

# AWS Ramp-Up Guide: Architect

For AWS Cloud architects, solutions architects, and engineers

Solve your business challenges by designing and optimizing cloud solutions using AWS services, best practices, and the AWS Well-Architected Framework. This guide can also help you prepare for the AWS Certified Solutions Architect — Associate and AWS Certified Solutions Architect — Professional certification exams. If you're interested specifically in digital courses and labs to help you develop these skills, explore the Architect Learning Plan at [explore.skillbuilder.aws](https://explore.skillbuilder.aws). 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		<a href="#">Ramp-Up Guide</a>

## Step 1: Learn cloud architect fundamentals

Learning Resource	Duration	Type
AWS Pricing	15 minutes	<a href="#">Webpage</a>
How AWS Pricing Works	3.5 hours	<a href="#">Whitepaper »</a>
AWS Well-Architected	15 minutes	<a href="#">Webpage</a>
AWS Well-Architected Framework	2 hours	<a href="#">Whitepaper »</a>
Introduction to AWS Billing and Cost Management	5 minutes	<a href="#">Digital Training »</a>
AWS Shared Responsibility Model	5 minutes	<a href="#">Digital Training »</a>
Shared Responsibility Model	10 minutes	<a href="#">Webpage »</a>
Best Practices for Security, Identity, & Compliance	2 hours	<a href="#">Webpage</a>
AWS Security Best Practices	30 minutes	<a href="#">Blogs</a>
AWS Technical Essentials	1 day	<a href="#">Classroom Training »</a>

## Step 2: Learn AWS Cloud Architecting concepts and best practices

Learning Resource	Duration	Type
AWS Well Architected	1.5 hours	<a href="#">Digital Training »</a>
Architecting on AWS	3 days	<a href="#">Classroom Training »</a>
OPTIONAL <i>Architecting on AWS - Accelerator</i>	5 days	<a href="#">Classroom Training »</a>

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OPTIONAL <i>Exam Readiness Intensive Workshop: AWS Certified Solutions Architect - Associate</i>	5 days	<a href="#">Classroom Training »</a>
AWS Architecture Center	15 minutes	<a href="#">Webpage »</a>
AWS CLI Introduction	48 minutes	<a href="#">Video »</a>
Well-Architected Labs	60 hours	<a href="#">Lab »</a>
Introduction to AWS Security by Design	30 minutes	<a href="#">Whitepaper »</a>
Right Sizing: Provisioning Instances to Match Workloads	1 hour	<a href="#">Whitepaper »</a>
Architecting Serverless Solutions	3 hours	<a href="#">Digital Training »</a>
Serverless Application Lens	2.5 hours	<a href="#">Whitepaper »</a>
Building a Scalable and Secure Multi-VPC AWS Network	2 hours	<a href="#">Whitepaper »</a>
Backup and Recovery Approaches Using AWS	30 minutes	<a href="#">Whitepaper »</a>
Amazon Virtual Private Cloud Connectivity Options	45 minutes	<a href="#">Whitepaper »</a>
Modern Application Development on AWS	1 hour	<a href="#">Whitepaper »</a>
Web Application Hosting in the AWS Cloud	30 minutes	<a href="#">Whitepaper »</a>
Overview of Deployment Options on AWS	2 hours	<a href="#">Whitepaper »</a>
Guidelines for Implementing AWS Well-Architected Framework *	2 hours	<a href="#">Whitepaper »</a>
AWS Certified Solutions Architect - Associate	15 minutes	<a href="#">Webpage &gt;&gt;</a>

## Step 3: Build Knowledge with Hands on Labs

Learning Resource	Duration	Type
Building Your First Amazon Virtual Private Cloud (VPC)	85 minutes	<a href="#">Self-paced Lab</a>
Introduction to Amazon Simple Storage Service (S3)	60 minutes	<a href="#">Self-paced Lab</a>
Introduction to Elastic Load Balancing	50 minutes	<a href="#">Self-paced Lab</a>
Introduction to AWS Key Management Service	50 minutes	<a href="#">Self-paced Lab</a>
Implementing Multi-Region Backup with Amazon S3 Cross-Region Replication	1 hour 30 minutes	<a href="#">Self-paced Lab</a>
Working with Amazon CloudFront for Dynamic Content Acceleration	1 hour, 20 minutes	<a href="#">Self-paced Lab</a>
Auditing Your Security with AWS Trusted Advisor	1 hour, 25 minutes	<a href="#">Self-paced Lab</a>
Monitoring Security Groups with AWS Config	60 minutes	<a href="#">Self-paced Lab</a>
Monitoring Security Groups with Amazon CloudWatch Events	57 minutes	<a href="#">Self-paced Lab</a>
Update Security Groups Automatically Using AWS Lambda	60 minutes	<a href="#">Self-paced Lab</a>

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Launching and Managing a Web Application with AWS CloudFormation	1 hour, 40 minutes	<a href="#">Self-paced Lab</a>
AWS Federated Authentication with AD FS	2 hours	<a href="#">Self-paced Lab</a>
Policy Creation Challenge	2 hours	<a href="#">Self-paced Lab</a>
Step 4: Take the AWS Certified Solutions Architect - Associate exam		
Learning Resource	Duration	Type
Exam Readiness: AWS Certified Solutions Architect – Associate	2 hours	<a href="#">Digital Training »</a>
AWS Certified Solutions Architect - Associate exam guide	10 minutes	<a href="#">Exam Guide »</a>
AWS Certified Solutions Architect - Associate sample questions	30 minutes	<a href="#">Sample Questions »</a>
AWS Certified Solutions Architect - Associate exam	130 minutes	<a href="#">Exam »</a>
Step 5: Learn advanced AWS Cloud Architecting concepts and best practices		
Learning Resource	Duration	Type
Advanced Architecting on AWS	3 days	<a href="#">Classroom Training »</a>
Sample CloudFormation Templates	10 minutes	<a href="#">Webpage »</a>
Best Practices for Building Amazon Machine Images (AMIs)	10 minutes	<a href="#">Webpage »</a>
CloudEndure Disaster Recovery	5 minutes	<a href="#">Webpage »</a>
Serverless Architectural Patterns and Best Practices (from AWS re:Invent)	1 hour	<a href="#">Video »</a>
Migrating AWS Resources to a New Region	1 hour	<a href="#">Whitepaper »</a>
Step 6: Take the AWS Certified Solutions Architect - Professional exam		
Learning Resource	Duration	
Exam Readiness: AWS Certified Solutions Architect – Professional	4 hours	<a href="#">Digital Training »</a>
AWS Certified Solutions Architect - Professional exam guide	10 minutes	<a href="#">Exam Guide »</a>
AWS Certified Solutions Architect - Professional sample questions	30 minutes	<a href="#">Sample Questions »</a>
AWS Certified Solutions Architect - Professional exam	3 hours	<a href="#">Exam »</a>

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Explore Additional Resources		
Learning Resource	Description	Type
AWS Architecture Center	The AWS Architecture Center provides reference architecture diagrams, vetted architecture solutions, Well-Architected best practices, patterns, icons, and more	<a href="#">Explore</a>
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 and Webinars	Connect with, collaborate with, and learn from AWS experts. Key events include AWS.	<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>
The Amazon Builders' Library	Learn how Amazon builds and operates software	<a href="#">Webpage »</a>
AWS Twitch Channel	Learn how millions of customers are currently leveraging AWS cloud products and solutions to build sophisticated applications with increased flexibility, scalability and reliability.	<a href="#">Explore</a>
AWS Live Video	Join the developer education and community with AWS Live Video	<a href="#">Explore</a>
AWS Security Documentation	Configure AWS services to meet your security and compliance objectives	<a href="#">Explore</a>

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**For a training plan customized for your requirements,**  
contact your AWS Account Manager or contact us [here](#)

**We would love to hear from you.**  
Provide your feedback on this AWS Ramp-Up Guide [here](#)

**For those learners who have existing Qwiklabs credits** or those that want to use Qwiklabs instead of a subscription, you can search for the AWS labs in the Ramp Up Guide [here](#) and access from Qwiklabs.