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**. 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		Ramp-Up Guide

Step 1: Learn cloud architect fundamentals		
Learning Resource	**Duration**	**Type**
AWS Pricing	15 minutes	Webpage
How AWS Pricing Works	3.5 hours	Whitepaper »
AWS Well-Architected	15 minutes	Webpage
AWS Well-Architected Framework	2 hours	Whitepaper »
Introduction to AWS Billing and Cost Management	5 minutes	Digital Training »
AWS Shared Responsibility Model	5 minutes	Digital Training »
Shared Responsibility Model	10 minutes	Webpage »
Best Practices for Security, Identity, & Compliance	2 hours	Webpage
AWS Security Best Practices	30 minutes	Blogs
AWS Technical Essentials	1 day	Classroom Training »

Step 2: Learn AWS Cloud Architecting concepts and best practices		
Learning Resource	**Duration**	**Type**
AWS Well Architected	1.5 hours	Digital Training »
Architecting on AWS	3 days	Classroom Training »
AWS Well Architected Best Practices	1 day	Classroom Training »
Advanced AWS Well-Architected Best Practice	1 day	Classroom Training »
OPTIONAL *Architecting on AWS - Accelerator*	5 days	Classroom Training »

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

Step 3: Build Knowledge with Hands on Labs		
Learning Resource	**Duration**	**Type**
Building Your First Amazon Virtual Private Cloud (VPC)	85 minutes	Self-paced Lab
Introduction to Amazon Simple Storage Service (S3)	60 minutes	Self-paced Lab
Introduction to Elastic Load Balancing	50 minutes	Self-paced Lab
Introduction to AWS Key Management Service	50 minutes	Self-paced Lab
Implementing Multi-Region Backup with Amazon S3 Cross-Region Replication	1 hour 30 minutes	Self-paced Lab
Working with Amazon CloudFront for Dynamic Content Acceleration	1 hour, 20 minutes	Self-paced Lab
Auditing Your Security with AWS Trusted Advisor	1 hour, 25 minutes	Self-paced Lab
Monitoring Security Groups with AWS Config	60 minutes	Self-paced Lab
Monitoring Security Groups with Amazon CloudWatch Events	57 minutes	Self-paced Lab
Update Security Groups Automatically Using AWS Lambda	60 minutes	Self-paced Lab

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Launching and Managing a Web Application with AWS CloudFormation	1 hour, 40 minutes	Self-paced Lab
AWS Federated Authentication with AD FS	2 hours	Self-paced Lab
Policy Creation Challenge	2 hours	Self-paced Lab

Step 4: Take the AWS Certified Solutions Architect - Associate exam		
Learning Resource	**Duration**	**Type**
Exam Readiness: AWS Certified Solutions Architect – Associate	2 hours	Digital Training »
AWS Certified Solutions Architect - Associate exam guide	10 minutes	Exam Guide »
AWS Certified Solutions Architect - Associate sample questions	30 minutes	Sample Questions »
AWS Certified Solutions Architect - Associate exam	130 minutes	Exam »

Step 5: Learn advanced AWS Cloud Architecting concepts and best practices		
Learning Resource	**Duration**	**Type**
Advanced Architecting on AWS	3 days	Classroom Training »
Sample CloudFormation Templates	10 minutes	Webpage »
Best Practices for Building Amazon Machine Images (AMIs)	10 minutes	Webpage »
CloudEndure Disaster Recovery	5 minutes	Webpage »
Serverless Architectural Patterns and Best Practices (from AWS re:Invent)	1 hour	Video »
Migrating AWS Resources to a New Region	1 hour	Whitepaper »

Step 6: Take the AWS Certified Solutions Architect - Professional exam		
Learning Resource	**Duration**	
Exam Readiness: AWS Certified Solutions Architect – Professional	4 hours	Digital Training »
AWS Certified Solutions Architect - Professional exam guide	10 minutes	Exam Guide »

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	Explore
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 and 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 »
The Amazon Builders' Library	Learn how Amazon builds and operates software	Webpage »
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.	Explore
AWS Live Video	Join the developer education and community with AWS Live Video	Explore
AWS Security Documentation	Configure AWS services to meet your security and compliance objectives	Explore

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.

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