



# LỘ TRÌNH HỌC AWS SOLUTION ARCHITECT ASSOCIATE

13/10/2021

*Learn, Build and Share!*



Certified

# KEY CONTENTS

1. Why AWS SAA?
2. Study plan
3. Core services
4. Material self-study
5. Personal thoughts

# WHY AWS SAA?

# WHY AWS SAA?

**Most Valuable IT Certifications, 2021**  
(Source: Global Knowledge Study, 15 Top-Paying IT Certifications for 2021)

Certification	Annual Salary
Google Certified Professional Data Engineer	\$ 171,749
Google Certified Professional Cloud Architect	\$ 169,029
AWS Certified Solutions Architect - Associate	\$ 159,033
CRISC - Certified in Risk and Information Systems Control	\$ 151,995
CISSP - Certified Information Systems Security Professional	\$ 151,853
CISM – Certified Information Security Manager	\$ 149,246
PMP® - Project Management Professional	\$ 148,906
NCP-MCI - Nutanix Certified Professional - Multicloud Infrastructure	\$ 142,810
CISA - Certified Information Systems Auditor	\$ 134,460
VCP-DVC - VMware Certified Professional - Data Center Virtualization 2020	\$ 132,947
MCSE: Windows Server	\$ 125,980
Microsoft Certified: Azure Administrator Associate	\$ 121,420
CCNP Enterprise - Cisco Certified Network Professional - Enterprise	\$ 118,911
CCA-V - Citrix Certified Associate - Virtualization	\$ 115,308
CompTIA Security+	\$ 110,974

# WHY AWS SAA?

Figure 1: Magic Quadrant for Cloud Infrastructure and Platform Services



Source: Gartner (July 2021)



# WHY AWS SAA?

## Professional

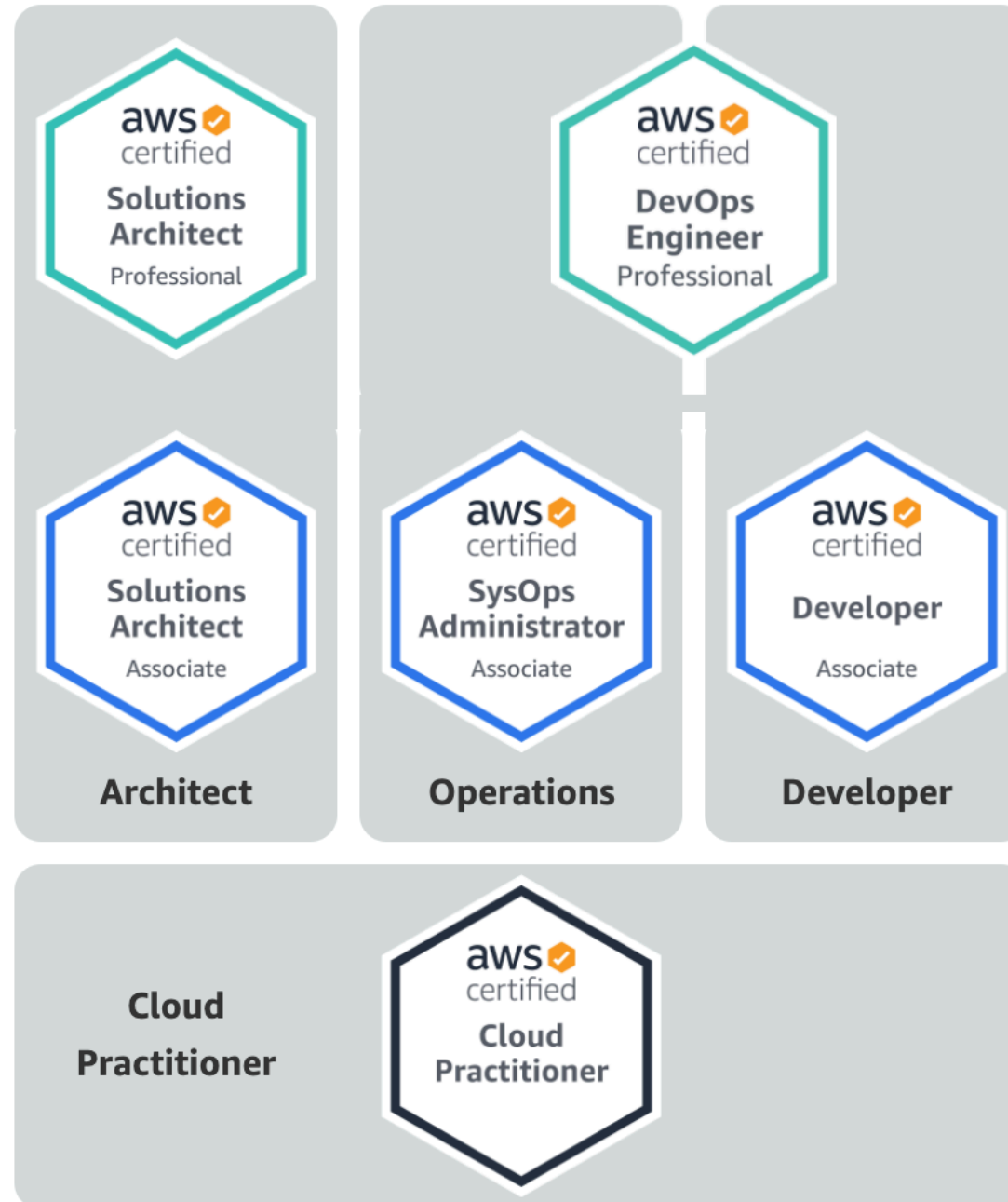
**Two years** of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud

## Associate

**One year** of experience solving problems and implementing solutions using the AWS Cloud

## Foundational

**Six months** of fundamental AWS Cloud and industry knowledge



## Specialty

Technical AWS Cloud experience in the Specialty domain as specified in the **exam guide**



# STUDY PLAN

- **Objectives:**
  1. Pass SAA Examination
  2. AWS Core Services hands-on
  3. Speed-up in real projects
- **Duration:** ~200 hours
- **Basic Knowledge:**
  - Infrastructure: Networking, OS, Database, Security
  - English (reading skill)



# STUDY PLAN - WEEK 1

No	Content
1	Understand yourself, objectives, commitments, adjust personal plan
2	AWS Global Infrastructure, choosing AWS Region
3	Create AWS Account, Free tier, Setup AWS Account
4	Amazon S3, Storage class, Glacier, Snowball, Versioning, CORS, Access Control, Bucket Policy, Multipart upload,
5	Hands-on: Hosting a static website by using Amazon S3

# STUDY PLAN - WEEK 2

No	Content
1	Amazon EC2: families, AMI, User data, Metadata, EBS, Instance store,
2	EFS, FSx
3	EC2 Pricing Options
4	Dedicated Host vs Dedicated Instance
5	Cluster Placement Group, Spread placement group, Partition Placement Group

# STUDY PLAN - WEEK 3

No	Content
1	VPC core concepts: Subnet, Security group, NACL, IGW, VGW, NAT, Route table, VPC Peering, VPC Endpoints
2	Amazon Transit Gateway, Direct Connect, VPN
3	VPC Flow logs, Bastion Hosts, ENI, EIP
4	ELB, Route 53, Amazon Cognito, STS, AWS Organization
5	IAM: roles, users, group, federated, assume role Resource based policy & Identity based policy

# STUDY PLAN - WEEK 4

No	Content
1	Database: RDS, DynamoDB, DMS
2	Aurora Serverless & Global database
3	Dynamodb Global table, PK, SK
4	Auto scaling database, Security, high availability
5	Hands-on: Build 3 tier application on AWS

No	Content
1	Amazon CloudWatch: Log Group, Event, Rule, Alarm, Metrics, Targets
2	Amazon CloudTrail
3	SQS, SNS, Amazon MQ
4	CloudFront, Global Accelerator
5	WAF, Shield



# STUDY PLAN - WEEK 6

No	Content
1	ElastiCache, DAX
2	Amazon Kinesis, ElasticSearch
3	EMR, Athena, Redshift
4	Elastic Beanstalk, OpsWork, CloudFormation
5	AWS System Manager, AWS Quick Starts



No	Content
1	ECS, EKS, Fargate
2	AWS Directory Services
3	AWS SSO
4	Amazon KMS, AWS Secrets Manager, AWS Glue, AWS Service Catalog
5	AWS Config, AWS Batch, Amazon X-Ray, AWS RAM

# STUDY PLAN - WEEK 8

No	Content
1	AWS Lambda, API Gateway, AWS Step Functions
2	SAM, Amazon Guard Duty, Amazon Inspector
3	Amazon Macie, Amazon Workspace, Amazon WorkDocs
4	AWS AppSync, AWS Amplify, AWS Code Family
5	Exam Readiness

# AWS CORE SERVICES

1. Storage: S3, EBS, EFS, SnowBall
2. Networking: VPC, DX, VPN, NAT, R53, ELB
3. Database: RDS, DynamoDB, Redshift
4. Caching: CloudFront, ElastiCache, DAX
5. Automation: CloudFormation, ElasticBeanstalk, OpsWork, System Manager
6. Rearchitecting: API Gateway, Lambda, Step functions, SQS, SNS, ECS, EKS
7. Monitoring & Audit: CloudWatch, CloudTrail, X-Ray
8. Identity: IAM, Cognito, Directory Services, SSO, STS
9. Security: WAF, Shield,
10. Data: Glue, Athena, EMR, Kinesis, QuickSight

# MATERIALS

- **AWS** Documentation: [docs.aws.amazon.com](https://docs.aws.amazon.com)
- **AWS** Training: <https://aws.training>
- **AWS** Whitepaper & FAQ
- **Youtube**: This is my architect, Re-invent
- **Udemy**: Stephane Maarek, Jon Bonso, Dolphined, Adrian Cantrill, A Cloud Guru
- **Cloude mind** channel ^^



# FINAL THOUGHTS

# MY PERSONAL THOUGHTS

1. Cert is a good start point, not a **destination**.
2. Life long learning
3. Master a domain before expanding
4. Hands-on and hands-on more and more
5. Good things take time

***Thank YOU!***