

[Collapse all](#)**▼ Course Welcome and Overview****Pre-Course Survey****Trends in Cloud Computing****Overview Video****Project Handout****Student Guide****How to complete lab exercises****Course Support****[Connect with AWS Academy and Educators](https://www.awsacademy.com/forums/s/)** [\(https://www.awsacademy.com/forums/s/\)](https://www.awsacademy.com/forums/s/)**▼ Module 1 - Understanding Systems Operations on AWS**[Complete all items](#)**Section 1 - Introduction****Section 2 - Overview of the Labs****Section 3 - AWS Identity and Access Management (IAM)****Demo - IAM****Demo - Amazon Command Line Interface****Activity 1 - Install and Configure the AWS CLI****Module 1 Wrapup Video**

**Optional Demo - IAM Policy Simulator (YouTube)****Student Guide****Module 1 Knowledge Check**

100 pts

Score at least 70.0

**▼ Module 2 - Tooling and Automation**

Complete all items

**Section 1 - Introduction****Section 2 - AWS Systems Manager****Section 3 - Additional Administration and Development Tools****Module 2 Wrap-up Video****Lab 1 - Using AWS Systems Manager****Activity 2 - Create a Website on S3****Student Guide****Module 2 Knowledge Check**

100 pts

Score at least 70.0

**▼ Module 3 - Computing Servers**

Complete all items

**Section 1 - Introduction****Section 2 - Amazon EC2 Virtualization****Demo - EC2****Section 3 - Amazon EC2 Instance Security Groups and Profiles**

	Section 4 - Managing Your AWS Instances	
	Section 5 - Securing Your EC2 Instances	
	Module 3 Wrap-up Video	
	Lab 2 - Creating Amazon EC2 Instances	
	Activity 3 - Troubleshoot Create Instance	
	Student Guide	
	Module 3 Knowledge Check 100 pts Score at least 70.0	☐

▼ Module 4 - Computing, Scaling, and Name Resolution		Complete all items
	Section 1 - Introduction	
	Section 2 - Scaling Amazon EC2 Instances	
	Section 3 - Amazon EC2 Autoscaling	
	Section 4 - Amazon Route 53	
	Demo - Amazon Route53 Routing Options	
	Lab 3 - Using Auto Scaling	
	Activity 4 - Route 53 Failover Routing	
	Module 4 Wrap-up Video	
	Student Guide	
	Module 4 Knowledge Check 100 pts Score at least 70.0	☐

▼ Module 5 - Computing, Containers, and Serverless

Complete all items

**Section 1 - Introduction****Section 2 - AWS Lambda****Activity 5 - Working with AWS Lambda****Demo - Introduction to AWS Step Functions****Section 3 - APIs and REST****Section 3b - Amazon API Gateway****Section 4 - Containers on AWS****Section 5 - AWS Fargate and Amazon Elastic Container Service****Demo - Deploy Docker Container on Amazon Elastic Container Service (ECS)****Module 5 Wrap-up Video****Student Guide****Module 5 Knowledge Check**

100 pts Score at least 70.0

**▼ Module 6 - Computing Database Services**

Complete all items

**Section 1 - Introduction****Section 2 - AWS Database Services****Section 3 - Amazon Relational Database Service (Amazon RDS)****Section 4 - Amazon Aurora****Demo - How to create your first Database Cluster on Amazon Aurora**

	Section 4b - Amazon DynamoDB	
	Section 5 - AWS Database Migration Service (AWS DMS)	
	Activity 6 - Migrate to Amazon RDS	
	Module 6 Wrap-up Video	
	Student Guide	
	Module 6 Knowledge Check 100 pts Score at least 70.0	☐

▼ Module 7 - Networking		Complete all items
	Section 1 - Introduction	
	Section 2 - AWS Cloud Networking	
	Section 2b - Amazon VPC Components	
	Section 3 - Amazon VPC Connectivity Options	
	Section 4 - Additional VPC Connectivity Options	
	Section 5 - Securing Your Network	
	Module 7 Wrap-up Video	
	Lab 4 - Configure VPC	
	Activity 7 - Troubleshoot a VPC	
	Student Guide	
	Module 7 Knowledge Check 100 pts Score at least 70.0	☐

▼ **Module 8 - Storing and Archiving**

Complete all items

**Section 1 - Introduction****Section 2 - Cloud Storage Overview****Section 3 - Amazon Elastic Block Store (Amazon EBS)****Section 4 - Amazon Elastic File System****Section 5 - Amazon S3****Section 6 - Amazon S3 Glacier****Module 8 Wrap-up Video****Lab 5 - Managing Storage****Activity 8 - Work with Amazon S3****Student Guide****Module 8 Knowledge Check**

100 pts Score at least 70.0

▼ **Module 9 - Monitoring and Security**

Complete all items

**Section 1 - Introduction****Section 2 - Amazon CloudWatch****Section 3 - Amazon CloudWatch Events****Section 4 - Amazon CloudTrail****Module 9 Wrap-up Video****Lab 6 - Monitoring Infrastructure**

**Activity 9 - Working with AWS CloudTrail****Student Guide****Module 9 Knowledge Check**

100 pts

Score at least 70.0

**▼ Module 10 - Managing Resource Consumption**

Complete all items

**Section 1 - Introduction****Section 2 - Tagging****Optional Video - What are tags and what can I do with them?****Section 3 - Cost Management Tools and Best Practices****Module 10 Wrap-up Video****Lab 7 - Managing Resources****Activity 10 - Optimize Utilization****Student Guide****Module 10 Knowledge Check**

100 pts

Score at least 70.0

**▼ Module 11 - Creating Automated and Repeatable Deployments**

Complete all items

**Section 1 - Introduction****Section 2 - Configuration and Management in the Cloud****Section 3 - Using Configuration Software**

	Section 4 - Amazon EC2 Launch Templates	
	Demo - Using EC2 Launch Templates	
	Section 5 - Introduction to JSON and YAML	
	Section 6 - AWS CloudFormation	
	Section 7 - AWS CloudFormation (Part 2)	
	Section 8 - AWS CloudFormation Part 3	
	Section 9 - Continuous Integration and Continuous Deployment on AWS	
	Module 11 Wrap-up Video	
	Lab 8 - Automation with CloudFormation	
	Activity 11-Troubleshoot CloudFormation	
	Student Guide	
	Module 11 Knowledge Check 100 pts Score at least 70.0	☐

▼ Certification Exam Preparation		
	Certification Resources	
	Exam preparation guide	
	Practice Exam 100 pts	
	Practice Questions in AWS Skill Builder	

▼ Sandbox**Sandbox Environment****▼ Feedback****End of Course Feedback Survey****▼ Badges and Completion Certificates**

Prerequisites: Module 1 - Understanding Systems Operations on AWS, Module 2 - Tooling and Automation, Module 3 - Computing Servers, Module 4 - Computing, Scaling, and Name Resolution, Module 5 - Computing, Containers, and Serverless, Module 6 - Computing Database Services, Module 7 - Networking, Module 8 - Storing and Archiving, Module 9 - Monitoring and Security, Module 10 - Managing Resource Consumption, Module 11 - Creating Automated and Repeatable Deployments

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