

AWS Ramp-Up Guide: Startup 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 get your startup up and running on AWS. To enroll in training and certification exams, and track your progress, visit aws.training and set up a free account. If you are a startup on AWS, you may also be eligible for the AWS Activate program, providing free credits and support: <https://aws.amazon.com/activate/>.

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Phase	Recommended Learning Resource	Duration	Type
Phase 0 Learn the fundamentals of AWS Cloud	<ul style="list-style-type: none">– What is Cloud Computing?– Overview of AWS– <i>AWS Cloud Practitioner Essentials (Second Edition)</i> free digital course or classroom course– Cloud Computing with AWS– AWS Glossary with definitions of key terms and concepts	10 minutes	Webpage
		2 hours	Whitepaper
Phase 1 Learn cloud developers fundamentals	<ul style="list-style-type: none">– How AWS Pricing Works– AWS Technical Essentials classroom course– AWS Shared Responsibility Model free digital course– Tools to Build on AWS (click on your preferred programming language, then review the SDK, IDE options, and the Getting Started documentation page)	6+ hours	Training
		10 minutes	Webpage
Phase 2 Learn cloud developer concepts and best practices	<ul style="list-style-type: none">– Introduction to AWS Elastic Beanstalk free digital course– Introduction to AWS Security– Developing on AWS classroom course– Practicing Continuous Integration and Continuous Delivery on AWS– AWS Certified Cloud Practitioner certification exam (recommended for those with at least six months of hands-on experience with AWS)– AWS Developer: Building on AWS self-paced digital course on edX	30 minutes	Webpage
		3 days	Whitepaper
Phase 3 – option 1 Learn all about containers	<ul style="list-style-type: none">– Containers on AWS: An Introduction– Running Containerized Microservices on AWS– Amazon Elastic Container Service (ECS) Primer free digital course	1 hour	Whitepaper
		1.5 hours	Exam
Phase 3 – option 2 Learn all about containers	<ul style="list-style-type: none">– Containers on AWS: An Introduction– Running Containerized Microservices on AWS– Amazon Elastic Container Service (ECS) Primer free digital course	18+ hours	Training
		45 minutes	Video
Phase 3 – option 3 Learn all about containers	<ul style="list-style-type: none">– Containers on AWS: An Introduction– Running Containerized Microservices on AWS– Amazon Elastic Container Service (ECS) Primer free digital course	45 minutes	Whitepaper
		30 minutes	Training

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	<ul style="list-style-type: none"> – Deploy a Kubernetes Application – Amazon Elastic Container Service for Kubernetes (EKS) Primer free digital course 	30 minutes 1 hour	Hands-on lab Training
Phase	Recommended Learning Resource	Duration	Type
Phase 3 – option 1 continued	<ul style="list-style-type: none"> – ECS Workshop or EKS Workshop (depending on your interest) – Deep Dive on Container Security free digital course – Running Container Enabled Microservices on AWS classroom course – Introduction to Fargate – Deploy to Fargate using the CDK – Deep Dive Into Container Networking - AWS Online Tech Talks – Microservices on AWS – Deep Dive on AWS Fargate: Building Serverless Containers at Scale free digital course 	2+ hours 30 minutes 1 day 40 minutes 30 minutes 48 minutes 1 hour 40 minutes	Workshop Training Training Video Tutorial Video Whitepaper Training
Phase 3 – option 2 Learn all about serverless	<ul style="list-style-type: none"> – Introduction to Serverless Development – Run a Serverless "Hello, World!" – Getting Started with AWS Lambda and Serverless Computing – Serverless Architectural Patterns and Best Practices (from AWS re:Invent) – Serverless Architectures with AWS Lambda – Amazon DynamoDB for Serverless Architectures free digital course – AWS Lambda Foundations free digital course – Amazon API Gateway for Serverless Applications free digital course – Architecting Serverless Solutions free digital course – Build and Deploy APIs with a Serverless CI/CD free digital course – Wild Rydes Simulations: Web Application, Data Processing, DevOps, Image Processing, and Multi Region on GitHub – Host your apps with AWS Amplify Console 	25 minutes 10 minutes 46 minutes 1 hour 1 hour 2 hours 1 hour 75 minutes 4 hours 45 minutes 4 hours 45 minutes 1 hour + 1 hour	Training Hands-on lab Video Video Whitepaper Training Training Training Training Hands-on lab Training Hands-on lab Blog
Phase 4 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) – 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 	18+ hours 2+ hours 2 hours 3 days 5 minutes 10 minutes 10 minutes	Training Training Exam Training Training Training Training

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Phase 4 continued	<ul style="list-style-type: none"> – Introduction to AWS CodeBuild free digital course – Introduction to AWS CodePipeline free digital course – Introduction to AWS X-Ray free digital course – Introduction to DevOps on AWS – Blue/Green Deployments on AWS – Infrastructure as Code – CloudFormation – Infrastructure as Code – Cloud Development Kit – DevOps Engineering on AWS classroom course – Developing Machine Learning Applications free digital course 	10 minutes 10 minutes 10 minutes 30 minutes 45 minutes 1 hour 1 hour 3 days 2+ hours	Training Training Training Whitepaper Whitepaper Tutorial Tutorial Training Training
Phase 5 Prepare for and take the AWS Certified DevOps Engineer – Professional certification exam	<ul style="list-style-type: none"> – 2019 DevOps at Amazon Fireside Chat – Exam Readiness: AWS Certified DevOps Engineer - Professional free digital course or classroom course – Practicing Continuous Integration and Continuous Delivery on AWS – 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 7+ hours 1 hour 3 hours 1 hour	Video Training Whitepaper Exam Guide
Phase 6 Explore additional resources	<ul style="list-style-type: none"> – Build a modern application: Get hands on and build a modern application on AWS – 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. – AWS Blog: Read about the latest launches from AWS Technical Evangelist Jeff Barr and others – What’s New with AWS: Stay up to date on the latest announcements from AWS – AWS Startup Blog: AWS news and stories relevant to startups 	6-7 hours 30 minutes 10 minutes 10 minutes 10 minutes 20 minutes 10 minutes 20 minutes	Workshop Training User Group Events / Webinars Blog Webpage Blog

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