

# AWS Ramp-Up Guide: Internet of Things

For Solutions Architects, IoT Security Specialists, and the Maker Community

AWS Training and Certification has created this and other **AWS Ramp-Up Guides** to help build your knowledge of the AWS Cloud. The AWS IoT Ramp-Up Guide features free digital training, videos, whitepapers, and other information you're looking for. To enroll in training, and track your progress, visit [aws.training](https://aws.training) and set up a free account.

## Learn the fundamentals of the AWS Cloud

LEARNING RESOURCE	DURATION	TYPE
What is Cloud Computing?	10 minutes	<a href="#">Webpage »</a>
Overview of AWS	2+ hours	<a href="#">Whitepaper »</a>
<i>AWS Cloud Practitioner Essentials</i>	6 hours	<a href="#">Digital Training »</a> <a href="#">Classroom Training »</a>
Cloud Computing with AWS	20 minutes	<a href="#">Webpage »</a>
AWS Glossary	30 minutes	<a href="#">Whitepaper »</a>
<i>Job Roles in the Cloud</i>	30 minutes	<a href="#">Digital Training »</a>
AWS Pricing	15 minutes	<a href="#">Webpage »</a>
How AWS Pricing Works	45 minutes	<a href="#">Whitepaper »</a>
Compare AWS Support Plans	5 minutes	<a href="#">Webpage »</a>
AWS Cloud Security	10 minutes	<a href="#">Webpage »</a>
<i>AWS Shared Responsibility Model</i>	10 minutes	<a href="#">Digital Training »</a>
Shared Responsibility Model	5 minutes	<a href="#">Webpage »</a>

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## Step 1: Learn AWS Internet of Things (IoT) fundamentals

LEARNING RESOURCE	DURATION	TYPE
AWS IoT	15 minutes	<a href="#">Webpage »</a>
AWS IoT Core Frequently Asked Questions	10 minutes	<a href="#">Webpage »</a>
<i>Introduction to AWS IoT</i>	10 minutes	<a href="#">Digital Training »</a>
Introduction to AWS Internet of Things (IoT)	90 minutes	<a href="#">Hands-On Lab »</a>
Deploy an End-to-End IoT Application	80 minutes	<a href="#">Hands-On Lab »</a>
AWS IoT Lens: Well Architected Framework	1.5 hours	<a href="#">Whitepaper »</a>
<i>IoT Foundation: Telemetry</i>	2.5 hours	<a href="#">Digital Training »</a>
<i>IoT Foundation: Command and Control</i>	2 hours	<a href="#">Digital Training »</a>
IoT Command and Control	90 minutes	<a href="#">Hands-On Lab »</a>
<i>Introduction to AWS IoT Analytics</i>	30 minutes	<a href="#">Digital Training »</a>
Ten security golden rules for IoT solutions	1 hour	<a href="#">Blog Post »</a>
<i>Introduction to AWS IoT Device Defender</i>	20 minutes	<a href="#">Digital Training »</a>
<i>Solution Details: Internet of Tracking</i>	10 minutes	<a href="#">Digital Training »</a>

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## Step 2: Dive deep into AWS Internet of Things (IoT)

LEARNING RESOURCE	DURATION	TYPE
<i>AWS IoT: Developing and Deploying an Internet of Things</i>	4 weeks	<a href="#">edX Digital Training »</a>
AWS IoT Core Documentation	5 days	<a href="#">Webpage »</a>
Designing MQTT Topics for AWS IoT Core	45 minutes	<a href="#">Whitepaper »</a>
<i>IoT Foundation: Predictive Maintenance</i>	2 hours	<a href="#">Digital Training »</a>
<i>IoT Foundation: Introduction to Fleet Management</i>	3 hours	<a href="#">Digital Training »</a>
How to automate onboarding of IoT devices to AWS IoT Core at scale with Fleet Provisioning	30 minutes	<a href="#">Blog Post »</a>
<i>AWS IoT Device Defender Primer</i>	3 hours	<a href="#">Digital Training »</a>
<i>IoT Edge Computing: Amazon FreeRTOS Primer</i>	3 hours	<a href="#">Digital Training »</a>
<i>IoT Edge Computing: AWS IoT Greengrass Primer</i>	3 hours	<a href="#">Digital Training »</a>
IoT Edge Computing: AWS IoT Greengrass	90 minutes	<a href="#">Hands-On Lab »</a>
<i>Mobile Development in IoT</i>	2 hours	<a href="#">Digital Training »</a>
Managing IoT Sensor Data with Amazon ElastiCache for Redis	90 minutes	<a href="#">Hands-On Lab »</a>
<i>Deep Dive into AWS IoT Rules Engine</i>	5 hours	<a href="#">Digital Training »</a>
<i>Deep Dive into AWS IoT Authentication and Authorization</i>	4 hours	<a href="#">Digital Training »</a>

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Explore additional resources		
LEARNING RESOURCE	DESCRIPTION	
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	Explore technical whitepapers, technical guides, reference material, and reference architecture diagrams, all authored by AWS and the AWS community.	<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 & Webinars	Connect with, collaborate with, and learn from AWS experts.	<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 product- and technical-related 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](#)

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