

AWS Ramp-Up Guide: DevOps

For DevOps engineers



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 Developer and Operations roles

LEARNING RESOURCE	DURATION	TYPE
AWS Ramp-Up Guide: Developer	10 minutes	Ramp-Up Guide »
AWS Ramp-Up Guide: Operations	10 minutes	Ramp-Up Guide »

Step 1: Get started with DevOps on AWS

LEARNING RESOURCE	DURATION	TYPE
<i>Getting Started with DevOps on AWS</i>	60 minutes	Digital Training »
Getting Started with DevOps on AWS (Lab)	2 hours	Self-Paced Lab »
Introduction to DevOps on AWS	30 minutes	Whitepaper »

Step 2: Learn about development environments

LEARNING RESOURCE	DURATION	TYPE
AWS SDKs, Toolkits, and more	30 minutes	Webpage »
<i>Introduction to AWS Command Line Interface (CLI)</i>	10 minutes	Digital Training »
AWS CloudShell – Command-Line Access to AWS Resources	5 minutes	Blog Post »
Cloud9 Tutorial	1 hour	Tutorial »
AWS Cloud9 Cloud-Based IDE	1 hour	Solution »

AWS Ramp-Up Guide: DevOps

For DevOps engineers



Step 3: Learn about version control with AWS

LEARNING RESOURCE	DURATION	TYPE
AWS CodeCommit	10 minutes	Video »
Working with AWS CodeCommit	40 mins	Self-Paced Lab »
Working with AWS CodeCommit on Windows	70 mins	Self-Paced Lab »
Using AWS CodePipeline and AWS CodeStar Connections to deploy from Bitbucket	15 minutes	Blog »

Step 4: Learn how to build and manage Infrastructure as Code

LEARNING RESOURCE	DURATION	TYPE
Infrastructure as Code	5 minutes	Whitepaper »
Introduction to AWS CloudFormation	45 mins	Self-Paced Lab »
Creating an Amazon Virtual Private Cloud (VPC) with AWS CloudFormation	1 hour	Self-Paced Lab »
Launching and Managing a Web Application with AWS CloudFormation	50 mins	Self-Paced Lab »
Introduction to AWS CloudFormation Designer	40 mins	Self-Paced Lab »
<i>AWS Cloud Development Kit Primer</i>	90 minutes	Digital Training »
AWS Cloud Development Kit (Lab)	2 hours	Self-Paced Lab »
AWS Cloud Development Kit (Workshop)	4 hours	Workshop »
Working with the AWS Cloud Development Kit and AWS Construct Library*	30 minutes	Blog Post »
Simplifying Application Building with AWS Solutions Constructs and the AWS CDK	30 minutes	Video »

Step 5: Learn about continuous integration on AWS

AWS Ramp-Up Guide: DevOps

For DevOps engineers



LEARNING RESOURCE	DURATION	TYPE
Getting started with AWS CodeBuild	1 hour	Tutorial »
Build Applications Locally Using AWS CodeBuild	5 minutes	Video »
Improve the Quality of Your Java Code Using Amazon CodeGuru Reviewer	6 minutes	Video »
Setting up a CI/CD pipeline by integrating Jenkins with AWS CodeBuild and AWS CodeDeploy	30 minutes	Blog »

Step 6: Learn to create and manage CI/CD Pipelines

LEARNING RESOURCE	DURATION	TYPE
<i>DevOps Engineering on AWS</i>	3 days	Classroom Training »
<i>Advanced Testing Practices using AWS DevOps Tools</i>	2.5 hours	Digital Training »
Learn about Amazon CI/CD Practices for Software Development Teams	50 minutes	Video »
Learn how Amazon goes faster with Continuous Delivery	45 minutes	Webpage »
Building end-to-end AWS DevSecOps CI/CD pipeline with open source SCA, SAST and DAST tools	1 hour	Blog Post »
DevSecOps on AWS workshop	2 hours	Workshop »

Step 7: Learn how to automate various deployment types

LEARNING RESOURCE	DURATION	TYPE
Introduction to CodeDeploy	80 minutes	Self-Paced Lab »
Blue/green and Canary deployments for Amazon EKS and Amazon ECS	90 minutes	Workshop »
CI/CD for serverless applications	1 hour	Workshop »

Step 7 continued: Learn how to automate various deployment types

AWS Ramp-Up Guide: DevOps

For DevOps engineers



LEARNING RESOURCE	DURATION	TYPE
CI/CD with AWS Fargate	60 minutes	Workshop »
CI/CD Pipeline for AWS CloudFormation templates on AWS	30 minutes	Tutorial »

Step 8: Learn about observability

LEARNING RESOURCE	DURATION	TYPE
Observability workshop	2 hours	Workshop »
Continuous improvement of code quality with Amazon CodeGuru	30 minutes	Video »

Step 9: Learn about DevOps cultural philosophies

LEARNING RESOURCE	DURATION	TYPE
Leadership Session: Developer Tools on AWS	50 minutes	Video »
Using a Cloud Center of Excellence (CCOE) to Transform the Entire Enterprise	20 minutes	Blog Post »
Driving change and building a high-performance DevOps culture	1 hour	Video »

Step 10: Prepare for and take the AWS Certified DevOps Engineer – Professional certification exam

LEARNING RESOURCE	DURATION	TYPE
<i>Exam Readiness: AWS Certified DevOps Engineer - Professional</i>	7 hours	Digital Training »
AWS Certified DevOps Engineer – Professional certification exam	3 hours	Exam »

AWS Ramp-Up Guide: DevOps

For DevOps engineers



Explore additional resources		
LEARNING RESOURCE	DESCRIPTION	
Learning Library	Continue to learn by exploring our extensive portfolio of free digital and classroom training.	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 technical reference implementations 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 »
AWS Architecture Center	Explore reference architecture diagrams, vetted architecture solutions, and best practices.	Explore »
Amazon's Builders' Library	Learn how Amazon builds and operates software.	Explore »
AWS Twitch Channel	Learn how millions of customers are currently leveraging AWS Cloud products and solutions.	Explore »
AWS Security Documentation	Configure AWS services to meet your security and compliance objectives.	Explore »

For a training plan customized for your requirements, contact your AWS Account Manager or contact us.

[Contact us](#)

We would love to hear from you.

Provide your feedback on this AWS Ramp-Up Guide.

[Provide feedback](#)