AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers

aws training and certification

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 Solutions Architect Learning Plan at **explore.skillbuilder.aws**. To provide suggestions on Ramp-Up Guides, please contact **rampupguides@amazon.com.**

Fundamentals		
Learning Resource	**Duration**	**Type**
AWS Technical Essentials	4 hour 30 minutes	Digital Training

Identity and Security		
Learning Resource	**Duration**	**Type**
Introduction to AWS Identity and Access Management (IAM)	7 minutes	Digital Training
Introduction to AWS Identity and Access Management (IAM)	45 minutes	Self-Paced Lab
Getting Started with AWS Security, Identity, and Compliance	3 hours	Digital Training
Performing a Basic Audit of your AWS Environment	1 hour	Self-Paced Lab
Introduction to AWS Key Management Service	1 hour	Self-Paced Lab

Compute and Storage		
Learning Resource	**Duration**	**Type**
AWS Compute Services Overview	40 minutes	Digital Training
Getting Started with AWS Storage	3 hours 15 minuts	Digital Training
Getting Started with Amazon Simple Storage Service (Amazon S3)	1 hour	Digital Training
Introduction to Amazon Simple Storage Service (S3)	1 hour	Self-Paced Lab
Amazon Elastic Block Store (Amazon EBS) Primer	1 hour 30 min	Digital Training
AWS Database Offerings	4 hours	Digital Training
Troubleshooting: Amazon DynamoDB	45 minutes	Digital Training
Amazon RDS Service Primer	20 minutes	Digital Training

Networking

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Learning Resource	Duration	Type
AWS Networking Basics	2 hours	Digital Training
Subnets, Gateways, and Route Tables Explained	20 minutes	Digital Training
Building Your First Amazon Virtual Private Cloud (VPC)	1 hour	Self-Paced Lab
Introduction to Elastic Load Balancing	1 hour	Self-Paced Lab
Amazon Route 53 - Amazon Route 53 - Basics	15 minutes	Digital Training
Configuring and Deploying VPCs with Multiple Subnets	1 hour	Digital Training
Introduction to Amazon API Gateway	10 minutes	Digital Training
AWS Network Connectivity Options	1 hour 30 minutes	Digital Training
Comparing VPC Peering and AWS Transit Gateway	3 hours	Self-Paced Lab
Understanding AWS Networking Gateways	30 minutes	Digital Training
Differences Between Security Groups and NACLs	7 minutes	Digital Training
Configuring and Deploying Amazon VPC for a 3-tier Web App	1 hour 30 minutes	Self-Paced Lab

Monitoring and Governance		
Learning Resource	**Duration**	**Type**
Monitoring Security Groups with Amazon CloudWatch Events	1 hour	Self-Paced Lab
Monitoring Security Groups with AWS Config	1 hour	Self-Paced Lab
AWS Network – Monitoring and Troubleshooting	1 hour	Digital Training
Getting Started with AWS CloudFormation	20 minutes	Digital Training
Launching and Managing a Web Application with AWS CloudFormation	1 hour 50 min	Self-Paced Lab
AWS Well-Architected	1 hour 30 minutes	Digital Training
AWS Well-Architected Considerations for Financial Services	45 minutes	Digital Training

Serverless		
Learning Resource	**Duration**	**Type**
AWS Lambda Foundations	2 hours	Digital Training
Deploying Your First AWS Lambda Container	1 hour	Self-Paced Lab
Architecting Serverless Applications	2 hours	Digital Training
Scaling Serverless Architectures	1.5 hours	Digital Training

Container and Migration

Learning Resource	Duration	Type
Amazon Elastic Container Service (ECS) Primer	30 minutes	Digital Training
Introduction to Database Migration	45 minutes	Digital Training

Cost Management

Learning Resource	Duration	Type
AWS Foundations: Cost Management	35 minutes	Digital Training
Amazon Simple Storage Service (Amazon S3) Cost Optimization	1 hour	Digital Training
Deep Dive: Amazon Elastic Block Store (Amazon EBS) Cost Optimization	30 minutes	Digital Training

Take the AWS Certified Solutions Architect - Associate exam

Learning Resource	Duration	
Architecting on AWS	3 days	Instructor-Led Training
Exam Prep: AWS Certified Solutions Architect – Associate	3 hours	Exam Prep

Advanced Curriuculum

Learning Resource	Duration	
AWS Storage Gateway Deep Dive: Volume Gateway	1 hour 15 minutes	Digital Training
AWS Storage Gateway Deep Dive: Amazon S3 File Gateway	1 hour 5 minutes	Digital Training
Introduction to Step Functions	35 minutes	Digital Training
Migration Evaluator Overview for Customers	30 minutes	Digital Training
Migrating to AWS: Lift and Shift to Serverless	1 hour	Self-Paced Lab
AWS Backup Primer	1 hour 10 minutes	Digital Training
Implementing Multi-Region Backup with Amazon S3 Cross-Region	1 hour	Self-Paced Lab
AWS Systems Manager	3 hours	Digital Training
Processing App Microservice Messages with Containers (Amazon)	1 hour	Self-Paced Lab
Policy Creation Challenge	2 hours	Self-Paced Lab
Auditing Your Security with AWS Trusted Advisor	1 hour 30 min	Self-Paced Lab
AWS Federated Authentication with AD FS	1 hour	Self-Paced Lab
Working with Amazon CloudFront for Dynamic Content Acceleration	2 hours	Self-Paced Lab

Deep Dive with Security: AWS Identity and Access Management (IAM)	8 hours	Digital Training
Securing and Protecting Your Data in Amazon Simple Storage Service	1 hour 40 minutes	Digital Training
Protecting Your Instance with Security Groups	7 minutes	Digital Training
Update Security Groups Automatically Using AWS Lambda	1 hour	Self-Paced Lab
Scale Your Security Vulnerability Testing with Amazon Inspector	30 minutes	Self-Paced Lab
Rogue Permissions Challenge	1 hour	Self-Paced Lab
Role Assumption Challenge	2 hours	Self-Paced Lab
Filtering and Blocking Web Incursions with AWS WAF	1 hour	Self-Paced Lab
Using Data Encryption in AWS	1 hour	Self-Paced Lab

Take the AWS Certified Solutions Architect - Professional Exam

Learning Resource	Duration	
Advanced Architecting on AWS	3 days	Instructor-led Training
Exam Readiness: AWS Certified Solutions Architect – Professional	4 hours	Exam Prep

Explore Additional Resources

Learning Resource	Duration	Type
How AWS Pricing Works	3.5 hours	Whitepaper
AWS Well-Architected	15 minutes	Webpage
AWS Well-Architected Framework	2 hours	Whitepaper
Shared Responsibility Model	10 minutes	Webpage
Best Practices for Security, Identity, & Compliance	2 hours	Webpage
AWS Security Best Practices	30 minutes	Blogs
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
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
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
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

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**

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