

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. Each expertly curated guide features free digital training, classroom courses, videos, whitepapers, certifications, and other information you're looking for. To enroll in training and certification exams, and track your progress, visit aws.training and set up a free account.

Learn the fundamentals of AWS Cloud		
LEARNING RESOURCE	DURATION	TYPE
What is Cloud Computing?	10 minutes	Webpage »
Overview of AWS	2+ hours	Whitepaper »
<i>AWS Cloud Practitioner Essentials</i>	8 hours 6 hours	Classroom Training » Digital training »
Cloud Computing with AWS	20 minutes	Webpage »
AWS Glossary	30 minutes	Whitepaper »
<i>Job Roles in the Cloud</i>	30 minutes	Digital Training »
AWS Pricing	15 minutes	Webpage »
How AWS Pricing Works	45 minutes	Whitepaper »
Compare AWS Support Plans	5 minutes	Webpage »
AWS Cloud Security	10 minutes	Webpage »
<i>AWS Shared Responsibility Model</i>	10 minutes	Digital Training »
Shared Responsibility Model	5 minutes	Webpage »

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

LEARNING RESOURCE	DURATION	TYPE
AWS IoT	15 minutes	Webpage »
AWS IoT Core Frequently Asked Questions	10 minutes	Webpage »
<i>Introduction to AWS IoT</i>	10 minutes	Digital Training »
Introduction to AWS Internet of Things (IoT)	90 minutes	Hands-on Lab »
Deploy and End to End IoT Application	80 minutes	Hands-on Lab »
AWS IoT Lens: Well Architected Framework	1.5 hours	Whitepaper »
<i>IoT Foundation: Telemetry</i>	2.5 hours	Digital Training »
<i>IoT Foundation: Command and Control</i>	2 hours	Digital Training »
IoT Command and Control	90 minutes	Hands-on Lab »
<i>Introduction to AWS IoT Analytics</i>	30 minutes	Digital Training »
Ten security golden rules for IoT solutions	1 hour	Blog Post »
<i>AWS IoT Security Primer</i>	3 hours	Digital Training »
<i>Introduction to AWS IoT Device Defender</i>	20 minutes	Digital Training »
<i>Solution Details: Internet of Tracking</i>	10 minutes	Digital Training »

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

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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.	Explore »
AWS Whitepapers & Guides	Explore technical whitepapers, technical guides, reference material, and reference architecture diagrams, all authored by AWS and the AWS community.	Explore »
AWS User Group	Join and connect with AWS users all over the world to share ideas and learn.	Explore »
AWS Events & 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 product- and technical-related 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 »

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