 min	


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
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Module 9 - Implementing Elasticity, High Availability, and Monitoring		85 min	225 min	310 min
Lecture or Video	Architectural need			
Lecture or Video	Scaling your compute resources			
Demo	Demonstration: Creating Scaling Policies for Amazon EC2 Auto Scaling		30 min	
Lecture or Video	Scaling your databases			
Lecture or Video	Designing an environment that's highly available			
Demo	Demonstration: Creating a Highly Available Web Application		30 min	
Demo	Demonstration: Amazon Route 53		20 min	
Guided Lab	Guided Lab: Creating a Highly Available Environment		40 min	
Lecture or Video	Monitoring			
Challenge Lab	Challenge Lab: Creating a Scalable and Highly Available Environment for the Café		90 min	
Knowledge Check	Elasticity, High Availability and Monitoring		10 min	
Sample Question	Sample Exam Question		5 min	
Module 10 – Automating Your Architecture		80 min	145 min	225 min
Lecture or Video	Architectural need			
Lecture or Video	Reasons to automate			
Lecture or Video	Automating your infrastructure			

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Demo	Demonstration: Analyzing AWS CloudFormation Template Structure and Creating a Stack		20 min	
Guided Lab	Guided Lab: Automating Infrastructure Deployment with AWS CloudFormation		20 min	
Lecture or Video	Automating deployments			
Lecture or Video	AWS Elastic Beanstalk			
Challenge Lab:	Challenge Lab: Automating Infrastructure Deployment		90 min	
Knowledge Check	Automation		10 min	
Sample Question	Sample Exam Question		5 min	
Module 11 – Caching Content		65 min	45 min	110 min
Lecture or Video	Architectural need			
Lecture or Video	Overview of caching			
Lecture or Video	Edge caching			
Guided Lab	Guided Lab: Streaming Dynamic Content Using Amazon CloudFront		30 min	
Lecture or Video	Caching web sessions			
Lecture or Video	Caching databases			
Knowledge Check	Caching Content		10 min	
Sample Question	Sample Exam Question		5 min	



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Module 12 – Building Decoupled Architectures		60 min	15 min	75 min
Lecture or Video	Architectural need			
Lecture or Video	Decoupling your architecture			
Lecture or Video	Decoupling with Amazon Simple Queue Service (Amazon SQS)			
Lecture or Video	Decoupling with Amazon Simple Notification Service (Amazon SNS)			
Lecture or Video	Sending messages between cloud applications and on-premises with Amazon MQ			
Knowledge Check	Decoupled Architecture		10 min	
Sample Question	Sample Exam Question		5 min	
Module 13 – Building Microservices and Serverless Architectures		90 min	190 min	280 min
Lecture or Video	Architectural need			
Lecture or Video	Introducing microservices			
Lecture or Video	Building microservice applications with AWS container services			
Guided Lab (Optional)	<i>Guided Lab: Breaking a Monolithic Node.js Application into Microservices</i>		180 min (optional)	
Lecture or Video	Introducing serverless architectures			
Lecture or Video	Building serverless architectures with AWS Lambda			
Demo	Demonstration: Creating an AWS Lambda Function		15 min	



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Demo	Demonstration: Using AWS Lambda with Amazon S3		30 min	
Guided Lab	Guided Lab: Implementing a Serverless Architecture on AWS		40 min	
Lecture or Video	Extending serverless architectures with Amazon API Gateway			
Lecture or Video	Orchestrating microservices with AWS Step Functions			
Challenge Lab	Challenge Lab: Implementing a Serverless Architecture for the Café		90 min	
Knowledge Check	Microservices and Serverless		10 min	
Sample Question	Sample Exam Question		5 min	
Module 14 – Planning for Disaster		60 min	60 min	120 min
Lecture or Video	Architectural need			
Lecture or Video	Disaster planning strategies			
Lecture or Video	Disaster recover patterns			
Guided Lab	Guided Lab: Hybrid Storage and Data Migration with AWS Storage Gateway File Gateway		45 min	
Knowledge Check	Disaster Planning		10 min	
Sample Question	Sample Exam Question		5 min	



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Module 15 – Bridging to Certification		30 min		30 min
Lecture or Video	Certification exam resources			
Lecture or Video	Additional resources			
Discussion (Optional)	Course capstone project		5 min (optional)	
Capstone Project (Optional)	Capstone Project		300 min (optional)	

Module Objectives

Module Title	Learning Objectives
Module 1: Welcome to AWS Academy Cloud Architecting	<ul style="list-style-type: none"> Identify course prerequisites and objectives Recognize the café business case Indicate the role of cloud architects
Module 2: Introducing Cloud Architecting	<ul style="list-style-type: none"> Define cloud architecture Define how to design and evaluate architectures using the AWS Well-Architected Framework Explain best practices for building solutions on AWS Describe how to make informed decisions on where to place AWS resources
Module 3: Adding a Storage Layer	<ul style="list-style-type: none"> Recognize the problems that Amazon S3 can solve Describe how to store content efficiently using Amazon S3 Recognize the various Amazon S3 storage classes and cost considerations Describe how to move data to and from Amazon S3 Describe how to choose a Region



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	<ul style="list-style-type: none">• Create a static website
Module 4: Adding a Compute Layer	<ul style="list-style-type: none">• Identify how Amazon EC2 can be used in an architecture• Explain the value of using Amazon Machine Images (AMIs) to accelerate the creation and repeatability of infrastructure• Differentiate between the EC2 instance types• Recognize how to configure Amazon EC2 instances with user data• Recognize storage solutions for Amazon EC2• Describe EC2 pricing options• Determine the placement group given an architectural consideration• Launch an Amazon EC2 instance
Module 5: Adding a Database Layer	<ul style="list-style-type: none">• Compare database types• Differentiate between managed versus unmanaged services• Explain when to use Amazon RDS• Explain when to use Amazon DynamoDB• Describe available security controls• Describe how to migrate data into AWS databases• Deploy a database server



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Module 6: Creating a Networking Environment	<ul style="list-style-type: none">• Explain the foundational role of a VPC in AWS Cloud networking• Identify how to connect your AWS networking environment to the internet• Describe how to isolate resources within your AWS networking environment• Create a VPC with subnets, an internet gateway, route tables, and a security group
Module 7: Connecting Networks	<ul style="list-style-type: none">• Describe how to connect an on-premises network to the AWS Cloud• Describe how to connect VPCs in the AWS Cloud• Connect VPCs in the AWS Cloud by using VPC peering• Describe how to scale VPCs in the AWS Cloud• Describe how to connect VPCs to supported AWS services
Module 8: Securing User and Application Access	<ul style="list-style-type: none">• Explain the purpose of AWS IAM users, groups, and roles• Describe how to allow user federation within an architecture to increase security• Recognize how AWS Organizations service control policies (SCPs) increase security within an architecture• Describe how to manage multiple AWS accounts• Configure IAM users
Module 9: Implementing Elasticity, High Availability, and Monitoring	<ul style="list-style-type: none">• Use Amazon EC2 Auto Scaling within an architecture to promote elasticity• Explain how to scale your database resources• Deploy an Application Load Balance to create a highly available environment• Use Amazon Route 53 for Domain Name System (DNS) failover• Create a highly available environment


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	<ul style="list-style-type: none">• Design architectures that use Amazon CloudWatch to monitor resources and react accordingly
Module 10: Automating Your Architecture	<ul style="list-style-type: none">• Recognize when to automate and why• Identify how to model, create, and manage a collection of AWS resources using AWS CloudFormation• Use the Quick Start AWS CloudFormation templates to set up an architecture• Indicate how to use AWS Systems Manager and AWS OpsWorks for infrastructure and deployment automation• Indicate how to use AWS Elastic Beanstalk to deploy simple applications
Module 11: Caching Content	<ul style="list-style-type: none">• Identify how caching content can improve application performance and reduce latency• Identify how to design architectures using edge locations for distribution and distributed denial of service (DDoS) protection• Create architectures that use Amazon CloudFront to cache content• Recognize how session management relates to caching• Describe how to design architectures that use Amazon ElastiCache
Module 12: Building Decoupled Architectures	<ul style="list-style-type: none">• Differentiate between tightly and loosely coupled architectures• Identify how Amazon SQS works and when to use it• Identify how Amazon SNS works and when to use it• Describe Amazon MQ



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Module 13: Building Microservices and Serverless Architectures	<ul style="list-style-type: none">• Indicate the characteristics of microservices• Refactor a monolithic application into microservices and use Amazon ECS to deploy the containerized microservices• Explain serverless architecture• Implement a serverless architecture with AWS Lambda• Describe a common architecture for Amazon API Gateway• Describe types of workflows that AWS Step Functions supports
Module 14: Planning for a Disaster	<ul style="list-style-type: none">• Identify strategies for disaster planning• Define recovery point objective (RPO) and recovery time objective (RTO)• Describe four common patterns for backup and disaster recovery and how to implement them• Use Amazon Storage Gateway for on-premises-to-cloud backup solutions
Module 15: Bridging to Certification	<ul style="list-style-type: none">• Identify how to prepare for the AWS Certified Solutions Architect – Associate Certification• Identify where to find resources


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Course Outline

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Course version

This course outline applies to version 2.0 of AWS Academy Cloud Developing in English.

Description

AWS Academy Cloud Developing is an AWS Academy course designed to help students develop technical expertise in development using cloud technologies. The curriculum is delivered through instructor-led classes, digital videos, knowledge checks, and hands-on labs. Throughout the course, students will explore a scenario that provides opportunities to build a variety of infrastructures through a guided, hands-on approach. Students have access to course manuals, online knowledge checks, hands-on labs, a free practice certification exam, and a discount voucher for the certification exam.

Curriculum objectives

Upon completion of this course, students will be able to do the following:

- Recall cloud computing services and models
- Describe developing on AWS
- Write code that interacts with Amazon S3 by using AWS SDKs
- Explain the role of AWS IAM
- Write code that interacts with Amazon DynamoDB by using AWS SDKs
- Explain caching with Amazon CloudFront and Amazon ElastiCache
- Configure containers
- Develop solutions with SQS and SNS
- Write code that interacts with AWS Lambda by using AWS SDKs
- Create a REST API by using Amazon API Gateway
- Describe the use of AWS Step Functions
- Explain how to build secure applications
- Identify best practice for deploying applications

Duration

Approximately 40 hours. AWS Academy Cloud Developing is designed to be delivered over a semester. Actual delivery times will vary from class to class and depending on delivery format. This course must be delivered over a period of at least 4 weeks.

Intended audience

Undergraduate, graduate, or professional students who are seeking cloud developing expertise, and who must understand the scope of cloud architectures. This intermediate (level 200) course is intended for students attending AWS Academy member institutions.

Student prerequisites

AWS Academy Cloud Developing requires a strong foundation in IT concepts and skills. To ensure success in this course, students should have the following:

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- Completed the AWS Academy Cloud Foundations course or have equivalent experience
- Completed a unit in programming with Python, and have the ability to read and develop simple applications
- A working knowledge of distributed systems
- A working knowledge of general networking concepts
- A working knowledge of multi-tier architectures

Delivery methods

Learning materials are provided to support in-person or online synchronous delivery. Educators may record their lectures for asynchronous delivery.

Educator prerequisites

This course does not have any prerequisites for educators. However, prior to facilitating this course, educators are recommended to complete this course, and pass the AWS Certified Developer Associate exam.

Learning resources

- Recorded lectures
- Recorded demos
- Lecture materials
- Educator demo instructions
- Practical activities
- Lab exercises
- Instructor guide
- Student guide
- Knowledge checks


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Course timing

This table lists the module timing in this course. Note that the total classroom time for all the modules in this course is 2,400 minutes (40 hours).

Items that are not applicable are marked NA.

Module Title	Lecture (Minutes)	Exercise/Lab/Demo (Minutes)	Knowledge Check (Minutes)	Total Classroom Timing	Digital Lecture (Minutes)
AWS Review (optional)	60	NA	NA	60	NA
Module 1: Welcome to AWS Academy Cloud Developing (ACD)	30	20	NA	50	18
Module 2: Introduction to Developing on AWS	65	45	10	120	35
Module 3: Developing Storage Solutions	60	60	10	130	27
Module 4: Securing Access to Cloud Resources	80	20	10	110	45
Module 5: Developing Flexible NoSQL Solutions	80	90	10	180	52
Module 6: Developing REST APIs	110	120	10	240	75
Module 7: Developing Event-Driven Serverless Solutions	90	105	10	205	35
Module 8: Introducing Containers and Container Services	95	180	10	285	40
Module 9: Caching Information for Scalability	95	180	10	285	42

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Module Title	Lecture (Minutes)	Exercise/Lab/Demo (Minutes)	Knowledge Check (Minutes)	Total Classroom Timing	Digital Lecture (Minutes)
Module 10: Developing with Message	100	105	10	215	64
Module 11: Defining Workflows to Orchestrate Functions	70	100	10	180	24
Module 12: Developing Secure Applications on AWS	70	90	10	170	34
Module 13: Automating Deployment with CI/CD Pipelines	60	90	10	150	22
Module 14: Bridging to Certification	20	NA	NA	20	10
Total Course Timing	1075	1205	120	2400	

Module sections

This section lists the module sections in this course.

AWS Review (optional)

- Introduction to the AWS Cloud
- Overview of AWS Infrastructure
- Running Applications in the Cloud
- Introduction to Amazon EC2, Elastic Load Balancing, and Amazon EC2 Auto Scaling
- Introduction to Serverless Computing with AWS Lambda
- From Monoliths to Microservices
- Best Practices

Module 1: Welcome to AWS Academy Cloud Developing (ACD)

- Course Objectives and Overview
- Café Business Case Introduction
- Roles in Cloud Computing
- Class Exercise: AWS Documentation Scavenger Hunt

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Module 2: Introduction to Developing on AWS

- Introduction
- Systems Development Lifecycle
- Steps to Get Started Developing on AWS
- Demonstration: AWS Cloud9
- Fundamentals of Working with AWS SDKs
- Lab 2.1: Exploring AWS CloudShell and the AWS Cloud9 IDE
- Knowledge Check

Module 3: Developing Storage Solutions

- Introduction
- Introducing Amazon S3
- Creating S3 Buckets
- Working with S3 Objects
- Protecting Data and Managing Access to Amazon S3 Resources
- Lab 3.1: Working with Amazon S3
- Knowledge Check

Module 4: Securing Access to Cloud Resources

- Introduction
- Activity: Shared Responsibility Model
- Introducing AWS Identity and Access Management (IAM)
- Authenticating with IAM
- Demonstration: Configuring Cross-Account Access to AWS Resources
- Authorizing with IAM
- Demonstration: Creating IAM Users and IAM Groups
- Authorizing with IAM
- Knowledge Check

Module 5: Developing Flexible NoSQL Solutions


- Introduction
- Introducing AWS Database Options
- Key Concepts for Amazon DynamoDB
- Partitions and Data Distribution
- Secondary Indexes
- Read/Write Throughput
- Activity: Calculating RCU and WCU
- Streams and Global Tables
- Backup and Restore
- Basic Operations for Amazon DynamoDB Tables
- Lab 5.1: Working with Amazon DynamoDB
- Knowledge Check

Module 6: Developing REST APIs

- Introduction
- Introducing APIs

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- Introduction to Amazon API Gateway
- Creating a REST API
- Integrating with API Gateway
- Deploying an API
- Controlling Access to a REST API
- Monitoring a REST API
- Optimizing API Gateway
- Lab 6.1: Developing REST APIs with Amazon API Gateway
- Knowledge Check

Module 7: Developing Event-Driven Serverless Solutions

- Introduction
- Introducing Serverless Computing
- Introducing AWS Lambda
- Invoking Lambda Functions
- Setting Permissions for Lambda
- Authoring and Configuring Lambda Functions
- Deploying Lambda Functions
- Monitoring and Debugging Tools for Application Developers
- Demonstration: Using AWS X-Ray with Lambda
- Lab 7.1: Creating Lambda Functions Using the AWS SDK for Python
- Knowledge Check

Module 8: Introducing Containers and Container Services

- Introduction
- Introducing Containers
- Introducing Docker Containers
- Lab 8.1: Migrating a Web Application to Docker Containers
- Using Containers for Microservices
- Introducing AWS Container Services
- Deploying Applications with Elastic Beanstalk
- Lab 8.2: Running Containers on a Managed Service
- Knowledge Check

Module 9: Caching Information for Scalability

- Introduction
- Caching Overview
- Caching with Amazon ElastiCache
- Lab 9.1: Caching Application Data with ElastiCache
- Caching with Amazon CloudFront
- Caching Strategies
- Lab 9.2: Implementing CloudFront for Caching and Application Security
- Knowledge Check

Module 10: Developing with Messaging Services

- Introduction

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- Processing Requests Asynchronously
- Introducing Amazon SQS
- Working with Amazon SQS Messages
- Configuring Amazon SQS Queues
- Introducing Amazon SNS
- Developing with Amazon SNS
- Demonstration: Working with Amazon Messaging Services
- Introducing Kinesis Data Streams
- Lab 10.1: Implementing a Messaging System Using Amazon SNS and Amazon SQS
- Knowledge Check

Module 11: Defining Workflows to Orchestrate Functions

- Introduction
- Coordinating Tasks in Distributed Applications
- Introducing AWS Step Functions
- State Types
- Step Functions Use Cases
- Step Functions API
- Demonstration: Creating Simple Calculators Using Step Functions
- Lab 11.1: Orchestrating Serverless Functions with AWS Step Functions
- Knowledge Check

Module 12: Developing Secure Applications on AWS

- Introduction
- Securing Network Connections
- Authenticating with AWS STS
- Authenticating with Amazon Cognito
- Lab 12.1: Implementing Application Authentication Using Amazon Cognito
- Knowledge Check

Module 13: Automating Deployment Using CI/CD Pipelines

- Introduction
- Introducing DevOps
- Using AWS Code Services for CI/CD
- Deploying Applications with AWS CloudFormation
- Deploying Applications with AWS SAM
- Lab 13.1: Automating Application Deployment Using a CI/CD Pipeline

Module 14: Bridging to Certification

- Certifications and Resources
- Additional Resources

Optional: Instructor Sandbox

Lab: Sandbox

Course Outline

AWS Academy Cloud Operations

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Course Version

This course outline applies to version 1.0 of *AWS Academy Cloud Operations* in English.

Description

AWS Academy Cloud Operations is designed to prepare participants to pursue entry-level DevOps, support, and cloud operations roles. It will also help prepare them to take the AWS SysOps Administrator – Associate exam. Emphasizing best practices in the AWS Cloud and recommended design patterns, this course will teach students how to solve problems and troubleshoot various scenarios. The course will show students how to create automatable and repeatable deployments of networks and systems on AWS and covers specific AWS features and tools related to configuration and deployment. With case studies and demonstrations, students will learn how some AWS customers design their infrastructures and implement various strategies and services. Students will also have the opportunity to build a variety of infrastructures via guided, hands-on activities.

Curriculum Objectives

This course teaches students how to:

- Understand AWS infrastructure as it relates to system operations, such as global infrastructure, core services, and account security
- Use the AWS Command Line Interface (AWS CLI), and understand additional administration and development tools
- Manage, secure, and scale compute instances on AWS
- Manage, secure, and scale configurations
- Identify container services and AWS services that are available for serverless computing.
- Manage, secure, and scale databases on AWS
- Build virtual private networks with Amazon Virtual Private Cloud (Amazon VPC)
- Configure and manage storage options using the storage services offered with AWS
- Monitor the health of your infrastructure with services such as Amazon CloudWatch, AWS CloudTrail, and AWS Config
- Manage resource consumption in an AWS account by using tags, Amazon CloudWatch, and AWS Trusted Advisor
- Create and configure automated and repeatable deployments with tools such as Amazon Machine Images (AMIs) and AWS CloudFormation

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AWS Academy Cloud Operations

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Duration

Approximately 40 hours. *AWS Academy Cloud Operations* is designed to be delivered over a semester. Actual delivery times vary depending on the format. This course must be delivered over a period of at least four weeks.

Intended Audience

This intermediate (200-level) course is intended for students attending AWS Academy member institutions.

Employment Outcomes

This course is intended for prospective operations/support/DevOps roles including:

- Operations Engineer
- Support Engineer
- Application Support Engineer
- Product Support Engineer
- Customer Support Engineer
- Support Specialist
- Junior DevOps Engineer
- DevOps Engineer
- Operations Engineer
- Platform Engineer
- Cloud Engineer
- Site Reliability Engineer



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AWS Academy Cloud Security Foundations

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Student Prerequisites

AWS Academy Cloud Operations requires a strong foundation in IT concepts and skills. To ensure success, students should have:

- Completed *AWS Academy Cloud Foundations* or have equivalent experience
- A working knowledge of at least one scripting language
- Familiarity with Linux, the command line and Application Programming Interfaces (APIs)
- Familiarity with virtualization and distributed computing
- An understanding of version control (e.g., Git)
- An understanding of data storage mechanisms such as SQL

Delivery Methods

Learning materials are provided to support in-person or online synchronous delivery. Educators may record their lectures for asynchronous delivery.

Educator Prerequisites

This course does not have any prerequisites for educators. However, prior to facilitating this course, educators are recommended to complete this course, and pass the AWS Certified SysOps Administrator - Associate exam.

Learning Resources

- Video introductions
- Lecture materials
- Educator demo instructions
- Practical activities
- Lab exercises



Course Outline

AWS Academy Cloud Security Foundations

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Course Contents

		Lecture	Digital Training	Exercise & Lab	Knowledge Check
Course Welcome and Overview		1:15		0:35	
Lecture	AWS Academy Cloud Operations on AWS Course Objectives and Overview				
Lecture	Create your AWS Training Portal Account				
Lecture	Access your Course Materials				
Activity	Documentation Scavenger Hunt				
Module 1 – Understanding Systems Operations on AWS		4:00		1:20	0:15
Lecture	Systems Operations in the Cloud				
Lecture	Introduction to Core Services				
Lecture	AWS Identity and Access Management (IAM)				
Video	IAM Policy Simulator				
Lecture	AWS Command Line Interface (CLI)				
Educator Demo	AWS CLI				
Activity	Install and Practice Using the AWS CLI				
Knowledge Check					
Module 2 - Tooling and Automation		4:00		1:50	0:15
Lecture	AWS Systems Manager				



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Lecture	Additional Administration and Development Tools				
Lecture	Hosting a Static Website on Amazon S3				
Lab	Using AWS Systems Manager				
Activity	Create a Static Website on Amazon S3				
Knowledge Check					
Module 3 – Computing (Servers)		0:45		1:45	0:15
Lecture	Computing on AWS				
Lecture	Managing your AWS Instances				
Lecture	Securing your AWS Instances				
Lecture	Amazon EC2 Purchasing Options				
Lab	Creating Amazon EC2 Instances				
Activity	Troubleshoot Creating a LAMP Instance in the AWS CLI				
Knowledge Check					
Module 4 – Computing (Scaling and Name Resolution)		5:00		1:30	0:15
Lecture	Elastic Load Balancing				
Lecture	Amazon EC2 Auto Scaling				
Lecture	Amazon Route 53				
Video	Amazon Route 53 Routing Options Demo				
Lab	Configure EC2 Auto Scaling				

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Video	Amazon Route 53 Geo Routing Demo				
Activity	Configure Failover Routing with Amazon Route 53				
Knowledge Check					
Module 5 – Computing (Containers and Serverless)		4:00		1:15	0:15
Lecture	AWS Lambda				
Lecture	APIs and REST				
Lecture	Amazon API Gateway				
Lecture	Containers on AWS				
Educator Demo	Deploy Docker Container on Amazon Elastic Container Service (ECS)				
Video	Introduction to AWS Step Functions				
Lecture	AWS Step Functions				
Activity	Create an AWS Lambda Function to Email Daily Reports				
Knowledge Check					
Module 6 – Computing (Database Services)		3:50		2:15	0:15
Lecture	AWS Database Services				
Lecture	Amazon Relational Database Service (RDS)				
Educator Demo	Create an RDS Instance				
Lecture	Amazon Aurora				



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Video	How to Create Your First Database Cluster on Amazon Aurora				
Lecture	Amazon DynamoDB				
Lecture	AWS Database Migration Service (AWS DMS)				
Activity	Migrate to Amazon RDS				
Knowledge Check					
Module 7 – Networking		4:00		1:45	0:15
Lecture	AWS Cloud Networking and Amazon Virtual Private Cloud (VPC)				
Lecture	Amazon VPC Connectivity Options				
Lecture	Securing Your Network				
Lecture	Troubleshooting Networks on AWS				
Lab	Configuring Virtual Private Cloud (VPC)				
Activity	Troubleshoot a VPC				
Knowledge Check					
Module 8 – Storage and Archiving		4:15		2:00	0:15
Lecture	Cloud Storage Overview				
Lecture	Amazon Elastic Block Store (EBS)				
Lecture	Instance Store				
Lecture	Amazon Elastic File System				
Lecture	Amazon S3				

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Lecture	Amazon S3 Glacier				
Lecture	AWS Data Transfer and Migration Services				
Lab	Automation and Optimization				
Activity	Work with Amazon S3				
Knowledge Check					
Module 9 – Monitoring and Security		3:45		1:30	0:15
Lecture	Amazon CloudWatch				
Lecture	Amazon CloudWatch Monitoring				
Lecture	Amazon CloudWatch Events				
Lecture	Amazon CloudWatch Logs				
Lecture	AWS CloudTrail				
Lecture	AWS Service Integration with Amazon Athena				
Lecture	AWS Config				
Lab	Monitoring Your Applications and Infrastructure				
Activity	Working with AWS CloudTrail				
Knowledge Check					
Module 10 – Managing Resource Consumption		2:00		1:50	0:15
Lecture	Tagging				
Video	What are tags and what can I do with them?				



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Lecture	Cost Management Tools and Best Practices				
Lecture	AWS Trusted Advisor				
Lab	Managing Resources				
Activity	Optimize AWS Resource Utilization				
Knowledge Check					
Module 11 – Cloud Architecting		2:00		1:45	0:15
Lecture	Configuration Management in the Cloud				
Lecture	Using Configuration Software				
Lecture	Creating an AMI Building Strategy				
Lecture	Amazon EC2 Launch Templates				
Educator Demo	Create an EC2 Launch Template				
Lecture	Infrastructure as Code				
Lecture	Introduction to JSON and YAML				
Lecture	AWS CloudFormation				
Lecture	Troubleshooting AWS CloudFormation				
	Continuous Integration and Continuous Deployment on AWS				
Lab	Automating Deployments with AWS CloudFormation				
Activity	Infrastructure as Code				
Knowledge Check					

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Recommended & Optional					
Lab	Sandbox				


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Learning Objectives

Module	Learning Objectives
Module 0: Welcome and Overview	<ul style="list-style-type: none">• Explain the course scope and expectations.• Create an AWS Training Portal account.• Create your free AWS Educate account.• Access course materials and resources.• Navigate the AWS documentation website.
Module 1: Understanding Systems Operations on AWS	<ul style="list-style-type: none">• Describe system operations in the cloud related to automated and repeatable deployments.• Explain Amazon Web Services (AWS) regions and edge locations, and criteria for selecting them.• Describe core services related to system operations, including services for network, compute, and access.• Explain how AWS Identity and Access Management (IAM) provides security over AWS account resources.• Describe AWS Command Line Interface (AWS CLI) features.
Module 2: Tooling and Automation	<ul style="list-style-type: none">• Describe the purpose and function of AWS Systems Manager and its related features.• Describe the purpose and function of AWS Tools for PowerShell.• Identify additional development tools used for tooling and automation, such as software development kits (SDKs), AWS CloudFormation, and AWS OpsWorks.• Explain how Amazon Simple Storage Service (Amazon S3) can be used to host a static website.
Module 3: Computing Servers	<ul style="list-style-type: none">• Describe Amazon Elastic Compute Cloud (Amazon EC2) virtualization.• Differentiate between the instance types and storage options available for EC2 instances.• Understand the networking components that must be specified when you launch an EC2 instance.


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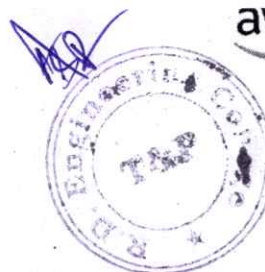


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	<ul style="list-style-type: none">• Explain Amazon EC2 user data and metadata.• Differentiate the lifecycle states for an EC2 instance.• Explain the shared responsibility model.• Create Amazon EC2 instances.
Module 4: Computing (Scaling and Name Resolution)	<ul style="list-style-type: none">• Describe Elastic Load Balancing features.• Differentiate the types of ELB load balancers.• Describe Amazon EC2 Auto Scaling and launch configurations.• Use EC2 Auto Scaling.• Describe Amazon Route 53 features and routing options.• Configure failover routing.
Module 5: Computing (Containers and Serverless)	<ul style="list-style-type: none">• Explain the purpose and function of AWS Lambda.• Describe the purpose and function of application programming interfaces (APIs), including RESTful APIs.• Explain the benefits and function of Amazon API Gateway.• Explain the purpose and function of containers and the AWS services that support container usage.• Explain the purpose and function of AWS Step Functions.
Module 6: Computing (Database Services)	<ul style="list-style-type: none">• Differentiate the types of managed database services offered by Amazon Web Services (AWS) and identify their recommended use.• Identify some of the factors for consideration when selecting a database (engine and workloads).• Explain the purpose and function of Amazon Relational Database Service (Amazon RDS), Amazon Aurora, and Amazon DynamoDB and related benefits of each.• Describe the main features and benefits of Amazon Relational Database Service (Amazon RDS), Amazon Aurora, and Amazon DynamoDB.



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	<ul style="list-style-type: none">• Explain the benefits of the AWS Database Migration Service (AWS DMS) and the capabilities of the AWS Schema Conversion Tool (AWS SCT).
Module 7: Networking	<ul style="list-style-type: none">• Explain the foundational role of an Amazon virtual private cloud (VPC) in AWS Cloud networking.• Identify the networking components inside of a VPC and their purpose.• Differentiate the options for VPC connectivity.• Describe the layered network defense model inside a VPC, such as network Access Control Lists (network ACLs), security groups, and bastion hosts.• List the steps to troubleshoot common VPC network issues.• Configure a VPC.
Module 8: Storage and Archiving	<ul style="list-style-type: none">• Differentiate the AWS data storage options and explain their purpose and benefits.• Create and manage Amazon EBS snapshots.• Store, retrieve, and archive Amazon S3 objects.• Identify AWS data migration services.
Module 9: Monitoring and Security	<ul style="list-style-type: none">• Explain the benefits of Amazon CloudWatch.• Describe Amazon CloudWatch monitoring features, including metrics and alarm details.• Describe Amazon CloudWatch log features and benefits.• Explain the purpose and function of AWS CloudTrail.• Describe AWS Config features and benefits.• Use Amazon CloudWatch to monitor applications and infrastructure.
Module 10: Managing Resource Consumption	<ul style="list-style-type: none">• Explain the purpose and function of tagging in AWS.• Describe the cost management strategies associated with tagging.• Describe how to enforce tagging using Identity and Access Management (IAM) policies.

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	<ul style="list-style-type: none"> Identify some of the cost benefits of the cloud. Explain the purpose and function of the AWS Trusted Advisor service. Manage Resources with tagging.
Module 11: Creating Automated and Repeatable Deployments	<ul style="list-style-type: none"> Identify some of the AWS services for configuration management. Describe the challenges associated with cloud deployments and potential solutions for remedy. Describe infrastructure as code and the value it creates. Describe the purpose of AWS CloudFormation. Describe some of the types of errors with AWS CloudFormation and their remedy. Describe best practices using AWS CloudFormation.
Lab 1 – Using AWS Systems Manager	<ul style="list-style-type: none"> Use AWS Systems Manager Inventory to verify configurations and permissions. Use AWS Systems Manager Run Command to execute tasks on multiple servers. Use AWS Systems Manager Parameter Store to update application settings or configurations. Use AWS Systems Manager Session Manager to access the command line on an instance.
Lab 2 – Creating Amazon EC2 Instances (Linux)	<ul style="list-style-type: none"> Launch an Amazon EC2 instance using the management console. Launch an Amazon EC2 instance using the AWS Command Line Interface (CLI).
Lab 3 – Using Auto Scaling (Linux)	<ul style="list-style-type: none"> Create a new Amazon Machine Image (AMI) by using the Amazon Command Line Interface (CLI). Use Auto Scaling to scale up the number of servers available for a specific task when other servers are experiencing a heavy load.
Lab 4 – Configuring VPC (Linux)	<ul style="list-style-type: none"> Create a virtual private cloud (VPC) that contains a private and public subnet, an internet gateway, and a Network Translation (NAT) gateway.

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	<ul style="list-style-type: none">• Configure route tables that are associated with a public subnet for internet-bound traffic to be directed to the internet gateway for direct internet access.• Configure route tables that are associated with a private subnet for isolated resources to securely connect to the internet through a NAT gateway.• Launch a bastion host in a public subnet for resource-based secured access to the private subnet.• Evaluate the operation of the private subnet's ability to communicate with the internet.
Lab 5 – Managing Storage (Linux)	<ul style="list-style-type: none">• Create and maintain snapshots for Amazon EC2 instances.• Upload files to and download files from Amazon S3.
Lab 6 – Monitoring Your Applications and Infrastructure	<ul style="list-style-type: none">• Use AWS Systems Manager Run Command to install the CloudWatch Agent on Amazon EC2 instances.• Monitor Application Logs using CloudWatch Agent and CloudWatch Logs.• Monitor system metrics using CloudWatch Agent and CloudWatch Metrics.• Create real-time notifications using CloudWatch Events.• Track infrastructure compliance using AWS Config.
Lab 7 – Managing Resources (Linux/Windows)	<ul style="list-style-type: none">• Apply tags to existing AWS resources.• Find resources based on tags.• Use the AWS CLI or AWS SDK for PHP to stop and terminate Amazon EC2 instances based on certain attributes of the resource.
Lab 8 – Automating Deployments with AWS CloudFormation	<ul style="list-style-type: none">• Deploy an AWS CloudFormation stack with a defined Virtual Private Cloud (VPC), Identity and Access Management (IAM) role, and Security Group.• Configure an AWS CloudFormation stack with resources, such as an Amazon Simple Storage Solution (S3) bucket and Amazon Elastic Compute Cloud (EC2).• Terminate an AWS CloudFormation and its respective resources.

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Activity 1: Install AWS CLI with IAM challenge	<ul style="list-style-type: none">• Install and configure the AWS CLI.• Connect the AWS CLI to an AWS account.• Access IAM by using the AWS CLI.
Activity 2: Create Static Website for Mom & Pop Cafe on S3	<ul style="list-style-type: none">• Run AWS CLI commands that use IAM and Amazon S3 services.• Deploy a static website to an S3 bucket.• Create a script that uses the AWS CLI to copy files in a local directory to Amazon S3.
Activity 3: Deploy a LAMP Instance	<ul style="list-style-type: none">• Launch an Amazon EC2 instance using the AWS CLI.• Troubleshoot AWS CLI commands and Amazon EC2 service settings.
Activity 4: Route53 with GeoRouting	<ul style="list-style-type: none">• Configure a Route 53 health check that sends emails when the health of an HTTP endpoint turns healthy.• Configure failover routing in Amazon Route 53.
Activity 5: Lambda function for Mom & Pop Cafe emails latest data	<ul style="list-style-type: none">• Recognize necessary IAM policy permissions to enable a Lambda function to other AWS resources.• Create a Lambda layer to satisfy an external library dependency.• Create a Lambda function.• Deploy and test a Lambda function that is triggered based on a schedule and that invokes another function.• Use CloudWatch logs to troubleshoot the execution of a Lambda function.
Activity 6: Migrate Mom & Pop Cafe from MySQL on instance to RDS	<ul style="list-style-type: none">• Create an Amazon Relational Database Service (RDS) MariaDB instance using the AWS Command Line Interface (CLI).• Migrate data from a local MariaDB database to an Amazon RDS MariaDB database.• Monitor an Amazon RDS instance using Amazon CloudWatch metrics.
Activity 7:	<ul style="list-style-type: none">• Identify VPC configuration issues.


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Troubleshooting a VPC	<ul style="list-style-type: none">• Troubleshoot VPC configuration issues.• Enable VPC Flow Logs.• Analyze VPC Flow Logs using grep.
Activity 8: Create a Backup Schedule with Snapshots and Migrate S3 Data to Glacier	<ul style="list-style-type: none">• Use s3api and s3 CLI commands to create and configure an Amazon S3 bucket.• Configure an Amazon S3 bucket for file sharing with an external user.• Secure an Amazon S3 bucket for different access requirements using S3 permissions.• Configure event notification on an Amazon S3 bucket.
Activity 9: Trigger a CloudWatch Alarm, Enable CloudTrail, and Track Activity	<ul style="list-style-type: none">• Configure an AWS CloudTrail.• Analyze CloudTrail logs using a variety of methods to discover relevant information.• Import AWS CloudTrail log data into Amazon Athena.• Run queries in Amazon Athena to filter AWS CloudTrail log entries.• Resolve security concerns within the AWS account and on an EC2 Linux instance.
Activity 10: Creating AMIs and Launching EC2 Templates	<ul style="list-style-type: none">• Optimize an Amazon EC2 instance to reduce costs.• Use the AWS Simple Monthly Calculator to estimate AWS service costs.
Activity 11: Troubleshooting CloudFormation Deployments	


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AWS Academy Cloud Foundations [46520]- Assessment test

Student	ID	Module 1	Module 2	Module 3	Module 4	Module 5	Module 6	Module 7	Module 8	Module 9	Module 10	Final Points
Points Possible		100	100	100	100	100	100	100	100	100	100	1000
aaakansha.710rdmca24@rdec.in	1051631	100	80	100	90							370
Abhay	1012422	100	100	100	100	100	100	100	100	100	90	990
Abhishek	1012427	100	80	100	100	100	90	90	100	90	100	950
abhishek.001cse23@rdec.in	1012552	100	80	100	100	90	90	80	100	80	90	910
abhishek.001ds23@rdec.in	1012602	100	100	100	100	100	100	100	100	100	100	1000
Aditya	1012428	100	100	100	100	100	100	100	100	100	100	1000
akanksha.217rdmca24@rdec.in	1051638	90	70	100	100	100	90	100	90	100	80	920
akshay.015cs23@rdec.in	1012433	80	80	90	100	100	90	100	90	90	80	900
akshit.017cs23@rdec.in	1012435	100	80	80	90	90	80	90	100	90	80	880
alisha.018cs23@rdec.in	1012436	100	90	80	100	100	90	100	100	70	90	920
aman.002aiml23@rdec.in	1012562	100	100	100	90	90	80	80	100	100	90	930
aman.002ds23@rdec.in	1012603	100	100	100	100	100	90	90	100	90	100	970
anand.004aiml23@rdec.in	1012564				90	100	100	100	100	90	100	680
Ankit	1012438	100	100	100	100	100	100	100	100	100	90	990
ankit.003it23@rdec.in	1012616	100	80	100	100	100	100	100	100	90	90	960
ankush.004rdmca24@rdec.in	1051649	100	90	80	100	90	90	90	100	80	80	900
anshuman.024cs23@rdec.in	1012442	90	80	90	100	100	80	80	100	100	80	900
anushka.027cs23@rdec.in	1012445	100	100	90	100	100	100	90	100	100	100	980
arpit.0003rdce23@rdec.in	1080931	100	100	90	100	100	100	100	90	100	100	980
ashish.034cs23@rdec.in	1012452	100	100	100	100	100	100	100	100	100	90	990
ayush.036cs23@rdec.in	1012454	100	100	100	90	100	100	100	100	90	100	980
chanchal.037cs23@rdec.in	1012455	100	100	90	100	100	90	100	100	90	100	970
deepanshu.042cs23@rdec.in	1012460	100	90	90	100	100	100	90	100	90	100	960
deepanshu.043cs23@rdec.in	1012461	100	100	100	100	100	90	80	100	90	100	960
goldi.049cs23@rdec.in	1012467	100	90	100	90	90	80	100	100	90	90	930
harsh.003ds23@rdec.in	1012604	100	100	100	100	100	100	100	100		100	900
harsh.019cse23@rdec.in	1012643	100	90	100	100	100	100	90	100	90	80	950
himanshu.008aiml23@rdec.in	1012568	90	100	90	70	100	100	100	100	70	100	920
himanshu.053cs23@rdec.in	1012471	100	100	100	100	90	100	90	100	90	100	970
hritik.055cs23@rdec.in	1012473	100	80	100	100	100	100	100	100	70	100	950
kajal.056cs23@rdec.in	1012474	100	100	90	100	70	90	100	90	80	100	920
keerti.004ds23@rdec.in	1012605	100	90	100	100	100	100	100	100	90	80	960
khushi.005ds23@rdec.in	1012606	100	90	100	100	100	100	90	100	100	90	970
khushi.013aiml23@rdec.in	1012573	100	100	90	100	100	80	100	100	100	100	970



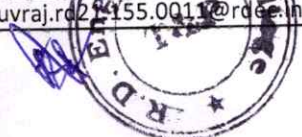
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krishan.002cs23@rdec.in	1012624	100	100	100	100	100	100	100	100	100	100	100	1000
laxmi.063cs23@rdec.in	1012481	100	100	100	100	100	100	100	90	100	100	100	990
Mangesh Yadav	1998984	100	100	100	100	100	100	100	90	100	100	100	990
nida.076cs23@rdec.in	1012484	100	100	100	100	100	100	100	90	100	90	90	970
Pal, Aashu	1012421	100	80	100	100	100	90	90	100	90	90	90	940
pooja.001iot23@rdec.in	1012611	100	90	100	80	100	100	90	100	80	90	90	930
priyanka.007cs23@rdec.in	1012546	100	100	100	100	100	100	100	100	100	100	100	1000
reetika.021aiml23@rdec.in	1012581	100	80	80	70	90	90	90	90	100	80	80	860
rohan.023aiml23@rdec.in	1012583	100	100	100	100	100	100	100	80	100	80	100	960
sachin.003cs23@rdec.in	1012625	90	100	90	100	100	100	100	80	100	80	100	940
sambhawi.009it23@rdec.in	1012622	100	100	100	100	100	100	100	100	100	100	100	1000
shivani.010cs23@rdec.in	1012549	100	100	100	100	100	100	100	100	90	100	100	990
shivank.0022rdece23@rdec.in	1032776	90	100	100	90	100	80	100	100	100	100	100	960
simran.002iot23@rdec.in	1012612	100	100	90	100	100	90	100	90	90	90	90	950
sonali.007ds23@rdec.in	1012608	80	100	90	100	100	100	80	90	100	80	80	920
sourabh.030aiml23@rdec.in	1012590	100	100	100	100	100	90	90	90	100	90	90	960
sunmeet.031aiml23@rdec.in	1012591	90	70	70	100	100	70	80	90	90	90	90	850
suraj.0025rdece23@rdec.in	1032779	100	90	100	100	100	100	90	90	80	90	90	940
tejas.107cs23@rdec.in	1012526	90	100	100	100	90	100	100	100	100	100	90	970
vadic.032aiml23@rdec.in	1012592	100	90	100	100	100	100	100	100	100	90	80	960
vanshika.033aiml23@rdec.in	1012593	100	100	100	100	100	100	100	100	100	100	100	1000
vidya.009ds23@rdec.in	1012610	80	100	100	100	100	80	90	100	90	100	100	940
vikas.112cs23@rdec.in	1012531	100	70	100	100	100	100	100	100	100	90	100	960
vipin.0026rdece23@rdec.in	1032780	100	100	100	90	100	80						570
vishal.117cs23@rdec.in	1012601	100	100	100	100	100	100	100	100	100	100	100	1000
yaashi.003iot23@rdec.in	1012613	90	100	90	100	100	90	90	100	100	100	90	950
yash.055cse23@rdec.in	1012627	100	100	100	100	100	100	100	100	100	100	90	990




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5	garvit.rd22.010.9006@rdec.in	2442918	AWS Academy Cloud Foundations [46520]
6	ganesh.rd22.010.9005@rdec.in	2442917	AWS Academy Cloud Foundations [46520]
7	chanchal.rd22.010.9003@rdec.in	2442915	AWS Academy Cloud Foundations [46520]
8	avinash.rd22.010.9002@rdec.in	2442914	AWS Academy Cloud Foundations [46520]
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12	monika.rd22.031.9009@rdec.in	2439884	AWS Academy Cloud Foundations [46520]
13	tarun.rd21.031.0021@rdec.in	2439878	AWS Academy Cloud Foundations [46520]
14	suraj.rd21.031.0020@rdec.in	2439877	AWS Academy Cloud Foundations [46520]
15	pappu.rd21.031.0017@rdec.in	2439874	AWS Academy Cloud Foundations [46520]
16	mohin.rd21.031.0015@rdec.in	2439873	AWS Academy Cloud Foundations [46520]
17	dhiraj.rd21.031.0009@rdec.in	2439869	AWS Academy Cloud Foundations [46520]
18	aryan.rd21.031.0007@rdec.in	2439867	AWS Academy Cloud Foundations [46520]
19	ankit.rd21.031.0005@rdec.in	2439865	AWS Academy Cloud Foundations [46520]
20	ajay.rd21.031.0004@rdec.in	2439864	AWS Academy Cloud Foundations [46520]
21	aashish.rd21.031.0001@rdec.in	2439863	AWS Academy Cloud Foundations [46520]
22	tushar.rc21.010.9013@rdec.in	2030019	AWS Academy Cloud Foundations [46520]
23	tezan.rc21.010.9012@rdec.in	2030018	AWS Academy Cloud Foundations [46520]
24	raunak.rc21.010.9008@rdec.in	2030017	AWS Academy Cloud Foundations [46520]
25	anshika.rc21.010.9004@rdec.in	2030014	AWS Academy Cloud Foundations [46520]
26	abhilash.rc21.010.9001@rdec.in	2030012	AWS Academy Cloud Foundations [46520]
27	vishal.rc21.010.0062@rdec.in	2030011	AWS Academy Cloud Foundations [46520]
28	shubham.rc21.010.0055@rdec.in	2030009	AWS Academy Cloud Foundations [46520]
29	saurabh.rc21.010.0050@rdec.in	2030008	AWS Academy Cloud Foundations [46520]
30	sameer.rc21.010.0046@rdec.in	2030006	AWS Academy Cloud Foundations [46520]
31	rithik.rc21.010.0043@rdec.in	2030003	AWS Academy Cloud Foundations [46520]
32	ravi.rc21.010.0042@rdec.in	2030002	AWS Academy Cloud Foundations [46520]
33	mayur.rc21.010.0034@rdec.in	2029999	AWS Academy Cloud Foundations [46520]
34	manik.rc21.010.0033@rdec.in	2029998	AWS Academy Cloud Foundations [46520]
35	lucky.rc21.010.0032@rdec.in	2029997	AWS Academy Cloud Foundations [46520]
36	kuldeep.rc21.010.0031@rdec.in	2029996	AWS Academy Cloud Foundations [46520]
37	kashish.rc21.010.0030@rdec.in	2029995	AWS Academy Cloud Foundations [46520]
38	harsh.rc21.010.0025@rdec.in	2029994	AWS Academy Cloud Foundations [46520]
39	deepanshu.rc21.010.0021@rdec.in	2029993	AWS Academy Cloud Foundations [46520]
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42	abhishek.rc21.010.0005@rdec.in	2029986	AWS Academy Cloud Foundations [46520]
43	tarun.rc21.010.9011@rdec.in	2029983	AWS Academy Cloud Foundations [46520]
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46	anshika.rc21.010.9003@rdec.in	2029979	AWS Academy Cloud Foundations [46520]
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50	shagun.rc21.010.0051@rdec.in	2029974	AWS Academy Cloud Foundations [46520]
51	divya.rc21.010.0022@rdec.in	2029969	AWS Academy Cloud Foundations [46520]
52	ankit.rc21.010.0017@rdec.in	2029967	AWS Academy Cloud Foundations [46520]
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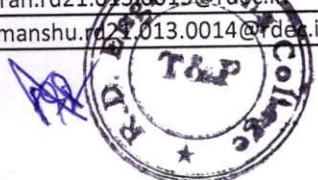


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73	tanish.rd21.154.0047@rdec.in	1999192	AWS Academy Cloud Foundations [46520]
74	shubham.rd21.154.0046@rdec.in	1999191	AWS Academy Cloud Foundations [46520]
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93	harsh.rd21.154.0024@rdec.in	1999170	AWS Academy Cloud Foundations [46520]
94	gurmeet.rd21.154.0022@rdec.in	1999169	AWS Academy Cloud Foundations [46520]
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113	yash.rd21.153.0059@rdec.in	1999146	AWS Academy Cloud Foundations [46520]
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117	vanshika.rd21.153.0055@rdec.in	1999142	AWS Academy Cloud Foundations [46520]
118	vaibhav.rd21.153.0054@rdec.in	1999141	AWS Academy Cloud Foundations [46520]
119	sourav	1999139	AWS Academy Cloud Foundations [46520]
120	sourabh.rd21.153.0051@rdec.in	1999138	AWS Academy Cloud Foundations [46520]
121	shivam.rd21.153.0050@rdec.in	1999137	AWS Academy Cloud Foundations [46520]
122	shivam.rd21.153.0048@rdec.in	1999135	AWS Academy Cloud Foundations [46520]
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124	raghav.rd21.153.0044@rdec.in	1999131	AWS Academy Cloud Foundations [46520]
125	purvansh.rd21.153.0043@rdec.in	1999130	AWS Academy Cloud Foundations [46520]
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131	hemant.rd21.153.0029@rdec.in	1999118	AWS Academy Cloud Foundations [46520]
132	harshit.rd21.153.0028@rdec.in	1999117	AWS Academy Cloud Foundations [46520]
133	harsh.rd21.153.0027@rdec.in	1999116	AWS Academy Cloud Foundations [46520]
134	harsh.rd21.153.0026@rdec.in	1999115	AWS Academy Cloud Foundations [46520]
135	harsh.rd21.153.0025@rdec.in	1999114	AWS Academy Cloud Foundations [46520]
136	harendra.rd21.153.0024@rdec.in	1999113	AWS Academy Cloud Foundations [46520]
137	gungun.rd21.153.0023@rdec.in	1999112	AWS Academy Cloud Foundations [46520]
138	garima.rd21.153.0022@rdec.in	1999111	AWS Academy Cloud Foundations [46520]
139	farheen.rd21.153.0021@rdec.in	1999110	AWS Academy Cloud Foundations [46520]
140	devang.rd21.153.0018@rdec.in	1999108	AWS Academy Cloud Foundations [46520]
141	ayush.rd21.153.0016@rdec.in	1999106	AWS Academy Cloud Foundations [46520]
142	ayush.rd21.153.0015@rdec.in	1999105	AWS Academy Cloud Foundations [46520]
143	ayush.rd21.153.0014@rdec.in	1999104	AWS Academy Cloud Foundations [46520]
144	atin.rd21.153.0013@rdec.in	1999103	AWS Academy Cloud Foundations [46520]
145	aryan.rd21.153.0012@rdec.in	1999102	AWS Academy Cloud Foundations [46520]
146	aryan.rd21.153.0011@rdec.in	1999101	AWS Academy Cloud Foundations [46520]
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150	abhishek.rd21.153.0003@rdec.in	1999094	AWS Academy Cloud Foundations [46520]
151	vinay.rd21.013.0047@rdec.in	1999091	AWS Academy Cloud Foundations [46520]
152	tasauvar.rd21.013.0044@rdec.in	1999089	AWS Academy Cloud Foundations [46520]
153	sushant.rd21.013.0043@rdec.in	1999087	AWS Academy Cloud Foundations [46520]
154	suraj.rd21.013.0042@rdec.in	1999086	AWS Academy Cloud Foundations [46520]
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156	sudhanshu.rd21.013.0039@rdec.in	1999084	AWS Academy Cloud Foundations [46520]
157	shrishty.rd21.013.0037@rdec.in	1999083	AWS Academy Cloud Foundations [46520]
158	shivam.rd21.013.0035@rdec.in	1999082	AWS Academy Cloud Foundations [46520]
159	shivam.rd21.013.0034@rdec.in	1999081	AWS Academy Cloud Foundations [46520]
160	shivam.rd21.013.0033@rdec.in	1999080	AWS Academy Cloud Foundations [46520]
161	shiva.rd21.013.0032@rdec.in	1999079	AWS Academy Cloud Foundations [46520]
162	saurabh.rd21.013.0031@rdec.in	1999078	AWS Academy Cloud Foundations [46520]
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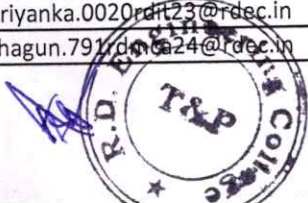
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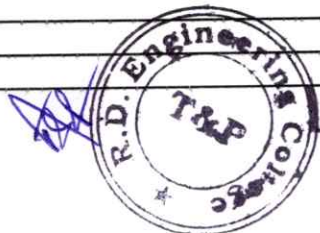
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20 hours

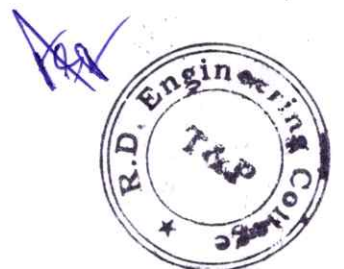
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A handwritten signature in blue ink, appearing to be "Abhishek Sharma".

Director
R.D. Engineering College
Duhai, Ghaziabad





VIDYA KUMARI

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

07/28/2023

Digital badge

<https://www.credly.com/go/cmYLWx6g>


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Ritik kumar

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Architecting

Course hours completed

40 hours

Issued on

07/28/2023

Digital badge

<https://www.credly.com/go/12iDW7fy>


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SHIV KUMAR

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Architecting

Course hours completed

40 hours

Issued on

07/26/2023

Digital badge

<https://www.credly.com/go/vKm19pZ3>

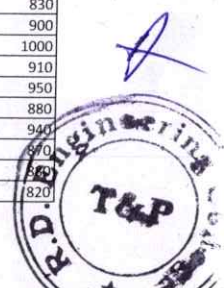

Director
R.D. Engineering College
Duhai, Ghaziabad



AWS Academy Cloud Foundations [26335]- Assessment Test

S.No.	Student Name	Student Points Possible	ID	SIS Login ID	Module 1	Module 2	Module 4	Module 5	Module 6	Module 7	Module 8	Module 9	Module 10	Module 3	Assignment (read only)	Assignment (read only)	Final Points (read only)	
1	Aakash tyagi	aakash.0001rdmeca22@rdec.in	1038434	aakash.0001rdmeca22@rdec.in	90	80	80	100	100	80	80	90	90	70	90	0	0	850
2	AASHISH	aashish.9001rdmeca22@rdec.in	1038439	aashish.9001rdmeca22@rdec.in	70	70	70	80	80	80	80	80	70	80	70	0	0	750
3	ABHISHEK SHARMA	abhishek.0006rdmeca22@rdec.in	1038442	abhishek.0006rdmeca22@rdec.in	100	100	100	100	100	100	100	100	100	100	100	0	0	1000
4	Aditya Kaushik	aditya.0006rdcs22@rdec.in	1038393	aditya.0006rdcs22@rdec.in	100	80	100	100	100	90	90	100	100	90	0	0	950	
5	Aftab	aftab.0002rdme22@rdec.in	1051726	aftab.0002rdme22@rdec.in	100	80	100	100	90	90	100	70	90	100	0	0	920	
6	Akhil	akhil.0009rdcs22@rdec.in	1038395	akhil.0009rdcs22@rdec.in	100	80	100	100	90	100	100	90	100	90	100	0	0	950
7	Anas	anas.0012rdcs22@rdec.in	1051711	anas.0012rdcs22@rdec.in	80	80	100	90	80	90	100	90	80	90	0	0	880	
8	Anjali Sharma	anjali.0010rdmeca22@rdec.in	1038443	anjali.0010rdmeca22@rdec.in	80	80	80	80	70	70	90	90	90	70	0	0	800	
9	Ankit Sharma	ankit.0014rdcs22@rdec.in	1038396	ankit.0014rdcs22@rdec.in	90	100	100	100	90	100	100	100	100	100	100	0	0	980
10	Aparna	aparna.0011rdcse22@rdec.in	1038422	aparna.0011rdcse22@rdec.in	70	70	80	100	100	100	100	80	80	80	0	0	860	
11	Ashutosh Tiwari	ashutosh.0022rdcs22@rdec.in	1038397	ashutosh.0022rdcs22@rdec.in	80	70	80	70	80	100	100	90	100	100	0	0	870	
12	Ashwani Sharma	ashwani.0019rdcse22@rdec.in	1038423	ashwani.0019rdcse22@rdec.in	80	90	90	90	80	80	100	100	100	80	90	0	0	880
13	Awnish Kumar	awnish.0013rdmeca22@rdec.in	1038444	awnish.0013rdmeca22@rdec.in	100	80	100	100	100	100	100	100	90	90	0	0	960	
14	Bhupender Kumar	bhupender.0004rdme22@rdec.in	1038411	bhupender.0004rdme22@rdec.in	100	80	90	100	100	100	100	100	100	90	0	0	1000	
15	Deepak Prajapati	deepak.0017rdmeca22@rdec.in	1051728	deepak.0017rdmeca22@rdec.in	100	70	90	80	80	100	100	100	90	100	0	0	960	
16	Deepak Prajapati	deepak.0025rdcse22@rdec.in	1038424	deepak.0025rdcse22@rdec.in	80	70	80	70	70	90	100	100	100	90	0	0	850	
17	Deepanshu	deepanshu.0028rdcs22@rdec.in	1038398	deepanshu.0028rdcs22@rdec.in	100	100	100	100	100	100	100	100	100	100	0	0	1000	
18	Gajendra	gajendra.0009rdme22@rdec.in	1038412	gajendra.0009rdme22@rdec.in	80	80	70	80	100	100	100	100	90	70	0	0	870	
19	Gaurangee malhotra	gaurangee.0031rdcse22@rdec.in	1038425	gaurangee.0031rdcse22@rdec.in	90	70	90	90	90	80	70	90	90	90	0	0	850	
20	Gunjan Singh	gunjan.0022rdmeca22@rdec.in	1038445	gunjan.0022rdmeca22@rdec.in	100	100	80	80	90	90	100	100	90	90	0	0	920	
21	Harsh Vardhan	harsh.0024rdmeca22@rdec.in	1038446	harsh.0024rdmeca22@rdec.in	70	70	90	80	90	80	100	100	100	80	0	0	860	
22	Hemant Kumar	hemant.0013rdme22@rdec.in	1038413	hemant.0013rdme22@rdec.in	70	70	90	70	80	90	80	70	80	80	0	0	780	
23	Km Pooja	km.0014rdit22@rdec.in	1038407	km.0014rdit22@rdec.in	90	100	100	100	100	100	100	100	100	90	0	0	970	
24	Mansi Saini	mansi.0033rdmeca22@rdec.in	1038447	mansi.0033rdmeca22@rdec.in	90	90	80	70	70	100	100	90	90	80	0	0	860	
25	Mayank Singh	mayank.0052rdcse22@rdec.in	1038427	mayank.0052rdcse22@rdec.in	70	80	100	90	80	80	80	90	80	80	0	0	830	
26	Mayank Singh	mayank.0053rdcse22@rdec.in	1051715	mayank.0053rdcse22@rdec.in	100	90	70	90	100	100	100	100	100	100	0	0	940	
27	Naseem	naseem.0034rdce22@rdec.in	1038409	naseem.0034rdce22@rdec.in	100	70	90	90	90	90	90	70	80	80	0	0	850	
28	Navit	navit.0040rdce22@rdec.in	1051723	navit.0040rdce22@rdec.in	90	80	100	100	80	100	90	90	100	90	0	0	920	
29	Neeraj	neeraj.0058rdcs22@rdec.in	1038399	neeraj.0058rdcs22@rdec.in	90	90	90	100	100	90	100	90	80	100	0	0	930	
30	Nikhil Chauhan	nikhil.0063rdcse22@rdec.in	1038428	nikhil.0063rdcse22@rdec.in	90	80	100	90	80	100	100	90	100	90	0	0	920	
31	Nishank Mishra	nishank.0065rdcse22@rdec.in	1038429	nishank.0065rdcse22@rdec.in	100	80	100	100	100	100	100	80	100	100	0	0	960	
32	Nishant Bhola	nishant.0066rdcse22@rdec.in	1038430	nishant.0066rdcse22@rdec.in	80	80	90	80	90	80	100	90	80	100	0	0	870	
33	Prachi	prachi.0042rdmeca22@rdec.in	1051730	prachi.0042rdmeca22@rdec.in	90	80	80	80	100	100	100	90	90	100	0	0	910	
34	Priya	priya.0072rdcse22@rdec.in	1038431	priya.0072rdcse22@rdec.in	80	80	90	70	80	90	100	100	80	100	0	0	870	
35	Priyanka	priyanka.0073rdcse22@rdec.in	1051716	priyanka.0073rdcse22@rdec.in	100	90	100	100	100	90	100	100	80	100	0	0	960	
36	Rahul Singh	rahul.0020rdme22@rdec.in	1038415	rahul.0020rdme22@rdec.in	100	90	100	100	100	100	100	90	100	100	0	0	980	
37	Rahul Singh	rahul.0078rdcs22@rdec.in	1038401	rahul.0078rdcs22@rdec.in	90	90	70	100	100	90	100	90	90	100	0	0	920	
38	Rishabh	rishabh.9007rdcs22@rdec.in	1051712	rishabh.9007rdcs22@rdec.in	100	90	100	90	100	80	100	100	90	90	0	0	940	
39	Ritika	ritika.0078rdcse22@rdec.in	1051717	ritika.0078rdcse22@rdec.in	100	90	90	100	100	100	100	100	90	100	0	0	970	
40	Riya	riya.0079rdcse22@rdec.in	1051718	riya.0079rdcse22@rdec.in	90	70	80	100	80	90	80	90	80	90	0	0	850	
41	Rohanshu	rohanshu.0084rdcs22@rdec.in	1038402	rohanshu.0084rdcs22@rdec.in	100	100	100	100	100	100	100	100	100	100	0	0	1000	
42	Rupal tyagi	rupal.0055rdmeca22@rdec.in	1038448	rupal.0055rdmeca22@rdec.in	100	80	80	90	80	80	80	90	100	90	0	0	870	
43	Sagar	sagar.0082rdcse22@rdec.in	1051719	sagar.0082rdcse22@rdec.in	80	80	70	30	90	90	90	90	100	100	0	0	820	
44	Shagun Chaudhary	shagun.0060rdmeca22@rdec.in	1051731	shagun.0060rdmeca22@rdec.in	100	90	80	100	100	90	90	90	90	90	0	0	920	
45	Shagun Chaudhary	shagun.0095rdcs22@rdec.in	1106456	shagun.0095rdcs22@rdec.in	100	100	100	100	90	100	100	90	100	90	0	0	970	
46	Shivam Sharma	shivam.0025rdme22@rdec.in	1051727	shivam.0025rdme22@rdec.in	90	90	90	100	90	100	100	100	100	80	0	0	940	
47	Shivam Sharma	shivam.0026rdme22@rdec.in	1038416	shivam.0026rdme22@rdec.in	100	100	100	90	90	80	90	90	100	90	0	0	930	
48	Sonu	sonu.0106rdcs22@rdec.in	1106457	sonu.0106rdcs22@rdec.in	90	90	70	100	100	90	100	80	80	90	0	0	890	
49	Sunny Kanojia	sunny.0099rdcse22@rdec.in	1106460	sunny.0099rdcse22@rdec.in	70	90	80	100	80	70	90	90	90	90	0	0	850	
50	Tushar	tushar.0101rdcse22@rdec.in	1038432	tushar.0101rdcse22@rdec.in	80	100	100	90	90	90	90	80	80	90	0	0	890	
51	TUSHAR	tushar.0112rdcs22@rdec.in	1038404	tushar.0112rdcs22@rdec.in	90	70	80	90	80	100	100	100	90	90	0	0	890	
52	Utkarsh Mishra	utkarsh.0115rdcs22@rdec.in	1038406	utkarsh.0115rdcs22@rdec.in	80	100	80	90	80	80	90	80	70	0	0	830		
53	Vaibhav Sagar	vaibhav.0028rdmeca22@rdec.in	1038437	vaibhav.0028rdmeca22@rdec.in	100	90	80	90	90	80	100	90	80	100	0	0	900	
54	Varsha Tyagi	varsha.0069rdmeca22@rdec.in	1038450	varsha.0069rdmeca22@rdec.in	100	100	100	100	100	100	100	100	100	100	0	0	1000	
55	Vikas	vikas.0106rdcse22@rdec.in	1051721	vikas.0106rdcse22@rdec.in	70	90	100	100	90	90	100	90	90	90	0	0	910	
56	Vishal Sharma	vishal.0032rdme22@rdec.in	1038417	vishal.0032rdme22@rdec.in	100	80	100	100	90	90	100	90	100	100	0	0	950	
57	Vishal Chauhan	vishal.0075rdmeca22@rdec.in	1038452	vishal.0075rdmeca22@rdec.in	70	80	80	100	90	100	90	80	90	100	0	0	880	
58	Vishesh Singhal	vishesh.0036rdit22@rdec.in	1038408	vishesh.0036rdit22@rdec.in	100	90	90	100	90	90	100	90	90	100	0	0	940	
59	Vivekshel	vivekshel.0033rdme22@rdec.in	1038418	vivekshel.0033rdme22@rdec.in	100	80	80	80	90	90	90	90	90	80	0	0	890	
60	Yash Kumar	yash.0031rdmeca22@rdec.in	1038438	yash.0031rdmeca22@rdec.in	90	80	90	100	90	80	90	80	80	100	0	0	870	
61	Yash Gupta	yash.0113rdcse22@rdec.in	1038433	yash.0113rdcse22@rdec.in	70	70	80	90	80	100	90	100	70	70	0	0	820	

R.D. Engineer
Director
D. K. S. S.





AAKASH TYAGI

Certificate of Completion for
AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

09/22/2022

Digital badge

<https://www.credly.com/go/dM671HoL>


Director
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Duhai, Ghaziabad





ABHISHEK SHARMA

Certificate of Completion for
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20 hours

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Duhai, Ghaziabad





Akhil Choudhary

Certificate of Completion for
AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

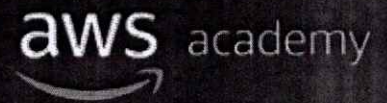
10/08/2022

Digital badge

<https://www.credly.com/go/y6SAQ7JL>


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Ashutosh Tiwari

Certificate of Completion for
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<https://www.credly.com/go/RQYn1WOF>

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Awnish Kumar

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Bhupender kumar

Certificate of Completion for
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Course hours completed

20 hours

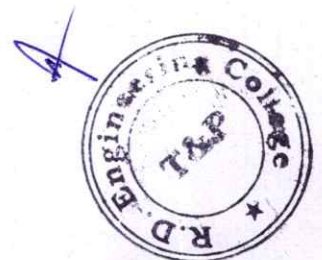
Issued on

10/02/2022

Digital badge

<https://www.credly.com/go/LlwWSmf7>


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DEEPAK KUMAR

Certificate of Completion for

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Course hours completed

20 hours

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Digital badge

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Deepanshu Gaur

Certificate of Completion for

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Course hours completed

20 hours

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<https://www.credly.com/go/4KLDMudn>


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Gajendra kumar

Certificate of Completion for

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Course hours completed

20 hours

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<https://www.credly.com/go/8PFnl3FB>


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gaurangee malhotra

Certificate of Completion for
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Course hours completed

20 hours

Issued on

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Digital badge

<https://www.credly.com/go/yll3z5qL>


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Harsh Vardhan

Certificate of Completion for
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Course hours completed

20 hours

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<https://www.credly.com/go/KD4INHnV>

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Hemant Kumar

Certificate of Completion for
AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

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Digital badge

<https://www.credly.com/go/pcpp8C7t>

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Mayank Singh

Certificate of Completion for
AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

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Digital badge

<https://www.credly.com/go/yVGcUCyn>

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Mayank Tyagi

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

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Digital badge

<https://www.credly.com/go/E8SVvk8q>


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Neeraj Kashyap

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

09/22/2022

Digital badge

<https://www.credly.com/go/RnMZUgTI>

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Nishank Mishra

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

10/04/2022

Digital badge

<https://www.credly.com/go/x7BjzdDI>


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Nishant Bhola

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AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

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Digital badge

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Priya K

Certificate of Completion for

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Course hours completed

20 hours

Issued on

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Digital badge

<https://www.credly.com/go/Hbye1X9o>

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Priyanka Verma

Certificate of Completion for
AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

09/27/2022

Digital badge

<https://www.credly.com/go/h4pSt6BA>

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Rahul Rahul

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

10/02/2022

Digital badge

<https://www.credly.com/go/nG1SUoEh>

A handwritten signature in blue ink, appearing to be 'R.D.' with a flourish.

Director
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Duhai, Ghaziabad





Rishab Sharma

Certificate of Completion for
AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

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Digital badge

<https://www.credly.com/go/L4du8xOT>


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Ritika Tiwari

Certificate of Completion for
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Course hours completed

20 hours

Issued on

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Digital badge

<https://www.credly.com/go/rTQuGhTx>


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Riya Aggarwal

Certificate of Completion for
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Course hours completed

20 hours

Issued on

10/07/2022

Digital badge

<https://www.credly.com/go/WMTIVeIn>


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SHIVAM RATHAUR

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

10/08/2022

Digital badge

<https://www.credly.com/go/TEKAO0vR>

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Duhai, Ghaziabad





Tushar Verma

Certificate of Completion for

AWS Academy Graduate - AWS Academy Cloud Foundations

Course hours completed

20 hours

Issued on

09/23/2022

Digital badge

<https://www.credly.com/go/9kP99n7i>


Director
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Duhai, Ghaziabad



aws  certified

Aditya Kaushik

AWS Certified Cloud Practitioner

VALIDATION NUMBER: C7Z9ZXZC6N411Z9K

VALIDATE AT: _____

Issue Date: Mar 13, 2023

Expiration Date: Mar 13, 2026


Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Bhupender kumar

AWS Certified Cloud Practitioner

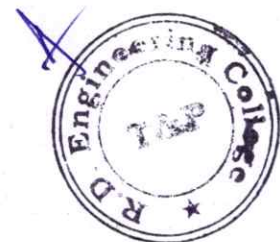
VALIDATION NUMBER: ZL5TNRMKR1V11E9Y

VALIDATE AT: _____

Issue Date: Feb 25, 2023

Expiration Date: Feb 25, 2026


Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Mayank Tyagi

AWS Certified Cloud Practitioner

VALIDATION NUMBER: GSD4FM52Q1VE119J

VALIDATE AT: _____

Issue Date: Nov 28, 2022

Expiration Date: Nov 28, 2025


Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Neeraj .

AWS Certified Cloud Practitioner

VALIDATION NUMBER: WBTRXWM251BQ1MKG

VALIDATE AT: _____

Issue Date: Dec 03, 2022

Expiration Date: Dec 03, 2025



Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

MO NSEEM ANSARI

AWS Certified Cloud Practitioner

VALIDATION NUMBER: KDSFZP5K6EVE155G

VALIDATE AT: _____

Issue Date: Feb 28, 2023

Expiration Date: Feb 28, 2026


Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Tushar .

AWS Certified Cloud Practitioner

VALIDATION NUMBER: TV6GH5JKREQ41HK6

VALIDATE AT: _____

Issue Date: Feb 20, 2023

Expiration Date: Feb 20, 2026


Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Vikas Kumar

AWS Certified Cloud Practitioner

VALIDATION NUMBER: 9HGXS0JC6NQE1NGF

VALIDATE AT: _____

Issue Date: Feb 23, 2023

Expiration Date: Feb 23, 2026


Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Viveksheel .

AWS Certified Cloud Practitioner

VALIDATION NUMBER: DPWZGSJ2Q2F11DKK

VALIDATE AT: _____

Issue Date: Dec 16, 2022

Expiration Date: Dec 16, 2025



Director
R.D. Engineering College
Duhai, Ghaziabad



aws  certified

Yash kumar

AWS Certified Cloud Practitioner

VALIDATION NUMBER: CBZQSR71Q1B11CGV

VALIDATE AT: _____

Issue Date: Dec 01, 2022

Expiration Date: Dec 01, 2025


Director
R.D. Engineering College
Duhai, Ghaziabad

