

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. Each expertly curated guide features free digital training, classroom courses, videos, whitepapers, certifications, and other information you're looking for. To enroll in training and certification exams, and track your progress, visit **aws.training** and set up a free account. To provide suggestions on Ramp-Up Guides, please contact **rampupguides@amazon.com**.

Learn the fundamentals of the AWS Cloud

LEARNING RESOURCE	DURATION	TYPE
AWS Ramp-Up Guide: Cloud Practitioner	10 minutes	Ramp-Up Guide »

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

LEARNING RESOURCE	DURATION	TYPE
How AWS Pricing Works	3.5 hours	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>How AWS Managed Services (AMS) Works Within Cloud Operating Models</i>	15 minutes	Digital Training »
<i>AWS Managed Services (AMS): Introduction</i>	20 minutes	Digital Training »
AWS Technical Essentials	1 day	Classroom Training »

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

LEARNING RESOURCE	DURATION	TYPE
AWS Well-Architected Framework	7 hours	Whitepaper »
AWS Well-Architected	10 minutes	Webpage »
<i>AWS Identity and Access Management - Architecture and Terminology</i>	15 minutes	Digital Training »
<i>Introduction to Amazon Virtual Private Cloud (VPC)</i>	10 minutes	Digital Training »

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

LEARNING RESOURCE	DURATION	TYPE
<i>Subnets, Gateways, and Route Tables Explained</i>	20 minutes	Digital Training »
<i>Amazon Route 53 - Amazon Route 53 – Basics</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	3 hours	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>	10 hours	Digital Training »
<i>Systems Operations on AWS</i>	3 days	Classroom Training »
Automating AWS Services with Scripting and the AWS CLI	75 minutes	Self-Paced Lab »
AWS Tools for Windows PowerShell: Getting Started*	50 minutes	Self-Paced Lab »

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
AWS Account Structure Considerations	10 minutes	Whitepaper »
<i>Introduction to AWS Organizations</i>	10 minutes	Digital Training »

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

Step 4.1 continued: Dive deeper into enterprise governance and control

LEARNING RESOURCE	DURATION	TYPE
Implementing Your Landing Zone	50 minutes	Video »
AWS Managed Services Console Walkthrough	15 minutes	Digital Training »
AWS Managed Services (AMS): Provisioning	30 minutes	Digital Training »
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	Self-Paced Lab »
Using AWS Lambda with Amazon CloudWatch and SNS to Implement a Slack Chat Bot	55 mins	Self-Paced Lab »
Collecting and Analyzing Logs with Amazon CloudWatch Logs Insights	90 minutes	Self-Paced Lab »
Monitoring and Observability: One Observability Demo	3.5 hours	Workshop »
<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 »

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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*	3 hours	Whitepaper »
<i>CloudEndure Disaster Recovery Technical Training</i>	90 minutes	Digital Training »
Introduction to AWS OpsWorks	55 minutes	Self-Paced Lab »
AWS Systems Manager Capabilities	2 hours	Self-Paced 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	Self-Paced Lab »

Step 4.5: Dive deeper into provisioning and orchestration

LEARNING RESOURCE	DURATION	TYPE
Infrastructure as Code	3 hours	Whitepaper »
Introduction to AWS CloudFormation	10 minutes	Digital Training »
Troubleshooting: AWS CloudFormation Stacks	30 minutes	Digital Training »

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Step 4.5 continued: Dive deeper into provisioning and orchestration

LEARNING RESOURCE	DURATION	TYPE
Introduction to AWS CloudFormation Designer	40 minutes	Self-Paced Lab »
Creating an Amazon Virtual Private Cloud (VPC) with AWS CloudFormation	1 hour	Self-Paced Lab »
Introduction to AWS CloudFormation	45 minutes	Self-Paced Lab »
Introduction to AWS Marketplace	10 minutes	Digital Training »
Introduction to AWS Service Catalog	10 minutes	Digital Training »
Build VPC, S3, EC2, and RDS Products with AWS Service Catalog	2 hours	Self-Paced Lab »

Step 5: Synthesize learning with the help of capstone resources

LEARNING RESOURCE	DURATION	TYPE
Deploy a reliable multi-tier infrastructure using CloudFormation	4 hours	Workshop »
Introduction to AWS Identity and Access Management (IAM)	25 mins	Self-Paced Lab »
Automating AWS Services with Scripting and the AWS CLI	75 mins	Self-Paced Lab »
Launching and Managing a Web Application with AWS CloudFormation	50 mins	Self-Paced Lab »
AWS Federated Authentication with AD FS	2 hours	Self-Paced Lab »

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 »
<i>AWS Certified SysOps Administrator – Associate</i> certification exam	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.	Explore »
AWS Whitepapers & Guides	Explore technical whitepapers, guides, reference material, and architecture diagrams.	Explore »
AWS User Group	Join and connect with AWS users all over the world to share ideas and learn.	Explore »
AWS Events and 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 common Product and Technical 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.

Contact us

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