

AWS Ramp-Up Guide: Operations

For Systems Administrators and Systems Operations Professionals

AWS Training and Certification has created this and other **AWS Ramp-Up Guides** to help build your knowledge of the AWS Cloud. The Operations Ramp-Up Guide provides a prescriptive, yet flexible learning progression to gain foundational knowledge as well as a deeper knowledge of the five focus areas in Operations. Each expertly curated guide features free digital training, classroom courses, videos, whitepapers, certifications, and other information you're looking for.

Learn the fundamentals of the AWS Cloud

LEARNING RESOURCE	DURATION	TYPE
What is Cloud Computing?	10 minutes	Webpage »
Cloud Computing with AWS	10 minutes	Webpage »
AWS Glossary (Reference)	30 minutes	Whitepaper »
Overview of Amazon Web Services	2 hours	Whitepaper »
AWS Global Infrastructure Map*	15 minutes	Webpage »
<i>Introduction to Cloud Adoption Framework*</i>	20 minutes	Digital Training »
<i>Job Roles in the Cloud</i>	30 minutes	Digital Training »
<i>AWS Cloud Practitioner Essentials</i>	6 hours	Digital Training » Classroom Training »

Step 1: Dive deeper into AWS Cloud fundamentals, including AWS pricing and cost management

LEARNING RESOURCE	DURATION	TYPE
How AWS Pricing Works	45 minutes	Whitepaper »
<i>Introduction to AWS Billing and Cost Management</i>	10 minutes	Digital Training »
<i>AWS Shared Responsibility Model</i>	5 minutes	Digital Training »
<i>AWS Technical Essentials</i>	1 day	Classroom Training »

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Step 2: Learn the prerequisites for effective cloud design and operations

LEARNING RESOURCE	DURATION	TYPE
AWS Well-Architected Framework	2 hours	Whitepaper »
AWS Well-Architected Lenses (industry, and technology domain view)*	10 minutes	Webpage »
<i>AWS Identity and Access Management - Architecture and Terminology (AWS Support), Digital*</i>	15 minutes	Digital Training »
<i>Introduction to Amazon Virtual Private Cloud (VPC)</i>	10 minutes	Digital Training »
<i>Subnets, Gateways, and Route Tables Explained</i>	20 minutes	Digital Training »
<i>Amazon Route 53 - Amazon Route 53 – Basics (Network Administrator focus)*</i>	20 minutes	Digital Training »
<i>Introduction to AWS Auto Scaling</i>	10 minutes	Digital Training »
<i>Introduction to AWS Command Line Interface (CLI)</i>	10 minutes	Digital Training »
Amazon Virtual Private Cloud Connectivity Options (Network Administrator focus)	45 minutes	Whitepaper »

Step 3: Build a foundation for cloud operations

LEARNING RESOURCE	DURATION	TYPE
<i>Introduction to AWS Management Console*</i>	20 minutes	Digital Training »
<i>Deep Dive into Amazon Simple Storage Service (Amazon S3)</i>	2.5 hours	Digital Training »
<i>Systems Operations on AWS</i>	3 days	Classroom Training »
Automating AWS Services with Scripting and the AWS CLI*	75 minutes	Hands-On Lab »
AWS Tools for Windows PowerShell: Getting Started*	60 minutes	Hands-On Lab »

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Step 4: Dive deeper into one or more focus areas (4.1 – 4.5)

Step 4.1: Dive deeper into enterprise governance and control

LEARNING RESOURCE	DURATION	TYPE
Amazon Web Services: Overview of Security Processes	2 hours	Whitepaper »
AWS Account Structure Considerations*	10 minutes	Whitepaper »
<i>Introduction to AWS Organizations*</i>	10 minutes	Digital Training »
Implementing your multi-account AWS Environments*	50 minutes	Video »
Using AWS Control Tower to Govern Multi-Account AWS Environments*	45 minutes	Video »

Step 4.2: Dive deeper into monitoring and observability

LEARNING RESOURCE	DURATION	TYPE
<i>Introduction to Amazon CloudWatch*</i>	10 minutes	Digital Training »
<i>Introduction to Amazon CloudWatch Logs*</i>	10 minutes	Digital Training »
<i>Introduction to Amazon CloudWatch Logs Insights*</i>	10 minutes	Digital Training »
Collect Metrics and Logs from Amazon EC2 instances with the CloudWatch Agent*	12 minutes	Video »
CloudWatch Tutorials	2 hours	Tutorials »
Monitoring Security Groups with Amazon CloudWatch Events	1 hour	Hands-On Lab »
Serverless Architectures using Amazon CloudWatch Events and Scheduled Events with AWS Lambda	75 minutes	Hands-On Lab »
Using AWS Lambda with Amazon CloudWatch and SNS to Implement a Slack Chat Bot	1 hour	Hands-On Lab »
Collecting and Analyzing Logs with Amazon CloudWatch Logs Insights	90 minutes	Hands-On Lab »
Monitoring and Observability: One Observability Demo	3.5 hours	Workshop »

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Step 4.2 continued: Dive deeper into monitoring and observability

LEARNING RESOURCE	DURATION	TYPE
<i>Amazon EventBridge Overview and Integration with SaaS Applications*</i>	30 minutes	Digital Training »
<i>Introduction to AWS Trusted Advisor*</i>	10 minutes	Digital Training »

Step 4.3: Dive deeper into centralized operations management

LEARNING RESOURCE	DURATION	TYPE
<i>AWS Systems Manager*</i>	190 minutes	Digital Training »
AWS Inventory and Patch Management Well-Architected Lab	2 hours	Workshop »
AWS Prescriptive Guidance - Backup and Recovery Approaches using AWS*	2 hours	Whitepaper »
<i>CloudEndure Disaster Recovery Technical Training*</i>	90 minutes	Digital Training »
Introduction to AWS OpsWorks*	55 minutes	Hands-On Lab »
AWS Systems Manager Capabilities	2 hours	Hands-On Lab »

Step 4.4: Dive deeper into configuration, compliance, and auditing

LEARNING RESOURCE	DURATION	TYPE
<i>Introduction to AWS CloudTrail*</i>	10 minutes	Digital Training »
<i>Introduction to AWS Config*</i>	10 minutes	Digital Training »
Enforce compliance with AWS Config*	10 minutes	Video »
Manage Software Licenses with AWS License Manager*	7 minutes	Video »
Monitoring security groups with AWS Config*	1 hour	Hands-On Lab »

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Step 4.5: Dive deeper into provisioning and orchestration

LEARNING RESOURCE	DURATION	TYPE
Infrastructure as Code	45 minutes	Whitepaper »
<i>Introduction to AWS CloudFormation*</i>	10 minutes	Digital Training »
Introduction to AWS CloudFormation Designer*	40 minutes	Hands-On Lab »
Creating an Amazon Virtual Private Cloud (VPC) with AWS CloudFormation*	1 hour	Hands-On Lab »
Introduction to AWS CloudFormation*	45 minutes	Hands-On Lab »
Launching and Managing a Web Application with AWS CloudFormation*	2 hours	Hands-On Lab »
<i>Introduction to AWS Marketplace*</i>	10 minutes	Digital Training »
<i>Introduction to AWS Service Catalog*</i>	10 minutes	Digital Training »
Build VPC, S3, EC2, and RDS Products with AWS Service Catalog	2 hours	Hands-On Lab »

Step 5: Synthesize learning with the help of capstone resources

LEARNING RESOURCE	DURATION	TYPE
Managing your AWS Infrastructure at Scale	45 minutes	Whitepaper »
Deploy a reliable multi-tier infrastructure using CloudFormation	4 hours	Workshop »
SysOps Administrator - Associate quest	7 hours	Hands-On Lab »
SysAdmin on AWS for Windows	5 hours	Hands-On Lab »

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Step 6: Prepare for, and take the AWS Certified SysOps Administrator – Associate certification

LEARNING RESOURCE	DURATION	TYPE
<i>Exam Readiness: AWS Certified SysOps Administrator – Associate</i>	1.5 hours	Digital Training » Classroom Training »
AWS Certified SysOps Administrator – Associate	2 hours	Exam »

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Explore additional resources		
LEARNING RESOURCE	DESCRIPTION	
Learning Library	Continue to learn by exploring our extensive portfolio of free digital training and classroom training. Filter according to your preferences, or find a specific course using the “Search” box.	Explore »
AWS Whitepapers & Guides	Explore technical whitepapers, technical guides, reference material, and reference architecture diagrams, all authored by AWS and the AWS community.	Explore »
AWS User Group	Join and connect with AWS users all over the world to share ideas and learn.	Explore »
AWS Events & Webinars	Connect with, collaborate with, and learn from AWS experts.	Explore »
AWS Podcast	Listen and learn about AWS.	Explore »
AWS Blog	Read about the latest launches from AWS Technical Evangelist Jeff Barr and others.	Explore »
AWS Documentation	Search for AWS service guides, API references, tutorials, projects, SDKs, and toolkits.	Explore »
AWS Knowledge Center	Review AWS Support’s responses to AWS customers’ most frequently asked questions.	Explore »
AWS FAQs	Find answers to product- and technical-related frequently asked questions.	Explore »
AWS Hands-On Tutorials	Get started with 10-minute, step-by-step tutorials to launch your first application.	Explore »
AWS Solutions Library	Use vetted, technical reference implementations designed to help you solve common problems and build faster.	Explore »
AWS YouTube Channel	Explore a wide variety of AWS topics by watching videos created by AWS experts across the world.	Explore »

For a training plan customized for your requirements,
contact your AWS Account Manager or contact us [here](#)

We would love to hear from you.
Provide your feedback on this AWS Ramp-Up Guide [here](#)