

4-Week Plan Based on Stephane Maarek's AWS Course

Week 1: Foundations and Core Services

- **Day 1 (2 hours)**
 - **Introduction:** Understand the course structure and objectives. (~12 min)
 - **Code & Slides Download:** Access course materials for reference (~1 min).
 - **What is Cloud Computing?** (~33 min): Learn basic concepts and AWS's role in cloud computing.
 - **Hands-on Task:** Open the AWS Management Console and explore the dashboard.
 - **Day 2 (2-3 hours)**
 - **IAM - Identity and Access Management** (~56 min): Understand users, roles, and policies.
 - **Hands-on Task:** Create IAM users and assign permissions.
 - **Day 3 (2-3 hours)**
 - **EC2 - Elastic Compute Cloud** (~1 hr 30 min): Learn the basics of launching and managing virtual servers.
 - **Hands-on Task:** Launch an EC2 instance, connect to it, and explore its settings.
 - **Day 4 (2-3 hours)**
 - **EC2 Instance Storage** (~43 min): Study EBS and instance store.
 - **Hands-on Task:** Attach an EBS volume to an EC2 instance.
 - **Day 5 (2 hours)**
 - **ELB & ASG - Elastic Load Balancing and Auto Scaling** (~39 min): Learn how AWS balances traffic and scales workloads.
 - **Hands-on Task:** Create a simple load balancer for EC2 instances.
 - **Day 6 (2-3 hours)**
 - **Amazon S3** (~1 hr 1 min): Explore S3 buckets, lifecycle rules, and object storage.
 - **Hands-on Task:** Create an S3 bucket, upload files, and configure access.
 - **Day 7 (2-3 hours)**
 - **Review and Quiz:** Revisit key concepts (IAM, EC2, S3, ELB).
 - Take a practice quiz or use flashcards for foundational topics.
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Week 2: Databases, Networking, and Deployments

- **Day 1 (2-3 hours)**
 - **Databases & Analytics (~50 min):**
Learn about RDS, DynamoDB, and database use cases.
 - **Hands-on Task:** Set up an RDS instance and query it.
 - **Day 2 (2-3 hours)**
 - **Other Compute Services: ECS, Lambda, Batch, Lightsail (~40 min):**
Understand serverless computing and containerization.
 - **Hands-on Task:** Explore Lambda by creating a simple function.
 - **Day 3 (2-3 hours)**
 - **Deployments & Managing Infrastructure at Scale (~48 min):**
Study tools like CloudFormation and Elastic Beanstalk.
 - **Hands-on Task:** Use Elastic Beanstalk to deploy a simple web application.
 - **Day 4 (2-3 hours)**
 - **VPC & Networking (~33 min):**
Learn the basics of VPC, subnets, and routing.
 - **Hands-on Task:** Create a VPC with public and private subnets.
 - **Day 5 (2-3 hours)**
 - **Leveraging the AWS Global Infrastructure (~48 min):**
Study regions, availability zones, and edge locations.
 - **Day 6 (2 hours)**
 - **Cloud Monitoring (~40 min):**
Learn about CloudWatch and Trusted Advisor.
 - **Hands-on Task:** Set up a CloudWatch alarm for an EC2 instance.
 - **Day 7 (2-3 hours)**
 - **Review and Quiz:** Focus on databases, compute services, and VPC.
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Week 3: Security, Billing, and Additional Services

- **Day 1 (2-3 hours)**
 - **Security & Compliance (~56 min):**
Study KMS, Shield, and CloudTrail.
 - **Hands-on Task:** Enable CloudTrail and analyze logs.

- **Day 2 (2-3 hours)**
 - **Account Management, Billing & Support** (~1 hr 15 min):
Learn cost management and billing tools.
 - **Hands-on Task:** Set a budget in Cost Explorer.
 - **Day 3 (2 hours)**
 - **Advanced Identity** (~9 min):
Study federated identities and directory services.
 - **Day 4 (2-3 hours)**
 - **Other Services** (~37 min):
Explore Elastic Transcoder, AppSync, and more.
 - **Day 5 (2 hours)**
 - **Machine Learning** (~20 min):
Introduction to machine learning with AWS services.
 - **Day 6 (2-3 hours)**
 - **AWS Architecting & Ecosystem** (~54 min):
Study best practices for cloud solutions.
 - **Day 7 (2-3 hours)**
 - **Review and Quiz:** Emphasize security, billing, and architecting.
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Week 4: Exam Prep and Practice

- **Day 1-6**
 - **Exam Preparation Section** (~23 min):
Go through exam-specific tips and strategies.
 - Take full-length mock exams (one every two days).
 - Review incorrect answers thoroughly and revisit weak sections.
- **Day 7**
 - **Congratulations Section** (~9 min):
Celebrate your progress and get ready for the actual exam

Week	Day	Topic	Time	Focus	Hands-on Tasks
Week 1	Day 1	Introduction, Code & Slides, What is Cloud Computing?	2 hours	Understand course structure and cloud basics	Explore AWS Console
	Day 2	IAM - Identity and Access Management	2-3 hours	Study IAM users, roles, policies	Create IAM users, assign permissions
	Day 3	EC2 - Elastic Compute Cloud	2-3 hours	Learn EC2 instance management	Launch EC2 instance, connect to it
	Day 4	EC2 Instance Storage	2-3 hours	Understand EBS and instance store	Attach EBS volume to EC2
	Day 5	ELB & ASG - Elastic Load Balancing & Auto Scaling	2-3 hours	Learn load balancing and scaling	Set up a load balancer for EC2
	Day 6	Amazon S3	2-3 hours	Explore S3 buckets and object storage	Create an S3 bucket, upload files
	Day 7	Review and Quiz	2 hours	Reinforce IAM, EC2, S3, ELB	Take a practice quiz
Week 2	Day 1	Databases & Analytics	2-3 hours	Study RDS, DynamoDB	Set up an RDS instance and query
	Day 2	Other Compute Services: ECS, Lambda, Batch, Lightsail	2-3 hours	Learn serverless computing and containers	Create a Lambda function
	Day 3	Deployments & Managing Infrastructure at Scale	2-3 hours	Study CloudFormation and Elastic Beanstalk	Deploy an app via Elastic Beanstalk

	Day 4	VPC & Networking	2-3 hours	Understand VPC, subnets, and routing	Create a VPC with subnets
	Day 5	Leveraging the AWS Global Infrastructure	2 hours	Study regions, AZs, edge locations	Explore AWS infrastructure on the Console
	Day 6	Cloud Monitoring	2-3 hours	Learn about CloudWatch	Set up a CloudWatch alarm
	Day 7	Review and Quiz	2-3 hours	Reinforce databases, compute, and VPC	Review weak areas
Week 3	Day 1	Security & Compliance	2-3 hours	Study KMS, Shield, CloudTrail	Enable CloudTrail and analyze logs
	Day 2	Account Management, Billing & Support	2-3 hours	Understand cost management and billing	Set a budget in Cost Explorer
	Day 3	Advanced Identity	2 hours	Study federated identities	Review identity management concepts
	Day 4	Other Services	2-3 hours	Explore AppSync, Transcoder, etc.	Explore additional AWS services
	Day 5	Machine Learning	2 hours	Learn about AWS machine learning tools	Try a simple ML model with AWS
	Day 6	AWS Architecting & Ecosystem	2-3 hours	Study best practices for AWS architecture	Review architecture patterns
	Day 7	Review and Quiz	2-3 hours	Reinforce security, billing, and architecture	Practice with quiz and review concepts
Week 4	Day 1-6	Exam Preparation + Practice Exam	2-3 hours	Focus on exam strategies and review weak spots	Take a full-length mock exam every two days

