

# AWS Ramp-Up Guide: Solutions 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 Solutions 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).

Fundamentals		
Learning Resource	Duration	Type
AWS Technical Essentials	4 hour 30 minutes	<a href="#">Digital Training</a>
Identity and Security		
Learning Resource	Duration	Type
Introduction to AWS Identity and Access Management (IAM)	7 minutes	<a href="#">Digital Training</a>
Introduction to AWS Identity and Access Management (IAM)	45 minutes	<a href="#">Self-Paced Lab</a>
Getting Started with AWS Security, Identity, and Compliance	3 hours	<a href="#">Digital Training</a>
Performing a Basic Audit of your AWS Environment	1 hour	<a href="#">Self-Paced Lab</a>
Introduction to AWS Key Management Service	1 hour	<a href="#">Self-Paced Lab</a>
Compute and Storage		
Learning Resource	Duration	Type
AWS Compute Services Overview	40 minutes	<a href="#">Digital Training</a>
Getting Started with AWS Storage	3 hours 15 minutes	<a href="#">Digital Training</a>
Getting Started with Amazon Simple Storage Service (Amazon S3)	1 hour	<a href="#">Digital Training</a>
Introduction to Amazon Simple Storage Service (S3)	1 hour	<a href="#">Self-Paced Lab</a>
Amazon Elastic Block Store (Amazon EBS) Primer	1 hour 30 min	<a href="#">Digital Training</a>
AWS Database Offerings	4 hours	<a href="#">Digital Training</a>
Troubleshooting: Amazon DynamoDB	45 minutes	<a href="#">Digital Training</a>
Amazon RDS Service Primer	20 minutes	<a href="#">Digital Training</a>
Networking		

# AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers



Learning Resource	Duration	Type
AWS Networking Basics	2 hours	<a href="#">Digital Training</a>
Subnets, Gateways, and Route Tables Explained	20 minutes	<a href="#">Digital Training</a>
Building Your First Amazon Virtual Private Cloud (VPC)	1 hour	<a href="#">Self-Paced Lab</a>
Introduction to Elastic Load Balancing	1 hour	<a href="#">Self-Paced Lab</a>
Amazon Route 53 - Amazon Route 53 - Basics	15 minutes	<a href="#">Digital Training</a>
Configuring and Deploying VPCs with Multiple Subnets	1 hour	<a href="#">Digital Training</a>
Introduction to Amazon API Gateway	10 minutes	<a href="#">Digital Training</a>
AWS Network Connectivity Options	1 hour 30 minutes	<a href="#">Digital Training</a>
Comparing VPC Peering and AWS Transit Gateway	3 hours	<a href="#">Self-Paced Lab</a>
Understanding AWS Networking Gateways	30 minutes	<a href="#">Digital Training</a>
Differences Between Security Groups and NACLs	7 minutes	<a href="#">Digital Training</a>
Configuring and Deploying Amazon VPC for a 3-tier Web App	1 hour 30 minutes	<a href="#">Self-Paced Lab</a>
Monitoring and Governance		
Learning Resource	Duration	Type
Monitoring Security Groups with Amazon CloudWatch Events	1 hour	<a href="#">Self-Paced Lab</a>
Monitoring Security Groups with AWS Config	1 hour	<a href="#">Self-Paced Lab</a>
AWS Network – Monitoring and Troubleshooting	1 hour	<a href="#">Digital Training</a>
Getting Started with AWS CloudFormation	20 minutes	<a href="#">Digital Training</a>
Launching and Managing a Web Application with AWS CloudFormation	1 hour 50 min	<a href="#">Self-Paced Lab</a>
AWS Well-Architected	1 hour 30 minutes	<a href="#">Digital Training</a>
AWS Well-Architected Considerations for Financial Services	45 minutes	<a href="#">Digital Training</a>
Serverless		
Learning Resource	Duration	Type
AWS Lambda Foundations	2 hours	<a href="#">Digital Training</a>
Deploying Your First AWS Lambda Container	1 hour	<a href="#">Self-Paced Lab</a>
Architecting Serverless Applications	2 hours	<a href="#">Digital Training</a>
Scaling Serverless Architectures	1.5 hours	<a href="#">Digital Training</a>

# AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers



Container and Migration		
Learning Resource	Duration	Type
Amazon Elastic Container Service (ECS) Primer	30 minutes	<a href="#">Digital Training</a>
Introduction to Database Migration	45 minutes	<a href="#">Digital Training</a>
Cost Management		
Learning Resource	Duration	Type
AWS Foundations: Cost Management	35 minutes	<a href="#">Digital Training</a>
Amazon Simple Storage Service (Amazon S3) Cost Optimization	1 hour	<a href="#">Digital Training</a>
Deep Dive: Amazon Elastic Block Store (Amazon EBS) Cost Optimization	30 minutes	<a href="#">Digital Training</a>
Take the AWS Certified Solutions Architect - Associate exam		
Learning Resource	Duration	
Architecting on AWS	3 days	<a href="#">Instructor-Led Training</a>
Exam Prep: AWS Certified Solutions Architect – Associate	3 hours	<a href="#">Exam Prep</a>
Advanced Curriculum		
Learning Resource	Duration	
AWS Storage Gateway Deep Dive: Volume Gateway	1 hour 15 minutes	<a href="#">Digital Training</a>
AWS Storage Gateway Deep Dive: Amazon S3 File Gateway	1 hour 5 minutes	<a href="#">Digital Training</a>
Introduction to Step Functions	35 minutes	<a href="#">Digital Training</a>
Migration Evaluator Overview for Customers	30 minutes	<a href="#">Digital Training</a>
Migrating to AWS: Lift and Shift to Serverless	1 hour	<a href="#">Self-Paced Lab</a>
AWS Backup Primer	1 hour 10 minutes	<a href="#">Digital Training</a>
Implementing Multi-Region Backup with Amazon S3 Cross-Region	1 hour	<a href="#">Self-Paced Lab</a>
AWS Systems Manager	3 hours	<a href="#">Digital Training</a>
Processing App Microservice Messages with Containers (Amazon)	1 hour	<a href="#">Self-Paced Lab</a>
Policy Creation Challenge	2 hours	<a href="#">Self-Paced Lab</a>
Auditing Your Security with AWS Trusted Advisor	1 hour 30 min	<a href="#">Self-Paced Lab</a>
AWS Federated Authentication with AD FS	1 hour	<a href="#">Self-Paced Lab</a>
Working with Amazon CloudFront for Dynamic Content Acceleration	2 hours	<a href="#">Self-Paced Lab</a>

# AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers



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

## Take the AWS Certified Solutions Architect - Professional Exam

Learning Resource	Duration	
Advanced Architecting on AWS	3 days	<a href="#">Instructor-led Training</a>
Exam Readiness: AWS Certified Solutions Architect – Professional	4 hours	<a href="#">Exam Prep</a>

## Explore Additional Resources

Learning Resource	Duration	Type
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>
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 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>
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>

# AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers



Backup and Recovery Approaches Using AWS	30 minutes	<a href="#">Whitepaper</a>
Amazon Virtual Private Cloud Connectivity Options	45 minutes	<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</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>

**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](#)**