AWS Ramp-Up Guide: Telecommunications

For business leaders, technical leaders, and operations engineers

aws training and certification

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. To provide suggestions on Ramp-Up Guides, please contact **rampupguides@amazon.com**.

Learn the fundamentals of AWS Cloud

LEARNING RESOURCE	DURATION	TYPE
AWS Ramp-Up Guide: Cloud Practitioner	10 minutes	Ramp-up Guide »
Deutsche Telekom IT GmbH Uses AWS Training and Certification to Modernize in the Cloud	10 minutes	Webpage »

Step 1: Learn the fundamentals of AWS Mobile Development

LEARNING RESOURCE	DURATION	TYPE
AWS on Air 2020: Voice of the Customer – T-Mobile	22 minutes	Video »
Verizon Accelerates 5G Network Capability Launch Using AWS	5 minutes	Webpage »
Telecommunications on AWS	10 minutes	Webpage »
Introduction to AWS Mobile Hub	10 minutes	Digital Training »
AWS Mobile Service Overview	5 minutes	Digital Training »
Introduction to AWS Device Farm	10 minutes	Digital Training »
Dish and AWS to reinvent 5G connectivity and innovation	10 minutes	Webpage »

Step 2: Data lakes and AI/ML for telecommunications

LEARNING RESOURCE	DURATION	TYPE
Data Analytics Fundamentals	3.5 hours	Digital Training »
Introduction to Amazon SageMaker	10 minutes	Digital Training »

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Step 2 continued: Data lakes, artificial intelligence, and machine learning for telecommunications

LEARNING RESOURCE	DURATION	TYPE
AWS Foundations: How Amazon SageMaker Can Help	30 minutes	Digital Training »
Introduction to AWS CloudFormation	10 minutes	Digital Training »
Introduction to Amazon Kinesis Firehose	10 minutes	Digital Training »
Introduction to Amazon Kinesis Analytics	10 minutes	Digital Training »
Introduction to Amazon Kinesis Streams	15 minutes	Digital Training »
Simple Storage Service - Basics	10 minutes	Digital Training »
Amazon Simple Storage Service - Closer look - Part 1	20 minutes	Digital Training »
Amazon Simple Storage Service - Closer look - Part 2	20 minutes	Digital Training »
Introduction to Amazon Elastic MapReduce (EMR)	15 minutes	Digital Training »
AWS Lambda Foundations	1 hour	Digital Training »
Introduction to Amazon Athena	10 minutes	Digital Training »
Introduction to Amazon API Gateway	10 minutes	Digital Training »
Amazon API Gateway for Serverless Applications	75 minutes	Digital Training »

Step 3: Extend the cloud to the edge – AWS 5G Edge

LEARNING RESOURCE	DURATION	TYPE
Ericsson Delivers Low-Latency Communication with 5G at the Edge Using AWS Outposts	5 minutes	Webpage »
IoT Edge Computing: Introduction to Amazon FreeRTOS	10 minutes	Digital Training »
Introduction to AWS IoT Device Management	10 minutes	Digital Training »
IoT Edge Computing: Introduction to AWS Greengrass	10 minutes	Digital Training »

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Step 3 continued: Extend the cloud to the edge – AWS 5G Edge

LEARNING RESOURCE	DURATION	TYPE
IoT Edge Computing: AWS IoT Greengrass Primer	3 hours	Digital Training »
AWS Wavelength	10 minutes	Webpage »
AWS on Air 2020: Industry Live Telecommunications	30 minutes	Video »
Connecting the World of Tomorrow, Today, with 5G Edge Cloud: Verizon and AWS	25 minutes	Video »
Cloud enables telco transformation via new technologies	10 minutes	Whitepaper »

Step 4: Dive deeper with case studies and articles pertaining to telecommunications

LEARNING RESOURCE	DURATION	TYPE
BNET Uses AWS to Launch Broadband Network, Cut Costs, and Gain Network Insights	10 minutes	Webpage »
A Modern and Simple Approach to Address CSP's Network Performance Analytics Challenges Using AWS	10 minutes	AWS Blogpost »
Data monetization and customer experience optimization using telco data assets: Part 1	15 minutes	AWS Blogpost »
Data monetization and customer experience optimization using telco data assets: Part 2	15 minutes	AWS Blogpost »
AWS Wavelength - Edge Computing for 5G Networks	5 minutes	Webpage »
TCS, Verizon & AWS - 5G and MEC use case	5 minutes	Webpage »
A game changer for live broadcast - Verizon 5G Edge and AWS Wavelength	5 minutes	Webpage »
Telecom solutions in AWS Marketplace	5 minutes	Webpage »
Implementing 5G Network Slicing with Cloudify on AWS	10 minutes	Webpage »
Mapping AWS Services to the NFV Framework	5 minutes	Whitepapers »

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Reinventing communications, together.			
PILLAR	**LEARNING RESOURCE**	**DESCRIPTION**	
Networks, cloudified	Solutions Brief	Private Mobile Edge Computing	Explore »
	Whitepaper	Cloud Automation for 5G Network	Explore »
	Whitepaper	Amazon EC2 Networking for Telecom	Explore »
	Whitepaper	Carrier Grade Mobile Packet Core	Explore »
	Whitepaper	5G Network Evolution with AWS	Explore »
Operations, simplified	Whitepaper	Overview of AWS Services	Explore »
	Whitepaper	AWS Migration for Telecom	Explore »
	Whitepaper	Deployment options on AWS	Explore »
	Whitepaper	Real-Time Communication on AWS	Explore »
	Whitepaper	Leveraging Chime Voice Connector for SIP Trunking	Explore »
Customer experience, reimagined	Whitepaper	Global Data AI and Big Data Analytics in Telecoms	Explore »
	Whitepaper	Machine Learning for Telecommunication	Explore »
	Whitepaper	Well Architected Machine Learning Lens	Explore »
Growth, unlocked	Whitepaper	Edge Computing for 5G Networks with AWS Wavelength	Explore »
	Whitepaper	AWS Private Mobile Edge Computing and 5G	Explore »
	Analyst Report	AWS and Telcos Extend Cloud Services to the Edge	Explore »
	Analyst Report	5G on AWS	Explore »

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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.	Explore »
AWS Whitepapers & Guides	Explore technical whitepapers, guides, reference material, and architecture diagrams 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 and Webinars	Connect, collaborate, and learn from AWS experts.	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 common Product and Technical 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	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 »

For a training plan customized for your requirements, contact your AWS Account Manager or contact us.

Contact us

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