

This guide can help developers and DevOps engineers learn how to build and run containerized applications using AWS Container Services. You'll also learn how to orchestrate and manage container resources with a focus on scaling, security, networking, monitoring, and reliability. If you're interested specifically in digital courses and labs to help you develop these skills, explore the Containers Learning Plan at [explore.skillbuilder.aws](https://explore.skillbuilder.aws). To provide suggestions on Ramp-Up Guides, please contact [rampupguides@amazon.com](mailto:rampupguides@amazon.com).

Learn the fundamentals of AWS Cloud		
Learning Resource	Duration	Type
AWS Ramp-Up Guide: Cloud Practitioner		<a href="#">Ramp-Up Guide</a>
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	<a href="#">Whitepaper »</a>
AWS Well-Architected Framework	6 hours	<a href="#">Whitepaper »</a>
AWS Technical Essentials	1 day	<a href="#">Classroom Training &gt;&gt;</a>
Introduction to AWS Billing and Cost Management	10 minutes	<a href="#">Digital Training &gt;&gt;</a>
AWS Shared Responsibility Model	5 minutes	<a href="#">Digital Training &gt;&gt;</a>
Shared Responsibility Model	10 minutes	<a href="#">Webpage &gt;&gt;</a>
Tools to Build on AWS (click on your preferred programming language, review the SDK, IDE options, and then the Getting Started documentation page)	30 minutes	<a href="#">Webpage &gt;&gt;</a>
Step 2: Learn containers fundamentals		
Learning Resource	Duration	Type
Getting started with Docker on AWS	45 minutes	<a href="#">Video &gt;&gt;</a>
Implementing Microservices on AWS	1 hours	<a href="#">Whitepaper &gt;&gt;</a>
Introduction to Containers	15 minutes	<a href="#">Digital Training &gt;&gt;</a>
Introduction to AWS Fargate	10 minutes	<a href="#">Digital Training &gt;&gt;</a>
Introduction to Amazon Elastic Container Registry	10 minutes	<a href="#">Digital Training &gt;&gt;</a>
Introduction to Amazon Elastic Container Service	10 minutes	<a href="#">Digital Training &gt;&gt;</a>
Running Containerized Microservices on AWS	1 hour	<a href="#">Whitepaper &gt;&gt;</a>
Amazon Elastic Container Service (ECS) Primer	30 minutes	<a href="#">Digital Training &gt;&gt;</a>

Amazon Elastic Container Service for Kubernetes (EKS) Primer	1 hour	<a href="#">Digital Training &gt;&gt;</a>
Building Containerized Applications on AWS	10 hours	<a href="#">Coursera Digital Training &gt;&gt;</a>

## Step 3: Learn all about containers

Learning Resource	Duration	Type
Running Containers on Amazon Kubernetes Service (Amazon EKS)	3 days	<a href="#">Classroom Training &gt;&gt;</a>
ECS Workshop	2 hours	<a href="#">Workshop &gt;&gt;</a>
EKS Workshop	2 hours	<a href="#">Workshop &gt;&gt;</a>
Working with Amazon Elastic Container Service	55 minutes	<a href="#">Self-paced Lab &gt;&gt;</a>
Introduction to Amazon Elastic Container Service	50 minutes	<a href="#">Self-paced Lab &gt;&gt;</a>
Introduction to Amazon Elastic Container Registry	57 minutes	<a href="#">Self-paced Lab &gt;&gt;</a>
Deep Dive on Container Security	30 minutes	<a href="#">Digital Training &gt;&gt;</a>
AWS Fargate under the hood	50 minutes	<a href="#">Video &gt;&gt;</a>
Best practices for CI/CD using AWS Fargate and Amazon ECS	60 minutes	<a href="#">Video &gt;&gt;</a>
CI/CD with AWS Fargate	60 minutes	<a href="#">Workshop &gt;&gt;</a>
Docker on Amazon ECS Fargate Using CloudFormation	36 minutes	<a href="#">Video &gt;&gt;</a>
Deep Dive Into Container Networking - AWS Online Tech Talks	48 minutes	<a href="#">Video &gt;&gt;</a>
Building CI/CD Pipelines with Jenkins on Amazon ECS	60 minutes	<a href="#">Workshop &gt;&gt;</a>
AWS Developer: Deploying on AWS	18 hours	<a href="#">edX Digital Training &gt;&gt;</a>
Blue/green and Canary deployments for Amazon EKS and Amazon ECS	90 minutes	<a href="#">Workshop &gt;&gt;</a>
AWS App2Container – A New Containerizing Tool for Java and .NET Applications	30 minutes	<a href="#">Blog</a>
De-mystifying cluster networking for Amazon EKS Worker nodes	30 minutes	<a href="#">Blog</a>

Explore additional resources

Learning Resource	Description	Type
Architecture Best Practices for Containers	Learn how to manage your containers and their deployments on AWS.	<a href="#">Explore »</a>
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.	<a href="#">Explore »</a>
AWS Whitepapers & Guides	Authored by AWS and the AWS community, explore technical whitepapers, technical guides, reference material, and reference architecture diagrams.	<a href="#">Explore »</a>
AWS User Group	Join and connect with AWS users all over the world to share ideas and learn.	<a href="#">Explore »</a>
AWS Events and Webinars	Connect with, collaborate with, and learn from AWS experts. Key events include AWS.	<a href="#">Explore »</a>
AWS Podcast	Listen and learn about AWS.	<a href="#">Explore »</a>
AWS Blog	Read about the latest launches from AWS Technical Evangelist Jeff Barr and others.	<a href="#">Explore »</a>
AWS Documentation	Search for AWS service guides, API references, tutorials, projects, SDKs, and toolkits.	<a href="#">Explore »</a>
AWS Knowledge Center	Review AWS Support’s responses to AWS customers’ most frequently asked questions.	<a href="#">Explore »</a>
AWS FAQs	Find answers to common Product and Technical frequently asked questions.	<a href="#">Explore »</a>
AWS Hands-On Tutorials	Get started with 10-minute, step-by-step tutorials to launch your first application.	<a href="#">Explore »</a>
AWS Solutions Library	Use vetted, technical reference implementations designed to help you solve common problems and build faster.	<a href="#">Explore »</a>
AWS YouTube Channel	Explore a wide variety of AWS topics by watching videos created by AWS experts across the world.	<a href="#">Explore »</a>

**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](#)

**For those learners who have existing Qwiklabs credits or those that want to use Qwiklabs instead of a subscription, you can search for the AWS labs in the Ramp Up Guide [here](#) and access from Qwiklabs.**