AWS Ramp-Up Guide: Developer

Learn how to build modern applications on AWS using microservices, containers, and serverless technologies using the programming language of your choice. You'll also be exposed to the foundational principles of DevOps and continuous integration/continuous delivery (CI/CD) on AWS. This guide can also help prepare you for the AWS Certified Developer – Associate certification exam. If you're interested specifically in digital courses and labs to help you develop these skills, explore the Developer Learning Plan at **explore.skillbuilder.aws**. To provide suggestions on Ramp-Up Guides, please contact **rampupguides@amazon.com.**

Step 1: Learn AWS developer fundamentals

Learning Resource	Duration	Type
Tools to Build on AWS	30 minutes	Webpage
Introduction to AWS Elastic Beanstalk	10 minutes	Digital Training
Getting Started with .NET on AWS	90 minutes	Digital Training
Getting Started with .NET on AWS	2 hours	Self-paced Lab
Learn how to migrate your ASP.NET app to AWS in minutes!	30 minutes	Tutorial
Learn the basics of Python on AWS	90 minutes	Workshop
Developing on AWS	3 days	Classroom Training

Step 2: Learn to build modern applications

Learning Resource	Duration	Type
Implementing Microservices on AWS	1 hours	Whitepaper
Building Modern Applications at AWS	25 minutes	Video
Building Modern Java Applications on AWS	18 hours	Coursera Digital Training edX Digital Training »
Building Modern Node.js Applications on AWS	18 hours	Coursera Digital Training edX Digital Training »
Building Modern Python Applications on AWS	18 hours	Coursera Digital Training edX Digital Training »
Accelerating Messaging Modernization with Amazon MQ	30 minutes	Digital Training
Modern Application Development on AWS	1 hour	Whitepaper

Step 3: Learn all about containers

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Learning Resource	Duration	Type
Introduction to Containers	15 minutes	Digital Training
Introduction to AWS Fargate	10 minutes	Digital Training
Building Containerized Applications on AWS	10 hours	Coursera Digital Training »
AWS App2Container – A New Containerizing Tool for Java and .NET Applications	30 minutes	Blog Post
Deep Dive on AWS Fargate: Building Serverless Containers at Scale	40 minutes	Digital Training
Deep Dive on Container Security	30 minutes	Digital Training

Step 3.1: Learn about Amazon Elastic Container Service (Amazon ECS)		
Learning Resource	**Duration**	**Type**
Amazon Elastic Container Service (ECS) Primer	30 minutes	Digital Training
ECS Workshop	2 hours	Workshop
Best practices for CI/CD using AWS Fargate and Amazon ECS	60 minutes	Video
Introduction to Amazon Elastic Container Service	50 mins	Self-paced Lab >>
Introduction to Amazon Elastic Container Registry	57 mins	Self-paced Lab >>
Working with Amazon Elastic Container Service	55 mins	Self-paced Lab >>

Step 3.2: Learn about Amazon Elastic Kubernetes Service (Amazon EKS)		
Learning Resource	**Duration**	**Type**
Amazon Elastic Kubernetes Service (EKS) Primer	1 hour	Digital Training
Running Containers on Amazon Elastic Kubernetes Service (Amazon EKS)	3 days	Classroom Training
EKS Workshop	2 hours	Workshop
De-mystifying cluster networking for Amazon EKS Worker nodes	30 minutes	Blog Post

Step 4: Learn all about serverless fundamentals		
Learning Resource	**Duration**	**Type**
Introduction to Serverless Development	25 minutes	Digital Training
Getting into a Serverless Mindset	30 minutes	Digital Training
AWS Lambda Foundations	1 hour	Digital Training
Amazon API Gateway for Serverless Applications	75 minutes	Digital Training
Amazon DynamoDB for Serverless Architectures	2 hours	Digital Training

Getting Started with Lambda Tutorial	20 minutes	Tutorial

Step 4.1: Dive deeper with serverless

Learning Resource	Duration	Type
Developing Serverless Solutions on AWS	3 days	Classroom Training
Introduction to Lambda	45 minutes	Self-paced Lab >>
Introduction to Amazon API Gateway	55 minutes	Self-paced Lab >>
Architecting Serverless Solutions	3 hours	Digital Training
Innovator Island serverless workshop	2 hours	Workshop
	5 hours	Video
Build a Modern Web Application in your preferred language	2 hours	Workshop
Modernization Workshops with 3rd Party Integration	2 hours	Workshop
Security Overview of AWS Lambda	1 hour	Whitepaper
Create a near real-time multiplayer game built on AWS	2 hours	Workshop
AWS Serverless Ramp-Up Guide		Ramp-Up Guide

Step 5: Get started with DevOps on AWS

Learning Resource	Duration	Type
Getting Started with DevOps on AWS	60 minutes	Digital Training
CI/CD for serverless applications	1 hour	Workshop
Build and Deploy APIs with a Serverless CI/CD	45 minutes	Digital Training
AWS DevOps Ramp-Up Guide		Ramp-Up Guide

Step 6: Prepare for and take the AWS Certified Developer - Associate certification exam

Learning Resource	Duration	Type
Exam Readiness: AWS Certified Developer – Associate	2 hours	Digital Training
AWS Certified Developer – Associate exam	2 hours	Exam

Step 7: Learn how to quickly and easily build secure and scalable full stack applications

Learning Resource	Duration	Type

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Build web and mobile apps with AWS Amplify	30 minutes	[Tutorial](#)
Build a React Application using AWS Amplify	50 minutes	[Tutorial](#)
Build a Full-Stack iOS App using AWS Amplify	45 minutes	[Tutorial](#)
Mobile applications how to blog directory	30 minutes	[Blog Posts](#)

Step 8: Continue your learning with advanced topics		
Learning Resource	**Duration**	**Type**
Advanced Developing on AWS	3 days	[Classroom Training](#)
Instrumenting distributed systems for operational visibility	60 minutes	[Webpage](#)

Explore additional resources		
Learning Resource	**Description**	**Type**
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	Authored by AWS and the AWS community, explore technical whitepapers, technical guides, reference material, and reference 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. Key events include AWS.	[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 »
AWS Architecture Center	Explore reference architecture diagrams, vetted architecture solutions, Well-Architected best practices, patterns, icons, and more.	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 to build sophisticated applications with increased flexibility, scalability and reliability.	Explore »
AWS Twitch for Developers	Join the developer education and community with AWS Live Video.	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 **here**

We would love to hear from you.
Provide your feedback on this AWS Ramp-Up Guide **here**

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