

AWS Ramp-Up Guide: Internet of Things

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

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 of Internet of Things. 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	Whitepaper
	– Job Roles in the Cloud free digital course	30 minutes	Training
	– AWS Pricing	15 minutes	Webpage
	– How AWS Pricing Works	45 minutes	Whitepaper
	– Compare AWS Support Plans	5 minutes	Whitepaper
	– AWS Cloud Security	10 minutes	Webpage
	– AWS Shared Responsibility Model free digital course	10 minutes	Training
	– Shared Responsibility Model	5 minutes	Webpage
	Phase 1 Learn AWS Internet of Things (IoT) fundamentals	– AWS IoT Overview	5 minutes
– AWS IoT Core Frequently Asked Questions		10 minutes	Webpage
– Introduction to AWS IoT free digital course		10 minutes	Training
– Introduction to AWS Internet of Things (IoT)		90 minutes	Self-Paced Lab
– Deploy an End-to-End IoT Application		80 minutes	Self-Paced Lab
– AWS IoT Lens: AWS Well-Architected Framework		1.5 hours	Whitepaper
– IoT Foundation Telemetry free digital course		2.5 hours	Training
– IoT Foundation: Command and Control free digital course		2 hours	Training
– IoT Command and Control		90 minutes	Self-Paced Lab
– Introduction to AWS IoT Analytics free digital course		15 minutes	Training
– Ten security golden rules for IoT solutions		3 hours	Blog
– AWS IoT Security Primer free digital course		10 minutes	Training
– Introduction to AWS IoT Device Defender free digital course		10 minutes	Training
– Solution Detail: Internet of Tracking free digital course	10 minutes	Training	
Phase 2 Dive Deep into AWS Internet of Things (IoT) - Intermediate and Advanced topics	– AWS IoT: Developing and Deploying an Internet of Things free digital course on edX	4 weeks	Training
	– AWS IoT Core Documentation	5 days	Webpage
	– Designing MQTT Topics for AWS IoT Core	45 minutes	Whitepaper
	– IoT Foundation: Predictive Maintenance free digital course	2 hours	Training
	– IoT Foundation: Introduction to Fleet Management free digital course	3 hours	Training

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Phase 2 continued	– IoT Fleet Management	2 hours	Self-Paced Lab
	– AWS IoT Device Defender Primer free digital course	3 hours	Training
	– IoT Edge Computing: Amazon FreeRTOS Primer free digital course	2 hours	Training
	– IoT Edge Computing: AWS IoT Greengrass Primer free digital course	3 hours	Training
	– IoT Edge Computing: AWS IoT Greengrass	90 minutes	Self-Paced Lab
	– Mobile Development in IoT free digital course	3 hours	Training
	– Managing IoT Sensor Data with Amazon ElastiCache for Redis	90 minutes	Self-Paced Lab
	– Deep Dive into AWS IoT Rules Engine free digital course	4 hours	Training
	– Deep Dive into AWS IoT Authentication and Authorization free online course	4 hours	Training
Phase 3 Explore additional resources	– 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.	30 minutes	Training
	– AWS User Group : Join and connect with AWS users all over the world to share ideas and learn.	10 minutes	User Group
	– 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.	10 minutes	Events / Webinars
	– 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
		20 minutes	Blog
	– What’s New with AWS : Stay up to date on the latest announcements from AWS	10 minutes	Webpage

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](#).