

AWS Ramp-Up Guide: Developer

For Developers, Engineers, and DevOps Engineers

AWS Training and Certification builds your competence, confidence, and credibility through practical cloud skills that help you innovate and build your future. Use this go-to reference guide to ramp up your knowledge of fundamentals, concepts, and best practices for developing in the AWS Cloud. You'll find free digital training offerings, classroom courses, videos, whitepapers, certifications, and other resources. It's all selected by AWS experts to teach you in-demand cloud skills and the real-world knowledge you can use right away to grow your career. To enroll in training and certification exams, and track your progress, visit aws.training and set up a free account.

Phase	Recommended Learning Resource	Duration	Type
Phase 0 Learn the fundamentals of AWS Cloud	– What is Cloud Computing?	10 minutes	Webpage
	– Overview of AWS	2 hours	Whitepaper
	– AWS Cloud Practitioner Essentials (Second Edition) free digital course or classroom course	6+ hours	Training
	– Cloud Computing with AWS	10 minutes	Webpage
	– AWS Glossary with definitions of key terms and concepts	30 minutes	Webpage
	– Job Roles in the Cloud free digital course	30 minutes	Training
Phase 1 Learn cloud developer fundamentals	– How AWS Pricing Works	45 minutes	Whitepaper
	– AWS Well-Architected Framework	2 hours	Whitepaper
	– AWS Technical Essentials classroom course	1 day	Classroom
	– AWS Shared Responsibility Model free digital course	5 minutes	Training
	– Shared Responsibility Model	10 minutes	Webpage
	– Architecting for the Cloud: AWS Best Practices	1+ hour	Whitepaper
	– Tools to Build on AWS (click on your preferred programming language, then review the SDK, IDE options, and the Getting Started documentation page)	30 minutes	Webpage
Phase 2 Learn cloud developer concepts and best practices	– Introduction to AWS Elastic Beanstalk free digital course	10 minutes	Training
	– AWS Security Best Practices	2 hours	Whitepaper
	– Developing on AWS classroom course	3 days	Classroom
	– Practicing Continuous Integration and Continuous Delivery on AWS	1 hour	Whitepaper
	– AWS Certified Cloud Practitioner certification exam (recommended for those with at least six months of hands-on experience with AWS)	1.5 hours	Exam
	– AWS Developer: Building on AWS self-paced digital course on edX	18+ hours	Training
	– Learn how Amazon builds and operates software	2 hours	Webpage
Phase 3 Learn all about containers	– Getting started with Docker on AWS	45 minutes	Video
	– Running Containerized Microservices on AWS	1+ hours	Whitepaper
	– Amazon Elastic Container Service (ECS) Primer free digital course	30 minutes	Training
	– Building and Deploying Containers Using Amazon Elastic Container Service	1.5 hours	Hands-on lab

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Phase 3 continued	<ul style="list-style-type: none"> – Amazon Elastic Container Service for Kubernetes (EKS) Primer free digital course – EKS Workshop or ECS Workshop (depending on your interest) – Deep Dive on Container Security free digital course – Introduction to Fargate – Docker on Amazon ECS Fargate Using CloudFormation – Deep Dive Into Container Networking - AWS Online Tech Talks – Microservices on AWS whitepaper – AWS Developer: Deploying on AWS self-paced digital course on edX 	1 hour 2+ hours 30 minutes 40 minutes 36 minutes 48 minutes 1+ hours 18+ hours	Training Workshop Training Video Video Video Whitepaper Training
Phase 4 Learn all about serverless	<ul style="list-style-type: none"> – Getting Started with Serverless Architectures (from AWS re:Invent) – Serverless Architectural Patterns and Best Practices (from AWS re:Invent) – Serverless Architectures with AWS Lambda – Amazon DynamoDB for Serverless Architectures free digital course – Optimizing Enterprise Economics with Serverless Architectures – AWS Lambda Foundations free digital course – Import Windows Server to Amazon EC2 with PowerShell – Amazon API Gateway for Serverless Applications free digital course – Serverless Design with AWS Lambda – Lambda Getting Started – Build and Deploy APIs with a Serverless CI/CD free digital course – AWS Serverless Wild Rydes Workshops: Web Application, Data Processing, DevOps, Image Processing, and Multi Region on GitHub – Deep Dive on AWS Fargate: Building Serverless Containers at Scale free digital course – Build a Serverless Text-to-Speech Application with Amazon Polly – Serverless Architectures using Amazon CloudWatch Events and Scheduled Events with AWS Lambda 	46 minutes 1 hour 1 hour 2 hours 45 minutes 1 hour 30 minutes 75 minutes 4 hours 5 minutes 45 minutes 1 hour 40 minutes 1.5 hours 1.5 hours	Video Video Whitepaper Training Whitepaper Training Whitepaper Training Hands-on lab Tutorial Training Tutorial Training Hands-on lab Hands-on lab
Phase 5 Prepare for and take the AWS Certified Developer - Associate certification exam	<ul style="list-style-type: none"> – AWS Developer: Optimizing on AWS self-paced digital course on edX – Exam Readiness: AWS Certified Developer – Associate free digital course or classroom course – AWS Certified Developer – Associate certification exam (recommended for those with at least one year of hands-on experience with developing an AWS-based application) 	18+ hours 2+ hours 2+ hours	Training Training Exam

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Phase	Recommended Learning Resource	Duration	Type
Phase 5 continued	<ul style="list-style-type: none"> – Advanced Developing on AWS classroom course – AWS Development Tools Services Overview free digital course – Introduction to AWS CloudFormation free digital course – Introduction to AWS CodeBuild free digital course – Introduction to AWS CodeCommit free digital course – Introduction to AWS CodePipeline free digital course – Introduction to AWS CodeStar free digital course – Introduction to AWS Config free digital course – Introduction to AWS X-Ray free digital course – Introduction to DevOps on AWS – Blue/Green Deployments on AWS – Infrastructure as Code – DevOps Engineering on AWS classroom course – Developing Machine Learning Applications free digital course – Development and Test on AWS – Learn about Amazon CI/CD Practices for Software Development Teams 	3 days 5 minutes 10 minutes 10 minutes 15 minutes 10 minutes 10 minutes 10 minutes 10 minutes 10 minutes 30 minutes 1 hour 1+ hour 3 days 2.5 hours 30 minutes 30 minutes	Classroom Training Training Training Training Training Training Training Training Whitepaper Whitepaper Whitepaper Classroom Training Whitepaper Webpage
Phase 6 Prepare for and take the AWS Certified DevOps Engineer – Professional certification exam	<ul style="list-style-type: none"> – 2019 DevOps at Amazon Fireside Chat – Jenkins on AWS – Learn about Git WebHooks – Get hands-on the Git Webhooks with AWS services Quick Start – Exam Readiness: AWS Certified DevOps Engineer - Professional free digital course or classroom course – Accelerating Software Delivery with DevOps – AWS Certified DevOps Engineer - Professional certification exam (recommended for those with two or more years of hands-on experience provisioning, operating, and managing AWS environments) – AWS Certified DevOps Engineer - Professional exam guide and sample questions 	42 minutes 1 hour 15 minutes 45 minutes 7+ hours 1 hour 3 hours 1 hour	Video Whitepaper Tutorial Tutorial Training Whitepaper Exam Exam prep
Explore additional resources	<ul style="list-style-type: none"> – Learning Library at aws.training: 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. – AWS User Group: Join and connect with AWS users all over the world to share ideas and learn. – AWS Events and Webinars: Connect with, collaborate with, and learn from AWS experts. Key events include AWS re:Invent, AWS re:Inforce, and AWS Summits. 	30 minutes 10 minutes 10 minutes	Training User Group Events / Webinars

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Phase	Recommended Learning Resource	Duration	Type
Explore additional resources continued	– AWS Podcast : Listen and learn about AWS.	10 minutes	Podcast
	– AWS Blog : Read about the latest launches from AWS Technical Evangelist Jeff Barr and others	20 minutes	Blog
	– What's New with AWS : Stay up to date on the latest announcements from AWS	10 minutes	Webpage
	– AWS Documentation : For guides, API references, tutorials, projects, SDKs, toolkits, and general resources	15 minutes	Resources
	– AWS Knowledge Center : Review frequently asked questions and requests from AWS customers.	15 minutes	Webpage
	– AWS FAQs : Find answers to product and technical questions	15 minutes	FAQs
	– Projects on AWS : Step-by-step guides to help you build and launch your AWS workload	15 minutes	Guides
	– 10-minute tutorials : Get started with a simple “Hello, World!” tutorial to get hands-on with an AWS product	15 minutes	Tutorials
	– AWS Solutions : Vetted, technical reference implementations designed to help you solve common problems and build faster	15 minutes	Webpage
	– Amazon Web Services YouTube Channel	15 minutes	Videos

For a training plan customized for your requirements, contact your AWS Account Manager or contact us at aws.amazon.com/contact-us/aws-training/.

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