

Course content

Section 1: Introduction - AWS Certified Solution...

6 / 6 | 13min

1. Course Introduction - AWS Certified Solutions Architect Associate

4min

2. PLEASE READ: Lectures you can skip if you took a course from me before

1min

3. Creating an AWS Account

2min

4. AWS Account Activation Troubleshooting

2min

5. Important Message

1min

6. About your instructor

3min

Resources

Section 2: Code & Slides Download

0 / 1 | 1min

7. Slides and Code Download

1min

Resources

Section 3: Getting started with AWS

3 / 3 | 14min

8. AWS Cloud Overview - Regions & AZ

8min

9. Tour of the AWS Console & Services in AWS

4min

10. About the UI changes in the course

2min

Section 4: IAM & AWS CLI

20 / 20 | 55min

11. IAM Introduction: Users, Groups, Policies

3min

12. IAM Users & Groups Hands On

6min

13. IAM Policies

3min

14. IAM Policies Hands On

8min

15. IAM MFA Overview

4min

16. IAM MFA Hands On

4min

17. AWS Access Keys, CLI and SDK

4min

18. AWS CLI Setup on Windows

2min

19. AWS CLI Setup on Mac OS X

1min

20. AWS CLI Setup on Linux

2min

21. AWS CLI Hands On

4min

22. AWS CloudShell: Region Availability

1min

23. AWS CloudShell

4min

24. IAM Roles for AWS Services

2min

25. IAM Roles Hands On

2min

26. IAM Security Tools

1min

27. IAM Security Tools Hands On

2min

28. IAM Best Practices

1min

29. IAM Summary

1min

Quiz 1: IAM & AWS CLI Quiz

Section 5: EC2 Fundamentals

16 / 17 | 1hr 40min

30. AWS Budget Setup

5min

31. EC2 Basics

5min

32. Create an EC2 Instance with EC2 User Data to have a Website Hands On

14min

33. EC2 Instance Types Basics

6min

34. Security Groups & Classic Ports Overview

7min

35. Security Groups Hands On

5min

36. SSH Overview

3min

37. How to SSH using Linux or Mac

7min

38. How to SSH using Windows

6min

39. How to SSH using Windows 10

5min

40. SSH Troubleshooting

1min

41. EC2 Instance Connect

3min

42. EC2 Instance Roles Demo

4min

43. EC2 Instance Purchasing Options

10min

44. Spot Instances & Spot Fleet

10min

45. EC2 Instances Launch Types Hands On

9min

Quiz 2: EC2 Fundamentals Quiz

Section 6: EC2 - Solutions Architect...

9 / 10 | 34min

46. Private vs Public vs Elastic IP

5min

47. Private vs Public vs Elastic IP Hands On

6min

48. EC2 Placement Groups

6min

49. EC2 Placement Groups - Hands On

2min

50. Elastic Network Interfaces (ENI) - Overview

2min

51. Elastic Network Interfaces (ENI) - Hands On

5min

52. ENI - Extra Reading

1min

53. EC2 Hibernate

3min

54. EC2 Hibernate - Hands On

4min

Quiz 3: EC2 SAA Level Quiz

Section 7: EC2 Instance Storage

15 / 15 | 59min

55. EBS Overview

5min

56. EBS Hands On

6min

57. EBS Snapshots

2min

58. EBS Snapshots - Hands On

4min

59. AMI Overview

3min

60. AMI Hands On

5min

61. EC2 Instance Store

3min

62. EBS Volume Types

5min

63. EBS Multi-Attach

2min

64. EBS Encryption

4min

65. Amazon EFS

5min

66. Amazon EFS - Hands On

13min

67. EFS vs EBS

2min

68. EBS & EFS - Section Cleanup

2min

Quiz 4: EC2 Data Management Quiz

Section 8: High Availability and...

19 / 19 | 1hr 34min

69. High Availability and Scalability

5min

70. Elastic Load Balancing (ELB) Overview

6min

71. Note: About the Classic Load Balancer (CLB)

1min

72. Application Load Balancer (ALB)

6min

73. Application Load Balancer (ALB) - Hands On - Part 1

9min

74. Application Load Balancer (ALB) - Hands On - Part 2

6min

75. Network Load Balancer (NLB)

4min

76. Network Load Balancer (NLB) - Hands On

6min

77. Gateway Load Balancer (GWLB)

4min

78. Elastic Load Balancer - Sticky Sessions

6min

79. Elastic Load Balancer - Cross Zone Load Balancing

6min

80. Elastic Load Balancer - SSL Certificates

6min

81. Elastic Load Balancer - SSL Certificates - Hands On

2min

82. Elastic Load Balancer - Connection Draining

2min

83. Auto Scaling Groups (ASG) Overview

5min

84. Auto Scaling Groups Hands On

9min

85. Auto Scaling Groups - Scaling Policies

4min

86. Auto Scaling Groups - Scaling Policies Hands On

9min

Quiz 5: High Availability & Scalability Quiz

Section 9: AWS Fundamentals: RDS +...

14 / 15 | 1hr 10min

87. Amazon RDS Overview

4min

88. RDS Read Replicas vs Multi AZ

7min

89. Amazon RDS Hands On

11min

90. RDS Custom for Oracle and Microsoft SQL Server

2min

91. Amazon Aurora

6min

92. Amazon Aurora - Hands On

8min

93. Amazon Aurora - Advanced Concepts

6min

94. RDS & Aurora - Backup and Monitoring

6min

95. RDS Security

3min

96. RDS Proxy

5min

97. ElastiCache Overview

4min

98. ElastiCache Hands On

5min

99. ElastiCache for Solution Architects

3min

100. List of Ports to be familiar with

1min

Quiz 6: RDS, Aurora, & ElastiCache Quiz

Section 10: Route 53

19 / 20 | 1hr
22min

101. What is a DNS ?

6min

102. Route 53 Overview

6min

103. Route 53 - Registering a domain

3min

104. Route 53 - Creating our first records

4min

105. Route 53 - EC2 Setup

6min

106. Route 53 - TTL

5min

107. Route 53 CNAME vs Alias

7min

108. Routing Policy - Simple

4min

109. Routing Policy - Weighted

5min

110. Routing Policy - Latency

5min

111. Route 53 - Health Checks

5min

112. Route 53 - Health Checks Hands On

5min

113. Routing Policy - Failover

4min

114. Routing Policy - Geolocation

4min

115. Routing Policy - Geoproximity

3min

116. Routing Policy - IP-based

2min

117. Routing Policy - Multi Value

4min

118. 3rd Party Domains & Route 53

2min

119. Route 53 - Section Cleanup

1min

Quiz 7: Route 53 Quiz

Section 11: Classic Solutions Architecture...

7 / 8 | 45min

120. Solutions Architecture Discussions Overview

1min

121. WhatsTheTime.com

13min

122. MyClothes.com

10min

123. MyWordPress.com

5min

124. Instantiating applications quickly

3min

125. Beanstalk Overview

5min

126. Beanstalk Hands On

9min

Quiz 8: Classic Solutions Architecture Discussions Quiz

Section 12: Amazon S3 Introduction

13 / 14 | 47min

127. S3 Overview

5min

128. S3 Hands On

6min

129. S3 Security: Bucket Policy

5min

130. S3 Security: Bucket Policy Hands On

4min

131. S3 Website Overview

1min

132. S3 Website Hands On

2min

133. S3 Versioning

1min

134. S3 Versioning - Hands On

4min

135. S3 Replication

1min

136. S3 Replication Notes

1min

137. S3 Replication - Hands On

6min

138. S3 Storage Classes Overview

6min

139. S3 Storage Classes Hands On

4min

Quiz 9: Amazon S3 Quiz

Section 13: Advanced Amazon...

7 / 10 | 31min

140. S3 Lifecycle Rules (with S3 Analytics)

4min

141. S3 Lifecycle Rules - Hands On

2min

142. S3 Requester Pays

2min

143. S3 Event Notifications

4min

144. S3 Event Notifications - Hands On

6min

145. S3 Performance

5min

146. S3 Select & Glacier Select

1min

147. S3 Batch Operations

2min

148. S3 Storage Lens

6min

Quiz 10: Amazon S3 Advanced Quiz

Section 14: Amazon S3 Security

14 / 16 | 52min

149. S3 Encryption

8min

150. About DSSE-KMS

1min

151. S3 Encryption - Hands On

5min

152. S3 Default Encryption

1min

153. S3 CORS

4min

154. S3 CORS Hands On

7min

155. S3 MFA Delete

1min

156. S3 MFA Delete Hands On

6min

157. S3 Access Logs

1min

158. S3 Access Logs - Hands On

3min

159. S3 Pre-signed URLs

2min

160. S3 Pre-signed URLs - Hands On

2min

161. Glacier Vault Lock & S3 Object Lock

4min

162. S3 Access Points

4min

163. S3 Object Lambda

3min

Quiz 11: Amazon S3 Security Quiz

Section 15: CloudFront & AWS Global Accelerator

9 / 9 | 35min

164. CloudFront Overview

5min

165. CloudFront with S3 - Hands On

5min

166. CloudFront - ALB as an Origin

2min

167. CloudFront - Geo Restriction

1min

168. CloudFront - Price Classes

2min

169. CloudFront - Cache Invalidation

3min

170. AWS Global Accelerator - Overview

6min

171. AWS Global Accelerator - Hands On

11min

Quiz 12: CloudFront & AWS Global Accelerator Quiz

Section 16: AWS Storage Extras

10 / 11 | 49min

172. AWS Snow Family Overview

11min

173. AWS Snow Family Hands On

3min

174. Architecture: Snowball into Glacier

1min

175. Amazon FSx

8min

176. Amazon FSx - Hands On

3min

177. Storage Gateway Overview

10min

178. Storage Gateway Hands On

2min

179. AWS Transfer Family

2min

180. DataSync - Overview

5min

181. All AWS Storage Options Compared

4min

Quiz 13: AWS Storage Extras Quiz

Section 17: Decoupling applications: SQS, SNS...

18 / 20 | 1hr 33min

182. Introduction to Messaging

3min

183. Amazon SQS - Standard Queues Overview

11min

184. SQS - Standard Queue Hands On

6min

185. SQS - Message Visibility Timeout

5min

186. SQS - Long Polling

2min

187. SQS - FIFO Queues

4min

188. SQS + Auto Scaling Group

5min

189. Amazon Simple Notification Service (AWS SNS)

4min

190. SNS and SQS - Fan Out Pattern

6min

191. SNS - Hands On

5min

192. Amazon Kinesis - Overview

1min

193. Kinesis Data Streams Overview

6min

194. Kinesis Data Streams Hands On

10min

195. Kinesis Data Firehose Overview

5min

196. Kinesis Data Firehose Hands On

8min

197. Kinesis Data Analytics

1min

198. Data Ordering for Kinesis vs SQS FIFO

7min

199. SQS vs SNS vs Kinesis

3min

200. Amazon MQ

3min

Quiz 14: Messaging & Integration Quiz

Section 18: Containers on AWS: ECS, Fargate, EC...

12 / 14 | 53min

201. Docker Introduction

5min

202. Amazon ECS

7min

203. IMPORTANT: ECS UI CHANGES

1min

204. Creating ECS Cluster - Hands On

5min

205. Creating ECS Service - Hands On

10min

206. Amazon ECS - Auto Scaling

3min

207. Amazon ECS - Solutions Architectures

3min

208. Amazon ECS - Clean Up - Hands On

1min

209. Amazon ECR

2min

210. Amazon EKS - Overview

4min

211. Amazon EKS - Hands On

7min

212. AWS App Runner

2min

213. AWS App Runner - Hands On

4min

Quiz 15: Containers on AWS Quiz

Section 19: Serverless Overviews from a...

15 / 17 | 1hr 18min

214. About the Serverless Section

1min

215. Serverless Introduction

2min

216. Lambda Overview

7min

217. Lambda Hands-On

10min

218. Lambda Limits

2min

219. Lambda SnapStart

2min

220. Lambda@Edge & CloudFront Functions

6min

221. Lambda in VPC

3min

222. RDS - Invoking Lambda & Event Notifications

3min

223. Amazon DynamoDB

5min

224. Amazon DynamoDB - Hands-On

5min

225. Amazon DynamoDB - Advanced Features

9min

226. API Gateway Overview

7min

227. API Gateway Basics Hands-On

10min

228. Step Functions

2min

229. Amazon Cognito Overview

7min

Quiz 16: Serverless Overview Quiz

Section 20: Serverless Solution Architecture...

4 / 5 | 16min

230. Mobile Application: MyTodoList

5min

231. Serverless Website: MyBlog.com

6min

232. MicroServices Architecture

4min

233. Software updates distribution

2min

Quiz 17: Serverless Solutions Architecture Discussions Quiz

Section 21: Databases in AWS

11 / 12 | 25min

234. Choosing the right database

3min

235. RDS

3min

236. Aurora

3min

237. ElastiCache

2min

238. DynamoDB

4min

239. S3

3min

240. DocumentDB

1min

241. Neptune

1min

242. Keyspaces (for Apache Cassandra)

1min

243. QLDB

2min

244. Timestream

2min

Quiz 18: Databases in AWS Quiz

Section 22: Data & Analytics

12 / 13 | 50min

245. Athena

5min

246. Athena Hands On

5min

247. Redshift

7min

248. OpenSearch (ex: ElasticSearch)

4min

249. EMR

3min

250. QuickSight

4min

251. Glue

5min

252. Lake Formation

4min

253. Kinesis Data Analytics

4min

254. Kinesis Data Analytics - Hands On

2min

255. MSK - Managed Streaming for Apache Kafka

4min

256. Big Data Ingestion Pipeline

4min

Quiz 19: Data & Analytics Quiz

Section 23: Machine Learning

13 / 14 | 27min

257. Rekognition Overview

4min

258. Transcribe Overview

3min

259. Polly Overview

4min

260. Translate Overview

1min

261. Lex + Connect Overview

2min

262. Comprehend Overview

2min

263. Comprehend Medical Overview

2min

264. SageMaker Overview

3min

265. Forecast Overview

1min

266. Kendra Overview

1min

267. Personalize Overview

2min

268. Textract Overview

1min

269. Machine Learning Summary

1min

Quiz 20: Machine Learning Quiz

Section 24: AWS Monitoring & Audit:...

17 / 18 | 1hr 15min

270. AWS Monitoring - Section Introduction

1min

271. CloudWatch Metrics

4min

272. CloudWatch Logs

6min

273. CloudWatch Logs - Hands On

5min

274. CloudWatch Logs - Live Tail - Hands On

2min

275. CloudWatch Agent & CloudWatch Logs Agent

3min

276. CloudWatch Alarms

4min

277. CloudWatch Alarms Hands On

5min

278. EventBridge Overview (formerly CloudWatch Events)

7min

279. Amazon EventBridge - Hands On

7min

280. CloudWatch Insights and Operational Visibility

6min

281. CloudTrail Overview

6min

282. CloudTrail Hands On

2min

283. CloudTrail - EventBridge Integration

2min

284. AWS Config - Overview

5min

285. AWS Config - Hands On

10min

286. CloudTrail vs CloudWatch vs Config

2min

Quiz 21: Monitoring & Auditing Quiz

Section 25: Identity and Access Management...

9 / 10 | 48min

287. Organizations - Overview

7min

288. Organizations - Hands On

10min

289. IAM - Advanced Policies

4min

290. IAM - Resource-based Policies vs IAM Roles

3min

291. IAM - Policy Evaluation Logic

7min

292. AWS IAM Identity Center

7min

293. AWS Directory Services

6min

294. AWS Directory Services - Hands On

1min

295. AWS Control Tower

3min

Quiz 22: IAM Advanced Quiz

Section 26: AWS Security & Encryption: KMS, SS...

15 / 22 | 1hr 31min

296. AWS Security - Section Introduction

1min

297. Encryption 101

4min

298. KMS Overview

7min

299. KMS Hands On w/ CLI

9min

300. KMS - Multi-Region Keys

6min

301. S3 Replication with Encryption

2min

302. Encrypted AMI Sharing Process

2min

303. SSM Parameter Store Overview

4min

304. SSM Parameter Store Hands On (CLI)

7min

305. SSM Parameter Store Hands On (AWS Lambda)

10min

306. AWS Secrets Manager - Overview

2min

307. AWS Secrets Manager - Hands On

4min

308. AWS Certificate Manager (ACM)

8min

309. Web Application Firewall (WAF)

3min

310. Shield - DDoS Protection

2min

311. Firewall Manager

3min

312. WAF & Shield - Hands On

4min

313. DDoS Protection Best Practices

6min

314. Amazon GuardDuty

3min

315. Amazon Inspector

2min

316. Amazon Macie

1min

Quiz 23: AWS Security & Encryption Quiz

Section 27: Networking - VPC

15 / 38 | 2hr 38min

317. Section Introduction

1min

318. CIDR, Private vs Public IP

7min

319. Default VPC Overview

5min

320. VPC Overview

1min

321. VPC Hands On

2min

322. Subnet Overview

2min

323. Subnet Hands On

4min

324. Internet Gateways & Route Tables

1min

325. Internet Gateways & Route Tables Hands On

7min

326. Bastion Hosts

3min

327. Bastion Hosts Hands On

5min

328. NAT Instances

4min

329. NAT Instances Hands On

6min

330. NAT Gateways

4min

331. NAT Gateways Hands On

3min

332. NACL & Security Groups

11min

333. NACL & Security Groups Hands On

7min

334. VPC Peering

2min

335. VPC Peering Hands On

6min

336. VPC Endpoints

6min

337. VPC Endpoints Hands On

7min

338. VPC Flow Logs

4min

339. VPC Flow Logs Hands On + Athena

10min

340. Site to Site VPN, Virtual Private Gateway & Customer Gateway

4min

341. Site to Site VPN, Virtual Private Gateway & Customer Gateway Hands On

2min

342. Direct Connect & Direct Connect Gateway

7min

343. Direct Connect + Site to Site VPN

1min

344. Transit Gateway

5min

345. VPC Traffic Mirroring

2min

346. IPv6 for VPC

3min

347. IPv6 for VPC - Hands On

4min

348. Egress Only Internet Gateway

3min

349. Egress Only Internet Gateway Hands On

1min

350. Section Cleanup

2min

351. VPC Section Summary

5min

352. Networking Costs in AWS

9min

353. AWS Network Firewall

3min

Quiz 24: VPC Quiz

Section 28: Disaster Recovery & Migrations

2 / 11 | 41min

354. Disaster Recovery in AWS

12min

Resources

355. Database Migration Service (DMS)

5min

356. Database Migration Service (DMS) - Hands On

3min

357. RDS & Aurora Migrations

3min

358. On-Premises Strategies with AWS

3min

359. AWS Backup

3min

360. AWS Backup - Hands On

4min

361. Application Migration Service (MGN)

3min

362. Transferring Large Datasets into AWS

3min

363. VMware Cloud on AWS

2min

Quiz 25: Disaster Recovery & Migration Quiz

Section 29: More Solution Architectures

0 / 6 | 28min

364. Event Processing in AWS

6min

365. Caching Strategies in AWS

3min

366. Blocking an IP Address in AWS

5min

367. High Performance Computing (HPC) on AWS

7min

368. EC2 Instance High Availability

7min

Quiz 26: More Solution Architectures Quiz

**Section 30:
Other Services**

0 / 13 | 38min

369. Other Services Section Introduction

1min

370. CloudFormation Intro

4min

371. CloudFormation - Hands On

9min

372. CloudFormation - Service Role

3min

373. Amazon SES

1min

374. Amazon Pinpoint

2min

375. SSM Session Manager

6min

376. SSM Other Services

5min

377. AWS Cost Explorer

2min

378. AWS Batch

3min

379. Amazon AppFlow

1min

380. AWS Amplify

2min

Quiz 27: Other Services Quiz

Section 31: WhitePapers and Architectures - AW...

0 / 5 | 14min

381. WhitePaper Section Introduction

1min

382. AWS Well-Architected Framework & Well-Architected Tool

6min

383. AWS Trusted Advisor Overview + Hands-On

3min

384. Examples of Architecture - AWS Certified Solutions Architect Associate

4min

Quiz 28: WhitePapers & Architectures Quiz

Section 32: Preparing for the Exam + Practice...

0 / 9 | 17min

385. Exam Preparation - Section Introduction

1min

386. State of Learning Checkpoint - AWS Certified Solutions Architect Associate

4min

387. Exam Tips - AWS Certified Solutions Architect Associate

3min

388. Links to Whitepapers

1min

389. Exam Walkthrough and Signup

4min

390. Save 50% on your AWS Exam Cost!

2min

391. Get an Extra 30 Minutes on your AWS Exam - Non Native English Speakers only

1min

392. How does the exam work?

2min

Practice Test 1: Practice Exam - AWS Certified Solutions Architect Associate

Section 33: Congratulations - AWS...

0 / 4 | 8min

393. AWS Certification Paths

5min

**394. Congratulations - AWS Certified Solutions Architect
Associate**

1min

395. THANK YOU!

2min

396. Bonus Lecture