

# AWS Ramp-Up Guide: Healthcare & Life Sciences (HCLS)

For business decision makers, developers, and data scientists



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](https://aws.training) and set up a free account. 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	10 minutes	<a href="#">Ramp-up Guide »</a>
Amazon HealthLake	10 minutes	<a href="#">Webpage »</a>

## Step 1: Learn the fundamentals of security, compliance, and data privacy for HCLS on AWS

LEARNING RESOURCE	DURATION	TYPE
Architecting for HIPAA Security and Compliance on Amazon Web Services	20 minutes	<a href="#">Whitepaper »</a>
<i>Incorporating AWS into Healthcare and Life Sciences Compliance Programs</i>	20 minutes	<a href="#">Digital Training »</a>
<i>HIPAA &amp; HITRUST</i>	20 minutes	<a href="#">Digital Training »</a>
<i>GxP Worldwide</i>	20 minutes	<a href="#">Digital Training »</a>
<i>International Data Privacy and Data Provenance</i>	20 minutes	<a href="#">Digital Training »</a>

## Step 2: Artificial intelligence & machine learning (AI/ML) in healthcare

LEARNING RESOURCE	DURATION	TYPE
<i>AWS Foundations: How Amazon SageMaker Can Help</i>	30 minutes	<a href="#">Digital Training »</a>
<i>Practical Data Science with Amazon SageMaker</i>	1 day	<a href="#">Classroom Training »</a>
<i>Introduction to Amazon Transcribe</i>	10 minutes	<a href="#">Digital Training »</a>
<i>Introduction to Amazon Comprehend Medical</i>	10 minutes	<a href="#">Digital Training »</a>

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## Step 2: Artificial intelligence & machine learning (AI/ML) in healthcare

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<i>Introduction to Amazon Comprehend</i>	10 minutes	<a href="#">Digital Training »</a>
High Performance Computing for Healthcare & Life Sciences	10 minutes	<a href="#">Webpage »</a>
Amazon Comprehend Medical	10 minutes	<a href="#">Webpage »</a>
Amazon Transcribe Medical	10 minutes	<a href="#">Webpage »</a>

## Step 3: Personalized healthcare with AWS

LEARNING RESOURCE	DURATION	TYPE
Enabling efficient patient care using Amazon AI services	20 minutes	<a href="#">Blog Post »</a>
<i>Introduction to Amazon Personalize</i>	10 minutes	<a href="#">Digital Training »</a>
<i>Introduction to Amazon Pinpoint</i>	10 minutes	<a href="#">Digital Training »</a>
<i>Amazon Connect: Build a Custom Call Control Panel</i>	60 minutes	<a href="#">Digital Training »</a>
<i>Amazon Connect Best Practices</i>	45 minutes	<a href="#">Digital Training »</a>
<i>Chime User Best Practices</i>	60 minutes	<a href="#">Digital Training »</a>
<i>Introduction to Amazon Polly</i>	10 minutes	<a href="#">Digital Training »</a>
<i>Introduction to Amazon Lex</i>	10 minutes	<a href="#">Digital Training »</a>
<i>Amazon Connect: Emergency and Holiday Routing with Dynamic Messaging</i>	45 minutes	<a href="#">Digital Training »</a>
<i>AWS Lambda Foundations</i>	60 minutes	<a href="#">Digital Training »</a>
<i>Amazon Simple Storage Service - Closer look - Part 1</i>	20 minutes	<a href="#">Digital Training »</a>
<i>Amazon Simple Storage Service - Closer look - Part 2</i>	20 minutes	<a href="#">Digital Training »</a>
<i>Introduction to Amazon Simple Queue Service (SQS)</i>	10 minutes	<a href="#">Digital Training »</a>

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Dive deeper into HCLS by exploring these videos, blog posts, and whitepapers

LEARNING RESOURCE	DURATION	TYPE
A generalized approach to benchmarking genomics workloads in the cloud: Running the BWA read aligner on Graviton2	20 minutes	<a href="#">Blog post »</a>
Using Amazon FSx for Lustre for Genomics Workflows on AWS	20 minutes	<a href="#">Blog post »</a>
GROMACS price-performance optimizations on AWS	20 minutes	<a href="#">Blog post »</a>
Twitch Series: AWS Power Hour Amazon Comprehend	65 minutes	<a href="#">Video »</a>
Twitch Series: AWS Power Hour Amazon Personalize	70 minutes	<a href="#">Video »</a>
Twitch Series: AWS Power Hour Amazon Connect & Amazon Lex	65 minutes	<a href="#">Video »</a>
Telehealth Meets Cloud	30 minutes	<a href="#">Whitepaper »</a>
Accelerating Innovation in Healthcare	30 minutes	<a href="#">Whitepaper »</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.	<a href="#">Explore »</a>
AWS Whitepapers & Guides	Explore technical whitepapers, guides, reference material, and architecture diagrams 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 and Webinars	Connect, collaborate, 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 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	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>

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