Developing on AWS Resource Links

Module 1

What is Cloud Computinghttps://aws.amazon.com/what-is-cloud-computingHybrid Deploymentshttps://aws.amazon.com/enterprise/hybrid/AWS Regional Serviceshttp://aws.amazon.com/about-aws/global-infrastructure/regional-product-services/AWS Regions and Zoneshttp://docs.aws.amazon.com/AWSEC2/latest/UserGuide/using-regions-availability-zones.htmlAWS Global Infrastructurehttp://aws.amazon.com/about-aws/globalinfrastructure/AWS Global Infrastructurehttps://infrastructure.awsAWS Data Centershttps://aws.amazon.com/compliance/data-center/AWS Regionshttps://aws.amazon.com/about-aws/global-infrastructure/#reglink-prAWS Edge Locations - CloudFront as the CDNhttps://aws.amazon.com/cloudfront/features/Latency Checker Toolhttp://www.cloudping.info/EC2 Instance Typeshttp://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/instance-types.html
AWS Regional Services http://aws.amazon.com/about-aws/ global-infrastructure/regional-product-services/ http://docs.aws.amazon.com/AWSEC2/ latest/UserGuide/using-regions-availability-zones.html http://aws.amazon.com/about-aws/ globalinfrastructure/ AWS Global Infrastructure https://infrastructure.aws AWS Data Centers https://aws.amazon.com/compliance/data-center/ AWS Regions https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as the CDN Latency Checker Tool http://www.cloudping.info/ http://docs.aws.amazon.com/AWSEC2/
global-infrastructure/regional-product-services/ AWS Regions and Zones http://docs.aws.amazon.com/AWSEC2/ latest/UserGuide/using-regions-availability-zones.html AWS Global Infrastructure http://aws.amazon.com/about-aws/ globalinfrastructure/ AWS Global Infrastructure AWS Data Centers https://infrastructure.aws AWS Data Centers https://aws.amazon.com/compliance/data-center/ AWS Regions https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations — CloudFront as the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
AWS Regions and Zones http://docs.aws.amazon.com/AWSEC2/ latest/UserGuide/using-regions-availability-zones.html http://aws.amazon.com/about-aws/ globalinfrastructure/ AWS Global Infrastructure https://infrastructure.aws AWS Data Centers https://aws.amazon.com/compliance/data-center/ https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as the CDN Latency Checker Tool http://www.cloudping.info/ http://docs.aws.amazon.com/AWSEC2/
latest/UserGuide/using-regions-availability-zones.html AWS Global Infrastructure
AWS Global Infrastructure http://aws.amazon.com/about-aws/ globalinfrastructure/ AWS Global Infrastructure https://infrastructure.aws AWS Data Centers https://aws.amazon.com/compliance/data-center/ AWS Regions https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as https://aws.amazon.com/cloudfront/features/ the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
AWS Global Infrastructure https://infrastructure.aws AWS Data Centers https://aws.amazon.com/compliance/data-center/ AWS Regions https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
AWS Global Infrastructure https://infrastructure.aws AWS Data Centers https://aws.amazon.com/compliance/data-center/ AWS Regions https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as https://aws.amazon.com/cloudfront/features/ the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
AWS Data Centers https://aws.amazon.com/compliance/data-center/ https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
AWS Regions https://aws.amazon.com/about-aws/ global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as https://aws.amazon.com/cloudfront/features/ the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
global-infrastructure/#reglink-pr AWS Edge Locations – CloudFront as the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
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the CDN Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
Latency Checker Tool http://www.cloudping.info/ EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/
latest/WindowsGuide/instance-types.html
EC2 Instance Types http://docs.aws.amazon.com/AWSEC2/latest/
UserGuide/instance-types.html
EC2 Instance Types http://aws.amazon.com/ec2/instance-types/
Query API: AWS SDKs https://aws.amazon.com/tools/#SDKs
Query API: Application Load Balancer http://docs.aws.amazon.com/elasticloadbalancing/
latest/APIReference/Welcome.html
Query API: Classic Load Balancer http://docs.aws.amazon.com/elasticloadbalancing/
2012-06-01/APIReference/Welcome.html
Elastic Load Balancer https://aws.amazon.com/elasticloadbalancing/
EC2 Auto Scaling https://aws.amazon.com/autoscaling/
AWS Well-Architected Framework https://aws.amazon.com/architecture/well-
architected/?wa-lens-whitepapers.sort-
by=item.additionalFields.sortDate&wa-lens-
whitepapers.sort-order=desc

AWS CLI	http://aws.amazon.com/cli/
AWS Tools	https://aws.amazon.com/tools/

AWS Toolkit for Visual Code	https://aws.amazon.com/visualstudiocode/
AWS Toolkit for Visual Code	https://aws.amazon.com/about-aws/
	whats-new/2019/07/announcing-aws-
	toolkit-for-visual-studio-code/
AWS Toolkit for IntelliJ	https://aws.amazon.com/intellij/
AWS Toolkit for IntelliJ	https://aws.amazon.com/about-aws/
	whats-new/2019/03/the-aws-toolkit-
	for-intellij-is-now-generally-available/
CLI Reference	http://docs.aws.amazon.com/cli/latest/reference/
SDK Information for Python	https://boto3.readthedocs.org/en/
	latest/guide/quickstart.html
SDK Information for .NET	http://docs.aws.amazon.com/AWSSdkDocsNET/
	latest/V3/DeveloperGuide/net-dg-install-assemblies.html
SDK Information for .NET	http://docs.aws.amazon.com/AWSSdkDocsNET/
	latest/V3/DeveloperGuide/net-dg-start-new-project.html
SDK Information for Java	http://docs.aws.amazon.com/
	AWSSdkDocsJava/latest/DeveloperGuide/
	java-dg-install-sdk.html
SDK Information for Amplify	https://docs.amplify.aws/
SDK Information for Ruby	https://aws.amazon.com/sdk-for-ruby/
SDK Information for JavaScript in	https://aws.amazon.com/sdk-for-node-js/
Node.js	
SDK Information for Go	https://docs.aws.amazon.com/sdk-for-go/
	v1/developer-guide/welcome.html
SDK Information for JavaScript	https://docs.aws.amazon.com/
	AWSJavaScriptSDK/latest/
SDK Information for PHP	https://docs.aws.amazon.com/sdk-for-php/
	v3/developer-guide/welcome.html
SDK Information for C++	https://aws.amazon.com/sdk-for-cpp/
Boto3	http://boto3.readthedocs.org/en/latest/guide/resources.h
	tml
Boto3	http://boto3.readthedocs.org/en/latest/guide/clients.html
Region Retrieval from Metadata - Java	http://docs.aws.amazon.com/AWSSdkDocsJava/
	latest/DeveloperGuide/java-dg-region-selection.html
Region Retrieval from Metadata -	http://docs.aws.amazon.com/AWSSdkDocsNET/
.NET	latest/V3/DeveloperGuide/net-dg-config.html
Region Retrieval from Metadata –	http://boto3.readthedocs.org/en/latest/
Boto3	guide/quickstart.html#configuration
API Retries Configuration	http://docs.aws.amazon.com/amazondynamodb/latest/de
	veloperguide/ErrorHandling.html#APIRetries
Java Exceptions	http://docs.aws.amazon.com/AWSSdkDocsJava/latest/Dev
	eloperGuide/java-dg-exceptions.html
Interacting with AWS X-Ray SDK	https://github.com/aws?q=xray-sdk

AWS X-Ray API Actions	https://docs.aws.amazon.com/xray/latest/api/API_Operati
	ons.html
CloudTrail Supported Services	http://docs.aws.amazon.com/awscloudtrail/latest/usergui
	de/cloudtrail-supported-services.html
CloudTrail Events History	https://docs.aws.amazon.com/awscloudtrail/latest/usergui
	de/view-cloudtrail-events.html
AWS Amplify	https://docs.amplify.aws/
AWS Amplify (Workshop)	https://amplify-workshop.go-aws.com/

Services that Work with IAM	http://docs.aws.amazon.com/IAM/
	latest/UserGuide/reference_aws-
	services-that-work-with-iam.html
Allowed ARN Namespaces	http://docs.aws.amazon.com/general/
	latest/gr/aws-arns-and-namespaces.html
Permissions Supported by each	http://docs.aws.amazon.com/IAM
Service	/latest/UserGuide/Using_SpecificProducts.html
IAM Policies Evaluation Logic	http://docs.aws.amazon.com/IAM/latest/
	<u>UserGuide/AccessPolicyLanguage</u>
	<u>EvaluationLogic.html</u>
AWS Management Console	http://docs.aws.amazon.com/IAM/
	latest/UserGuide/console.html
IAM CLI Reference	http://docs.aws.amazon.com/cli/latest/
	userguide/cli-chap-welcome.html
Sign Requests with Credentials	http://docs.aws.amazon.com/
	general/latest/gr/
	signing_aws_api_requests.html
Security (Workshops)	https://awssecworkshops.com/workshops/

Module 4

EC2 Key Pairs	http://docs.aws.amazon.com/ AWSEC2/latest/
	UserGuide/ec2-key-pairs.html

Amazon S3	https://aws.amazon.com/s3/
Case Study: 6 Waves Limited	https://aws.amazon.com/
	solutions/case-studies/6waves/

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	after-write-consistency-automatically-for-all-applications/
New: S3 Replication Adds Support for Two-way Replication	https://aws.amazon.com/about-aws/whats- new/2020/12/amazon-s3-replication-adds-support-two- way-replication/

SQL vs NoSQL	https://en.wikipedia.org/wiki/NoSQL
SQL vs NoSQL	https://www.mongodb.com/nosql-explained
What is NoSQL	http://www.planetcassandra.org/what-is-nosql/
ACID	https://en.wikipedia.org/wiki/ACID
DynamoDB Data Model	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/HowItWorks.Partitions.html
Working with Tables	http://docs.aws.amazon.com/amazondynamodb/latest/
	developerguide/WorkingWithTables.html
Read and Write Consistency	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/HowItWorks.ReadConsistency.html
Request Service Quota Increases	https://aws.amazon.com/support
Service Quotas	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/Limits.html
DynamoDB Global Secondary Indexes	https://aws.amazon.com/about-aws/whats-
	new/2018/12/amazon-dynamodb-increases-the-
	number-of-global-secondary-indexes-and-projected-
	index-attributes-you-can-create-per-table/
DynamoDB Streams	http://docs.aws.amazon.com/amazondynamodb/latest/
	developerguide/Streams.html
Higher-Level Programming Interfaces	http://docs.aws.amazon.com/amazondynamodb/latest/
for DynamoDB	developerguide/ORM.html
Optimistic Locking with Version	http://docs.aws.amazon.com/amazondynamodb/latest/
Number (Java)	developerguide/JavaVersionSupportHLAPI.html
Optimistic Locking with Version	https://docs.aws.amazon.com/amazondynamodb/latest
Number (.NET)	/developerguide/DynamoDBContext.VersionSupport.ht
	ml
Creating a Table: DynamoDB's API	http://docs.aws.amazon.com/amazondynamodb/latest/
	APIReference/API_CreateTable.html
Creating an Item: DynamoDB's API	https://docs.aws.amazon.com/amazondynamodb/latest
(PutItem)	/APIReference/API_PutItem.html
Reading an Item: DynamoDB's API	http://docs.aws.amazon.com/amazondynamodb/latest/
(GetItem)	developerguide/WorkingWithItems.html#WorkingWithIt
	ems.ReadingData

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Reading an Item: DynamoDB's API	htttp://docs.aws.amazon.com/amazondynamodb/latest
(GetItem)	/APIReference/API_GetItem.html
Updating an Item: DynamoDB's API	https://docs.aws.amazon.com/amazondynamodb/latest
(UpdateItem)	/APIReference/API_UpdateItem.html
Deleting an Item: DynamoDB's API	http://docs.aws.amazon.com/amazondynamodb/latest/
(DeleteItem)	APIReference/API_DeleteItem.html
Querying a DynamoDB Table	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/Query.html
Querying a DynamoDB Table – API	http://docs.aws.amazon.com/amazondynamodb/latest/
Reference	APIReference/API_Query.html
Scanning a DynamoDB Table	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/Scan.html
DynamoDB Parallel Scan	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/Scan.html#Scan.ParallelScan
DynamoDB API Scan	http://docs.aws.amazon.com/amazondynamodb/
	latest/APIReference/API_Scan.html
DynamoDB Reserved Words	http://docs.aws.amazon.com/amazondynamodb/latest/
	developerguide/ReservedWords.html
DynamoDB Expressions	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/Expressions.ExpressionAttributeNames
	.html
DynamoDB Conditional Writes	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/Expressions.ConditionExpressions.html
DynamoDB – Limiting Amount of Data	https://docs.aws.amazon.com/amazondynamodb/latest
Returned	/developerguide/Query.html#Query.Limit
DynamoDB – Limiting Amount of Data	https://docs.aws.amazon.com/amazondynamodb/latest
Returned	/developerguide/Query.html#Query.Pagination
Batch Operations in DynamoDB	http://docs.aws.amazon.com/amazondynamodb/latest/
	developerguide/WorkingWithItems.html#WorkingWithIt
	ems.BatchOperations
Batch Operations in DynamoDB	http://docs.aws.amazon.com/amazondynamodb/latest/
(BatchGetItem)	APIReference/API_BatchGetItem.html
Batch Operations in DynamoDB	http://docs.aws.amazon.com/amazondynamodb/latest/
(BatchWriteItem)	APIReference/API BatchWriteItem.html
DynamoDB Local Secondary Indexes	https://docs.aws.amazon.com/amazondynamodb/latest
,	/developerguide/bp-indexes-general.html
DynamoDB Global Secondary Indexes	https://docs.aws.amazon.com/amazondynamodb/latest
•	/developerguide/bp-indexes-general.html
Troubleshooting in DynamoDB:	https://docs.aws.amazon.com/amazondynamodb/latest
Error Handling	/developerguide/Programming.Errors.html#APIError
Troubleshooting in DynamoDB:	http://docs.aws.amazon.com/amazondynamodb/latest/
Error Handling	developerguide/ErrorHandling.html
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Troubleshooting in DynamoDB:	http://docs.aws.amazon.com/amazondynamodb/latest/
Error Handling (Batch GetItem)	APIReference/API_BatchGetItem.html
Troubleshooting in DynamoDB:	http://docs.aws.amazon.com/amazondynamodb/latest/
Error Handling (Batch WriteItem)	APIReference/API_BatchWriteItem.html
Troubleshooting in DynamoDB:	http://docs.aws.amazon.com/amazondynamodb/latest/
Monitoring with CloudWatch	developerguide/MonitoringDynamoDB.html
Troubleshooting in DynamoDB:	http://docs.aws.amazon.com/amazondynamodb/latest/
Logging API Operations using CloudTrail	developerguide/logging-using-cloudtrail.html
CloudWatch Available Metrics for use	http://docs.aws.amazon.com/AmazonCloudWatch/lates
with DynamoDB	t/monitoring/dynamo-metricscollected.html
Searching with DynamoDB and	http://docs.aws.amazon.com/cloudsearch/latest/develo
CloudSearch	perguide/searching-dynamodb-data.html
From Zero to NoSQL Hero	https://www.youtube.com/watch?v=tDqLwzQEOmM
Video: DynamoDB Deep Dive	https://www.youtube.com/
	watch?v=VuKu23oZp9Q
Video: DynamoDB Streams	https://www.youtube.com/
	watch?v=yHSuK_k3dxU
Data Distribution and Partitions	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/HowItWorks.Partitions.html
Working with Tables	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/WorkingWithTables.html
PartiQL	https://docs.aws.amazon.com/amazondynamodb/latest
	/developerguide/ql-reference.html
DynamoDB Labs	https://amazon-dynamodb-labs.com/

AWS Serverless	https://aws.amazon.com/serverless/
AWS Lambda Functions	https://docs.aws.amazon.com/lambda/
	latest/dg/invoking-lambda-function.html
How AWS Lambda Works	https://docs.aws.amazon.com/lambda/
	latest/dg/current-supported-versions.html
AWS Toolkit for Eclipse	http://docs.aws.amazon.com/AWSToolkitEclipse/
	latest/GettingStartedGuide/lambda.html
AWS Toolkit for Visual Studio	https://blogs.aws.amazon.com/net/post/
	Tx381XNNQALP8BA/AWS-Lambda-
	Support-in-Visual-Studio
AWS Toolkit for Python	https://plugins.jetbrains.com/plugin/
	11349-aws-toolkit
AWS Lambda push event model	http://docs.aws.amazon.com/lambda/
	latest/dg/API_Invoke.html
AWS Lambda pull event model	http://docs.aws.amazon.com/lambda/
	latest/dg/API_CreateEventSourceMapping.html

AWS Lambda direct invocation	http://docs.aws.amazon.com/lambda/
AWC Landada Francisco Paradada	latest/dg/API_Invoke.html
AWS Lambda Execution Permissions	http://docs.aws.amazon.com/lambda/
	latest/dg/intro-permission-model.html
Specifying Permissions in a Policy	http://docs.aws.amazon.com/AmazonS3/
	latest/dev/using-with-s3-actions.html
Use of Roles: Delegation and Federation	http://docs.aws.amazon.com/IAM/latest/
	UserGuide/roles-toplevel.html
Invocation Permissions Model -	http://docs.aws.amazon.com/lambda
DynamoDB	/latest/dg/intro-permission-model.html
Invocation Permissions Model -	http://docs.aws.amazon.com/lambda/
DynamoDB	latest/dg/API_AddPermission.html
AWS Lambda Pricing	https://aws.amazon.com/lambda/pricing/
AWS Lambda: Function Scheduling	http://docs.aws.amazon.com
	/lambda/latest/dg/getting-started-
	scheduled-events.html
AWS Lambda Versioning	http://docs.aws.amazon.com/
	lambda/latest/dg/versioning-intro.html
AWS Lambda Aliases	http://docs.aws.amazon.com/
	lambda/latest/dg/aliases-intro.html
AWS Lambda Functions – Best Practices	https://docs.aws.amazon.com/
	lambda/latest/dg/limits.html
Video: AWS Lambda	https://www.youtube.com/watch?v=UFj27laTWQA
Video: Lambda and the Serverless Cloud	https://www.youtube.com/watch?v=pBLdMCksM3A
Video: Event-driven Code in the Cloud	https://www.youtube.com/watch?v=copO_JQQsBs
New: Lambda Supports up to 10 GB of	https://aws.amazon.com/about-aws/whats-
Memory and 6 vCPU cores	new/2020/12/aws-lambda-supports-10gb-memory-6-
·	vcpu-cores-lambda-functions/
New: Lambda changes duration billing	https://aws.amazon.com/about-aws/whats-
granularity from 100ms down to 1ms	new/2020/12/aws-lambda-changes-duration-billing-
	granularity-from-100ms-to-1ms/
New: Lambda now supports container	https://aws.amazon.com/about-aws/whats-
images as a packaging format	new/2020/12/aws-lambda-now-supports-container-
	images-as-a-packaging-format/
New: Lambda support for EFS now	https://aws.amazon.com/about-aws/whats-
generally available	new/2020/06/aws-lambda-support-for-amazon-elastic-
-	file-system-now-generally-/
Lambda Execution Context	https://docs.aws.amazon.com/lambda/latest/dg/best-
	practices.html
Cold Starts Mitigation Strategies	https://aws.amazon.com/blogs/compute/new-for-aws-
	IIIIps.//aws.aiiiazoii.com/biogs/compute/fiew-for-aws-
	lambda-predictable-start-up-times-with-provisioned- concurrency/

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API Gateway	https://docs.aws.amazon.com/
	apigateway/latest/developerguide/
	api-gateway-basic-concept.html
Video: API Gateway	https://www.youtube.com/watch?v=e9B-eIAirZ4
Video: API Gateway and Lambda	https://www.youtube.com/watch?v=ZBxWZ9bgd44
Integration	
AWS SAM – CloudFormation Extension	https://github.com/awslabs/
	serverless-application-model

Video: SQS and SNS	https://www.youtube.com/watch?v=UesxWuZMZqI
Standard Queues	http://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/SQSDeveloperGuide/
	standard-queues.html
FIFO Queues	http://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/SQSDeveloperGuide/FIFO-queues.html
Queuing Chain Pattern	http://en.clouddesignpattern.org/index.php/
	CDP:Queuing_Chain_Pattern
Message Attributes	http://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/SQSDeveloperGuide/
	SQSMessageAttributes.html#SQSMessage
	Attributes.DataTypes
SQS Extended Client Library	https://github.com/awslabs/amazon-
	sqs-java-extended-client-lib
SQS API Reference	http://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/APIReference/Welcome.html
SQS Developer's Guide	http://docs.aws.amazon.com/
	AWSSimpleQueueService
	/latest/SQSDeveloperGuide/AboutVT.html
SQS Queue Operations	http://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/APIReference/Welcome.html
SQS Dead Letter Queue	http://docs.aws.amazon.com/

	AW/CCimpleOverveComice/
	AWSSimpleQueueService/
	latest/SQSDeveloperGuide/
	SQSDeadLetterQueue.html
SQS Server-side Encryption	https://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/SQSDeveloperGuide/sqs-server-side-
	encryption.html#sqs-what-permissions-for-sse
SQS Throughput – Developer's Guide	http://docs.aws.amazon.com/
	AWSSimpleQueueService/
	latest/SQSDeveloperGuide/throughput.html
Sending SNS Messages to SQS Queues	http://docs.aws.amazon.com/sns/latest
	/dg/SendMessageToSQS.html#
	SendMessageToSQS.test
Raw Message Delivery	http://docs.aws.amazon.com/sns/latest/
,	dg/large-payload-raw-message.html
SNS Operations	http://docs.aws.amazon.com/sns/
'	latest/api/API_Operations.html
SNS: FAQs	https://aws.amazon.com/sns/faqs/
Amazon MQ	https://aws.amazon.com/blogs/compute/
	running-activemq-in-a-hybrid-cloud-
	environment-with-amazon-mg/
Amazon SNS, Amazon SQS, and	Amazon SNS client:
Amazon MQ-related API in the SDK for	http://docs.aws.amazon.com/
Java	AWSJavaSDK/latest/javadoc/
3474	com/amazonaws/
	services/sns/AmazonSNSClient.html
	Amazon SQS client: http://docs.aws.amazon.com/
	AWSJavaSDK/latest/Javadoc
	/com/amazonaws/
	services/sqs/AmazonSQSClient.html
	Amazon MQ Interface:
	http://docs.aws.amazon.com/
	AWSJavaSDK/latest/javadoc/
	, , , ,
	com/amazonaws/
Amazza CNC Amazza COC and	services/mq/AmazonMQClient.html
Amazon SNS, Amazon SQS, and	Amazon SNS client: http://docs.aws.amazon.com/
Amazon MQ-related API in the SDK for	sdkfornet/v3/apidocs/items/
.NET	SNS/TSNSClient.html
	Amazon SQS client: http://docs.aws.amazon.com/
	sdkfornet/v3/apidocs/items/
	SQS/TSQSClient.html
	Amazon MQ client: http://docs.aws.amazon.com/
	sdkfornet/v3/apidocs/items/

	MQ/TMQClient.html
Amazon SNS, Amazon SQS, and Amazon MQ-related API in the SDK for Python	 Amazon SNS client: http://boto3.readthedocs.org/ en/latest/reference/services/sns.html Amazon SQS client: http://boto3.readthedocs.org/ en/latest/reference/services/sqs.html Amazon MQ client: http://boto3.readthedocs.org/ /en/latest/reference/services/mq.html

Video: Step Functions	https://www.youtube.com/watch?v=75MRve4nv8s
Step Functions (Workshop)	https://step-functions-workshop.go-aws.com/
Step Functions	https://docs.aws.amazon.com/step-
	functions/latest/dg/input-output-example.html
Amazon States Language	https://states-language.net/spec.html
Serverless (Workshop)	https://image-processing.serverlessworkshops.io/
Amazon States Language	https://docs.aws.amazon.com/step-
	functions/latest/dg/concepts-states.html
Amazon States Language	https://github.com/awslabs/statelint
Use Case: Image Processing	https://github.com/aws-samples/lambda-refarch-
	imagerecognition
Use Case: Activity for Human	https://aws.amazon.com/blogs/compute/implementing-
Interaction	serverless-manual-approval-steps-in-aws-step-functions-
	and-amazon-api-gateway/

AWS ElastiCache	https://aws.amazon.com/blogs/aws/
	amazon-elasticache-distributed-in-memory-caching/
Video: ElastiCache Deep Dive	https://www.youtube.com/watch?v=_YYBdsuUq2M
Memcached vs Redis	https://docs.aws.amazon.com/
	AmazonElastiCache/latest/mem-ug/SelectEngine.html
Redis	http://redis.io/
AWS ElastiCache	http://docs.aws.amazon.com/
	Amazon Elasti Cache/latest/User Guide/
	Replication.Redis.Groups.html
Caching Strategies	https://docs.aws.amazon.com/AmazonElastiCache/latest/mem-
	ug/Strategies.html

Docker	https://docs.docker.com/get-started/#docker-concepts
History of Containerization	http://www.worldshipping.org/about-the-industry/history-
	of-containerization/the-birth-of-intermodalism
Video: ECS Deep Dive	https://www.youtube.com/watch?v=qbEPae8YNbs
Video: Docker on AWS	https://www.youtube.com/watch?v=NMhacj2n0gk
ECR for Docker	https://aws.amazon.com/blogs/compute/
	authenticating-amazon-ecr-repositories-
	for-docker-cli-with-credential-helper/
Dockerfile Best Practices	https://docs.docker.com/develop/develop-
	images/dockerfile_best-practices/#label
ECS (Workshop)	https://ecsworkshop.com
EKS (Workshop)	https://www.eksworkshop.com

Module 13

Security Operations on AWS	https://aws.amazon.com/training/course-
	descriptions/security-operations/
Sample IIS Authentication Proxy	http://aws.amazon.com/code/1288653099190193
Code	
Developer-Authenticated Identities	http://mobile.awsblog.com/post/
	Tx1YVAQ4NZKBWF5/Amazon-Cognito-
	Announcing-Developer-Authenticated-Identities
Developer-Authenticated Identities	https://docs.aws.amazon.com/cognito/latest/
	developerguide/amazon-cognito-user-pools-authentication-
	flow.html
Secrets Manager (Advanced	https://secrets-manager.awssecworkshops.com/
Workshop)	
Amazon Cognito (Workshop)	https://serverless-idm.awssecworkshops.com/

AWS CodeStar	https://aws.amazon.com/codestar/
AWS CodePipeline	https://aws.amazon.com/codepipeline/
AWS CodeCommit	https://aws.amazon.com/codecommit/
AWS CodeBuild	https://aws.amazon.com/codebuild/
AWS CodeDeploy	https://aws.amazon.com/codedeploy/
AWS X-Ray	https://aws.amazon.com/xray/

AWS CloudWatch	https://aws.amazon.com/cloudwatch/
Auto Scaling Instance Termination	http://docs.aws.amazon.com/AutoScaling/
	latest/DeveloperGuide/AutoScalingBehavior.Instance
	Termination.html.
Dev Cycle with AWS Elastic Beanstalk	http://docs.aws.amazon.com/elasticbeanstalk/
	latest/dg/eb-cli3-install.html
Initializing Local Development	http://docs.aws.amazon.com/elasticbeanstalk/
Environment with AWS Elastic	latest/dg/chapter-devenv.html
Beanstalk	
Customizing Default Environment for	http://docs.aws.amazon.com/
Linux Servers	elasticbeanstalk/latest/dg/
	customize-containers-ec2.html
Customizing Default Environment for	http://docs.aws.amazon.com/
Windows Servers	elasticbeanstalk/latest/dg/
	customize-containers-windows-ec2.html
AWS Elastic Beanstalk Namespace	http://docs.aws.amazon.com/elasticbeanstalk/
and Configuration Options	latest/dg/command-options.html
AWS Elastic Beanstalk Version	http://docs.aws.amazon.com/
Options	elasticbeanstalk/latest/dg/using-
	features.CNAMESwap.html

Other Resource Links

Brief History of AWS	https://techcrunch.com/2016/07/02/
	andy-jassys-brief-history-of-the-genesis-of-aws/
Video: Six Advantages of Cloud	https://www.youtube.com/
Computing	watch?v=yMJ75k9X5_8
Security Pillar of the Well-Architected	https://d1.awsstatic.com/whitepapers/
Framework	architecture/AWS-Security-Pillar.pdf
Reliability Pillar of the Well-	https://d1.awsstatic.com/whitepapers/
Architected Framework	architecture/AWS-Reliability-Pillar.pdf
Cost Optimization Pillar of the Well-	https://d1.awsstatic.com/whitepapers/
Architected Framework	architecture/AWS-Cost-Optimization-Pillar.pdf
Operational Excellence Pillar of the	https://d1.awsstatic.com/whitepapers/
Well-Architected Framework	architecture/AWS-Operational-Excellence-Pillar.pdf
Performance Efficiency Pillar of the	https://d1.awsstatic.com/whitepapers/
Well-Architected Framework	architecture/AWS-Performance-Efficiency-Pillar.pdf
Security Pillar of the Well-Architected	https://d1.awsstatic.com/whitepapers/
Framework	architecture/AWS-Security-Pillar.pdf
Developing Cloud Apps	http://www.opendatacenteralliance.org/
	docs/DevCloudCapApp.pdf

https://wblinks.com/notes/aws-tips-i-
wish-id-known-before-i-started/
http://www.theserverside.com/feature/
Developing-for-the-Cloud-How-Developing-
in-the-Cloud-is-Different
http://www.infoworld.com/article/2683270/
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development9-gotchas-to-know-before-you-jump-
in.html
http://java.awsblog.com/post/
Tx1XFRAN5OWJT6J/Introducing-the-
AWS-Resource-APIs-for-Java
https://java.awsblog.com/post/
Tx3GBOIEN1JJMQ5/Determining-an-
Application-s-Current-Region
http://boto3.readthedocs.org/en/
latest/guide/quickstart.html#configuration
http://aws.amazon.com/articles/3604
https://aws.amazon.com/training/
course-descriptions/security-operations/
http://docs.aws.amazon.com/AWSSdkDocsJava/
latest/DeveloperGuide/getting-started-signup.html
https://en.wikipedia.org/wiki/Byte_serving
http://www.coneural.org/
florian/papers/04_byteserving.php
http://shlomoswidler.com/2009/08
/amazon-s3-gotcha-using-virtual-host.html