

# Section 2

## **LESSON: Creating an AWS Free Tier Account**

<https://aws.amazon.com/free/>

## **LESSON: Create an Admin Group and User**

[https://docs.aws.amazon.com/general/latest/gr/aws\\_tasks-that-require-root.html](https://docs.aws.amazon.com/general/latest/gr/aws_tasks-that-require-root.html)

## **LESSON: AWS Global Infrastructure and VPC Overview**

AWS links:

<https://aws.amazon.com/vpc/>

<https://aws.amazon.com/about-aws/global-infrastructure/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/amazon-vpc/>

# Section 3

## **LESSON: EC2 Security Group Lab**

AWS links:

<https://aws.amazon.com/ec2/features/>

<https://aws.amazon.com/ec2/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/amazon-ec2/>

## **LESSON: Instance metadata**

AWS links:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-metadata.html>

## **LESSON: Instance user data**

AWS links:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-metadata.html>

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/user-data.html>

# Section 3

## **LESSON: Status Checks and Monitoring**

AWS links:

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/monitoring-system-instance-status-check.html>

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/monitoring-instances-status-check.html>

## **LESSON: Private Subnets and Bastion Hosts**

AWS links:

<https://aws.amazon.com/blogs/security/securely-connect-to-linux-instances-running-in-a-private-amazon-vpc/>

# Section 4

## **LESSON: Proxy Protocol, X-Forwarded-For and Logging**

<https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/enable-proxy-protocol.html>

<https://docs.aws.amazon.com/elasticloadbalancing/latest/classic/using-elb-listenerconfig-quickref.html>

## **Additional information**

AWS links:

<https://aws.amazon.com/elasticloadbalancing/features/>

<https://aws.amazon.com/elasticloadbalancing/faqs/>

<https://docs.aws.amazon.com/autoscaling/ec2/userguide/what-is-amazon-ec2-auto-scaling.html>

<https://aws.amazon.com/ec2/autoscaling/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/elastic-load-balancing/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/aws-auto-scaling/>

# Section 5

## **LESSON: Create a Custom VPC**

<https://docs.aws.amazon.com/vpc/latest/userguide/vpc-dns.html>

## **LESSON: VPC Flow Logs**

<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs-cwl.html>

# Section 5

## Additional information

AWS links:

<https://aws.amazon.com/vpc/>

<https://aws.amazon.com/about-aws/global-infrastructure/>

<https://docs.aws.amazon.com/vpc/latest/peering/what-is-vpc-peering.html>

<https://aws.amazon.com/transit-gateway/>

<https://docs.aws.amazon.com/vpc/latest/userguide/endpoint-service.html>

<https://docs.aws.amazon.com/vpc/latest/userguide/flow-logs.html>

<https://aws.amazon.com/directconnect/features/>

<https://docs.aws.amazon.com/directconnect/latest/UserGuide/direct-connect-gateways-intro.html>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/aws-direct-connect/>

# Section 6

## **LESSON: Route 53 Overview**

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/amazon-route-53/>

## **Additional information**

AWS links:

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html>

<https://docs.aws.amazon.com/global-accelerator/latest/dg/what-is-global-accelerator.html>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/amazon-route-53/>

# Section 7

## **LESSON: Identity-Based Policy Examples**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/example-policies-s3.html>

<https://docs.aws.amazon.com/AmazonS3/latest/dev/walkthrough1.html>

## **LESSON: Resource-Based Policy Examples**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/example-bucket-policies.html#example-bucket-policies-use-case-4>

## **LESSON: Cross Account Access**

<https://aws.amazon.com/premiumsupport/knowledge-center/cross-account-access-s3/>

## **LESSON: Access Control Lists**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/acl-overview.html>

<https://docs.aws.amazon.com/AmazonS3/latest/dev/acl-overview.html#permissions>



# Section 7

## **LESSON: Choosing Access Control Options**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/access-policy-alternatives-guidelines.html#when-to-use-acl>

## **LESSON: Multipart Upload**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/mpuoverview.html>

<https://docs.aws.amazon.com/AmazonS3/latest/dev/uploadobjusingmpu.html>

<https://aws.amazon.com/premiumsupport/knowledge-center/s3-multipart-upload-cli/>

## **LESSON: Query String Authentication**

<https://docs.aws.amazon.com/AmazonS3/latest/API/sigv4-query-string-auth.html>

## **LESSON: Transfer Acceleration**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/transfer-acceleration.html>

<https://docs.aws.amazon.com/AmazonS3/latest/user-guide/enable-transfer-acceleration.html>

# Section 7

## **LESSON: Static Websites**

<https://dctstaticwebsite.s3-website-ap-southeast-2.amazonaws.com>

<http://dctstaticwebsite.s3-website-ap-southeast-2.amazonaws.com>

<https://docs.aws.amazon.com/AmazonS3/latest/dev/website-hosting-custom-domain-walkthrough.html>

## **LESSON: Versioning and MFA Delete**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/Versioning.html>

## **LESSON: Cross Region Replication**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/crr.html>

## **LESSON: Lifecycle Management**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/object-lifecycle-mgmt.html>

<https://docs.aws.amazon.com/AmazonS3/latest/dev/lifecycle-transition-general-considerations.html>

<https://docs.aws.amazon.com/AmazonS3/latest/dev/lifecycle-expire-general-considerations.html>

# Section 7

## **LESSON: S3 Encryption**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/ServerSideEncryptionCustomerKeys.html>

## **LESSON: Object Lock**

<https://docs.aws.amazon.com/AmazonS3/latest/dev/object-lock.html>

<https://docs.aws.amazon.com/AmazonS3/latest/user-guide/object-lock.html>

# Section 7

## Additional information

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/storage/amazon-s3/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/amazon-cloudfront/>

# Section 8

## **LESSON: Working with Snapshots**

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-deleting-snapshot.html>

## **LESSON: EBS Performance**

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EBSOptimized.html#ebs-optimization-support>

## **LESSON: Create a User Home Directory**

<https://docs.aws.amazon.com/efs/latest/ug/accessing-fs-nfs-permissions-per-user-subdirs.html>

## **Additional information**

AWS links:

<https://aws.amazon.com/ebs/features/>

<https://aws.amazon.com/ebs/faqs/>

<https://aws.amazon.com/efs/features/>

<https://aws.amazon.com/efs/faq/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/amazon-ebs/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/storage/amazon-efs/>

# Section 9

## **LESSON: Setting up for the Labs**

[https://docs.aws.amazon.com/AmazonECS/latest/developerguide/ECS\\_CLI\\_installation.html](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/ECS_CLI_installation.html)

## **LESSON: Upload Image to ECR and create task on Fargate**

[https://docs.aws.amazon.com/AmazonECS/latest/userguide/docker-basics.html#install\\_docker](https://docs.aws.amazon.com/AmazonECS/latest/userguide/docker-basics.html#install_docker)

## **Additional information**

AWS links:

<https://aws.amazon.com/ecs/features/>

<https://aws.amazon.com/ecs/faqs/>

<https://aws.amazon.com/eks/features/>

<https://aws.amazon.com/eks/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/amazon-ecs/>

# Section 10

## **LESSON: Lambda Overview**

<https://docs.aws.amazon.com/lambda/latest/dg/getting-started-create-function.html>

<https://docs.aws.amazon.com/lambda/latest/dg/intro-invocation-modes.html#non-streaming-event-source-mapping>

## **LESSON: Preparing for the Labs**

<https://www.npmjs.com/get-npm>

## **LESSON: Create function to resize images in S3**

<https://docs.aws.amazon.com/lambda/latest/dg/with-s3-example.html>

## **LESSON: Create function to log event when records updated in DynamoDB**

<https://docs.aws.amazon.com/lambda/latest/dg/with-ddb-example.html>

## **LESSON: Build a Hello World API with Lambda Proxy Integration**

<https://docs.aws.amazon.com/apigateway/latest/developerguide/api-gateway-create-api-as-simple-proxy-for-lambda.html>

# Section 10

## **LESSON: Create a Simple Microservice using Lambda and API Gateway**

[https://docs.aws.amazon.com/lambda/latest/dg/with-on-demand-https-example-configure-event-source\\_1.html](https://docs.aws.amazon.com/lambda/latest/dg/with-on-demand-https-example-configure-event-source_1.html)

### **Additional information**

AWS links:

<https://aws.amazon.com/lambda/features/>

<https://aws.amazon.com/lambda/faqs/>

<https://aws.amazon.com/api-gateway/features/>

<https://aws.amazon.com/api-gateway/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/aws-lambda/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/networking-and-content-delivery/amazon-api-gateway/>



# Section 11

## **LESSON: Databases Overview**

<https://aws.amazon.com/relational-database/>

<https://aws.amazon.com/nosql/>

# Section 11

## **LESSON: Amazon Aurora Overview**

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Replication.html>

<https://docs.aws.amazon.com/AmazonRDS/latest/AuroraUserGuide/Aurora.Managing.Backups.html#Aurora.Managing.FaultTolerance>

## **LESSON: Create DynamoDB DAX Cluster and Test Cache**

<https://docs.aws.amazon.com/amazondynamodb/latest/developerguide/DAX.client.run-application.html>

## **LESSON: ElastiCache Overview**

<https://aws.amazon.com/elasticache/redis-vs-memcached/>

## **LESSON: RedShift Overview and Create Cluster**

<https://docs.aws.amazon.com/redshift/latest/mgmt/authorizing-redshift-service.html>

# Section 11

## Additional information

AWS links:

<https://aws.amazon.com/rds/features/>

<https://aws.amazon.com/rds/faqs/>

<https://aws.amazon.com/dynamodb/features/>

<https://aws.amazon.com/dynamodb/faqs/>

<https://aws.amazon.com/elasticache/redis/>

<https://aws.amazon.com/elasticache/memcached/>

<https://aws.amazon.com/elasticache/faqs/>

<https://aws.amazon.com/redshift/features/>

<https://aws.amazon.com/redshift/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/database/amazon-rds/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/database/amazon-dynamodb/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/database/amazon-elasticache/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/database/amazon-redshift/>

# Section 12

## **LESSON: Consume events in Lambda from a Kinesis Stream**

<https://docs.aws.amazon.com/lambda/latest/dg/with-kinesis-example.html>

### **Additional information**

AWS links:

<https://aws.amazon.com/emr/features/>

<https://aws.amazon.com/emr/faqs/>

<https://aws.amazon.com/kinesis/>

<https://aws.amazon.com/kinesis/data-streams/faqs/>

<https://aws.amazon.com/kinesis/data-firehose/faqs/>

<https://aws.amazon.com/kinesis/data-analytics/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/analytics/amazon-emr/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/analytics/amazon-kinesis/>

# Section 13

## **LESSON: AWS Step Functions**

<https://docs.aws.amazon.com/step-functions/latest/dg/sample-project-transfer-data-sqs.html>

## **LESSON: Simple Queue Service**

<https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-configure-lambda-function-trigger.html>

<https://docs.aws.amazon.com/lambda/latest/dg/getting-started-create-function.html>

<https://docs.aws.amazon.com/AWSSimpleQueueService/latest/SQSDeveloperGuide/sqs-subscribe-queue-sns-topic.html>

# Section 13

## Additional information

AWS links:

<https://aws.amazon.com/step-functions/features/>

<https://aws.amazon.com/step-functions/faqs/>

<https://aws.amazon.com/sns/features/>

<https://aws.amazon.com/sns/faqs/>

<https://aws.amazon.com/sqs/features/>

<https://aws.amazon.com/sqs/faqs/>

<https://aws.amazon.com/amazon-mq/features/>

<https://aws.amazon.com/amazon-mq/faqs/>

<https://aws.amazon.com/swf/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/application-integration/aws-step-functions/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/application-integration/amazon-sns/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/application-integration/amazon-sqs/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/application-integration/amazon-swf/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/application-integration/amazon-mq/>

# Section 14

## **LESSON: Create HA WordPress with Elastic Beanstalk and RDS**

<https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/php-hawordpress-tutorial.html>

### **Additional information**

AWS links:

<https://aws.amazon.com/cloudformation/features/>

<https://aws.amazon.com/cloudformation/faqs/>

<https://aws.amazon.com/elasticbeanstalk/details/>

<https://aws.amazon.com/elasticbeanstalk/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/management-tools/aws-cloudformation/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/compute/aws-elastic-beanstalk/>

# Section 15

## Additional information

AWS links:

<https://aws.amazon.com/cloudwatch/features/>

<https://aws.amazon.com/cloudwatch/faqs/>

<https://aws.amazon.com/cloudtrail/features/>

<https://aws.amazon.com/cloudtrail/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/management-tools/amazon-cloudwatch/>

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/management-tools/aws-cloudtrail/>



# Section 16

## **LESSON: CloudHSM**

<https://docs.aws.amazon.com/cloudhsm/latest/userguide/getting-started.html>

## **LESSON: AWS WAF and Shield**

<https://aws.amazon.com/answers/networking/aws-ddos-attack-mitigation/>

# Section 16

## Additional information

AWS links:

<https://aws.amazon.com/iam/features/>  
<https://aws.amazon.com/iam/faqs/>  
<https://aws.amazon.com/cognito/details/>  
<https://aws.amazon.com/cognito/faqs/>  
<https://aws.amazon.com/kms/features/>  
<https://aws.amazon.com/kms/faqs/>  
<https://aws.amazon.com/cloudhsm/features/>  
<https://aws.amazon.com/cloudhsm/faqs/>  
<https://aws.amazon.com/waf/features/>  
<https://aws.amazon.com/waf/faqs/>  
<https://aws.amazon.com/shield/features/>  
<https://aws.amazon.com/shield/faqs/>

Digital Cloud Training - Training Notes:

<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/security-identity-compliance/aws-iam/>  
<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/security-identity-compliance/aws-kms/>  
<https://digitalcloud.training/certification-training/aws-solutions-architect-associate/security-identity-compliance/aws-cloudhsm/>