AWS Ramp-Up Guide: Solutions Architect

For AWS Cloud architects, solutions architects, and engineers

These are the most salient learning resources from our classrooms, digital curricula, video library, and AWS Lab Environment, that relate to the preparing for a Solutions Architect Role. This guide is not intended to be consumed entirely. Different sections tackle different objectives. Some resources will be less relevant to you today.   The guide will help you decide where you want to start your learning journey, and which step should be your next.

Share your opinion of this Ramp-Up Guide with us!

Identity and Security

Learning Resource		Duration (*hrs*)	Type
Introduction to AWS Identity and Access Management (IAM)		0.1	Digital Training
$ Introduction to AWS Identity and Access Management (IAM)		0.8	Self-Paced Lab
AWS Security Fundamentals Second Edition		2.0	Digital Training
$ Performing a Basic Audit of your AWS Environment		1.0	Self-Paced Lab
$ Introduction to AWS Key Management Service		1.0	Self-Paced Lab

Compute and Storage

Learning Resource		Duration (*hrs*)	Type
AWS Compute Services Overview		0.7	Digital Training
Getting Started with AWS Storage		3.3	Digital Training
Getting Started with Amazon Simple Storage Service (Amazon S3)		1.0	Digital Training
$ Introduction to Amazon Simple Storage Service (S3)		1.0	Self-Paced Lab
Amazon Elastic Block Store (Amazon EBS) Primer	Intermediate	1.5	Digital Training
AWS Database Offerings		4.0	Digital Training
Troubleshooting: Amazon DynamoDB		0.8	Digital Training
Amazon RDS Service Primer		0.3	Digital Training

Networking

Learning Resource		Duration (*hrs*)	Type
AWS Networking Basics		2.0	Digital Training
Subnets, Gateways, and Route Tables Explained		0.3	Digital Training
$ Building Your First Amazon Virtual Private Cloud (VPC)		1.0	Self-Paced Lab
$ Introduction to Elastic Load Balancing		1.0	Self-Paced Lab

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	Learning Resource		Duration (*hrs*)	Type
	Configuring and Deploying VPCs with Multiple Subnets	Intermediate	1.0	Digital Training
	Introduction to Amazon API Gateway	Fundamental	0.2	Digital Training
	AWS Network Connectivity Options	Intermediate	1.5	Digital Training
$	Comparing VPC Peering and AWS Transit Gateway	Intermediate	3.0	Self-Paced Lab
	Understanding AWS Networking Gateways	Intermediate	0.5	Digital Training
	Differences Between Security Groups and NACLs	Fundamental	0.1	Digital Training
$	Configuring and Deploying Amazon VPC for a 3-tier Web App	Intermediate	1.5	Self-Paced Lab

Monitoring and Governance				
Learning Resource			**Duration (*hrs*)**	**Type**
	AWS Network – Monitoring and Troubleshooting	Intermediate	1.0	Digital Training
	Getting Started with AWS CloudFormation	Fundamental	0.3	Digital Training
$	Launching and Managing a Web Application with AWS CloudFormation	Intermediate	1.3	Self-Paced Lab
	AWS Well-Architected Considerations for Financial Services	Intermediate	0.8	Digital Training

Serverless				
Learning Resource			**Duration (*hrs*)**	**Type**
	AWS Lambda Foundations	Fundamental	2.0	Digital Training
$	Deploying Your First AWS Lambda Container	Intermediate	1.0	Self-Paced Lab
	Architecting Serverless Applications	Intermediate	2.0	Digital Training
	Scaling Serverless Architectures	Intermediate	1.5	Digital Training

Cost Management				
Learning Resource			**Duration (*hrs*)**	**Type**
	Amazon Simple Storage Service (Amazon S3) Cost Optimization	Advanced	7.0	Digital Training
	Deep Dive: Amazon Elastic Block Store (Amazon EBS) Cost Optimization	Advanced	0.5	Digital Training

Take the AWS Certified Solutions Architect - Associate Exam				
Learning Resource			**Duration (*hrs*)**	**Type**
$	Architecting on AWS	Intermediate	18.0	Classroom Training

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	Learning Resource		Duration (*hrs*)	Type
$	Architecting on AWS (Digital)	Intermediate	18.0	[Digital Classroom Training](#)

Advanced Curriculum

	Learning Resource		Duration (*hrs*)	Type
	AWS Storage Gateway Deep Dive: Volume Gateway	Advanced	1.3	[Digital Training](#)
	AWS Storage Gateway Deep Dive: Amazon S3 File Gateway	Advanced	1.1	[Digital Training](#)
	Introduction to Step Functions	Fundamental	0.6	[Digital Training](#)
$	Migrating to AWS: Lift and Shift to Serverless	Advanced	1.0	[Self-Paced Lab](#)
	AWS Backup Primer	Intermediate	1.2	[Digital Training](#)
$	Implementing Multi-Region Backup with Amazon S3 Cross-Region	Advanced	1.0	[Self-Paced Lab](#)
$	Processing App Microservice Messages with Containers	Intermediate	1.0	[Self-Paced Lab](#)
$	Auditing Your Security with AWS Trusted Advisor	Intermediate	1.5	[Self-Paced Lab](#)
$	AWS Federated Authentication with AD FS	Intermediate	1.0	[Self-Paced Lab](#)
$	Working with Amazon CloudFront for Dynamic Content Acceleration	Intermediate	2.0	[Self-Paced Lab](#)
	Deep Dive with Security: AWS Identity and Access Management (IAM)	Advanced	8.0	[Digital Training](#)
	Securing and Protecting Your Data in Amazon Simple Storage Service	Advanced	1.6	[Digital Training](#)
	Protecting Your Instance with Security Groups	Fundamental	0.1	[Digital Training](#)
$	Update Security Groups Automatically Using AWS Lambda	Intermediate	1.0	[Self-Paced Lab](#)
$	Scale Your Security Vulnerability Testing with Amazon Inspector	Intermediate	0.5	[Self-Paced Lab](#)
$	Role Assumption Challenge	Advanced	2.0	[Self-Paced Lab](#)
$	Filtering and Blocking Web Incursions with AWS WAF	Intermediate	1.0	[Self-Paced Lab](#)
$	Using Data Encryption in AWS	Advanced	1.0	[Self-Paced Lab](#)
	Earn a Solutions Architect Learning Badge			[Learning Plan](#)

With Our Training Partners

	Learning Resource		Duration (*hrs*)	Type
$	Architecting Solutions on AWS	Intermediate	20.0	[Coursera Digital Training](#)
$	Architecting Solutions on AWS	Intermediate	20.0	[edX Digital Training](#)

Game-based Learning

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Learning Resource	Duration (*hrs*)	Type
$ AWS Cloud Quest: Solutions Architect	12+	Game-based Learning

Twitch On-demand Broadcasts		
Learning Resource	**Duration (*hrs*)**	**Type**
AWS Cloud Quest: Architecting (Twitch training)	1.5	On-demand Stream
AWS Power Hour: Architecting – Associate (Exam Prep)	1.5	On-demand Stream
AWS Power Hour: Architecting – Professional (Exam Prep)	1.5	On-demand Stream

Take the AWS Certified Solutions Architect - Professional Exam		
Learning Resource	**Duration (*hrs*)**	**Type**
$ Advanced Architecting on AWS	18.0	Instructor-led Training
Exam Readiness: AWS Certified Solutions Architect – Professional	4.0	Exam Prep

Additional Resources		
Learning Resource		**Type**
AWS Well-Architected		Webpage
Shared Responsibility Model		Webpage
Best Practices for Security, Identity, & Compliance		Webpage
AWS Security Best Practices		Blogs
AWS Architecture Center		Webpage
AWS CLI Introduction		Video
Well-Architected Labs		Lab
AWS Certified Solutions Architect - Associate		Webpage
Sample CloudFormation Templates		Webpage
Best Practices for Building Amazon Machine Images (AMIs)		Webpage
AWS Elastic Disaster Recovery		Webpage
Serverless Architectural Patterns and Best Practices (from AWS re:Invent)		Video