

THINGS TO REVIEW

Thursday, July 23, 2020 8:52 PM

What is SNI? Was this the thing that allowed multiple subdomains?

Yes, server name indication,

ALB and NLB will do multiple SSL certs on one web server, CLB will not (sni)

Stream of data.. Aurora vs **dynamoDB** vs redshift?

Redshift is for BI, dynamodb is good for small rows (400kb max), streams of data.

Was there an advanced version of cognito for google logins?

Yes appsync, but for facebook networks and not auth, GraphQL specifically

What is dynamodb streams? Lol

DynamoDB streams to integrate with AWS Lambda

Review kinesis.. Good for ordered data? Thousands of messages per second, sensor data?

Kinesis Data Streams, yes good for sensor dat, alternative to SQS or SNS

io1 storage... bursts? Does iops cost stuff?

Gp2 is for burst, io2 is consistent iops, yes you can set iops rate within a range based on disk size.

Lambda max execution time? I think its like.. 15 mins or something.

Yes 15 mins.

RDS changes url and not cname right when primary goes down?

RDS changes cname to point at standby, so failover is automated.

Can you updated an ASG on the fly, or does a new launch config have to be made to change the AMI?

ASG launch config is immutable, so a new one needs to be changed

What is neptune? Maybe its like the fb thing?

Yes Fully managed graph database, good for social networks (but FB specific GraphQL is appsync)

Create OAI and update S3 bucket policy is the way for s3 bucket access through cloudfront, right?

Right.

Does ALB allow for whitelisting of IPs?

It does but must use header.. NLB forwards the ip directly so easier.



Attempt 1: **Passed!** (72% required to pass)

86% correct (56/65)

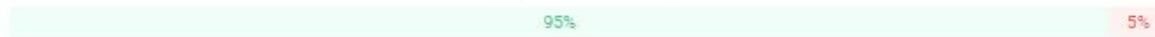
1 hour
July 23, 2020 8:50 PM

[Review questions](#)

Correct Wrong Skipped

Knowledge areas

Design High-Performing Architectures (22 questions)



Design Secure Applications and Architectures (15 questions)



Design Cost-Optimized Architectures (9 questions)



Design Resilient Architectures (19 questions)



Does SQS have group id?

Yes if you want multiple consumers

Review private link, can it substitute vpc peering? Is it cheaper?

Private link provides private connectivity between VPCs, AWS Services, and on-prem apps for security.

VPC shared with RAM is better for private ec2s talking to each other.

POSIX compliance.. Which kind of file system?

Linux..

Bastion host.. Is NLB w/ ASG or EIP w/ASG better?

Apparently Eip isnt enough, even with ALB. May need route 53 or something.

OLTP with spikes, is aurora serverless or DynamoDB with on-demand capacity better?

DynamoDB doesn't do OLTP since its nosql

Elastic Fabric Adapter.. What was that again?

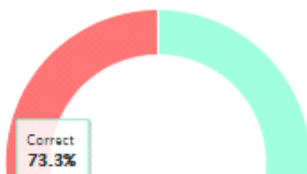
EFA is for HPC that need high levels of inter-instance communications

Private link.. What was the benefit of that again?

Eliminates talking over public network between vpcs, aws services, on prem apps.

Can cloudwatch events react to object uploads in s3 and invoke ec2 instances to run scripts?

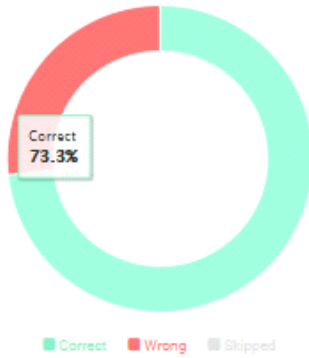
Cloudwatch events cannot invoke apps on EC2 instances.



Attempt 1: **Passed!** (72% required to pass)

73% correct (22/30)

19 minutes
July 24, 2020 4:00 PM



Attempt 1: **Passed!** (72% required to pass) ^

73% correct (22/30)

19 minutes
July 24, 2020 4:08 PM

[Review questions](#)

Knowledge areas

Design Cost-Optimized Architectures (8 questions)



Design Secure Applications and Architectures (9 questions)



Design High-Performing Architectures (8 questions)



Design Resilient Architectures (5 questions)



Correct Wrong Skipped

ELB = CLB

How much can a snowball hold.. 10tb?

No 80TB.

ASG scheduled action is a thing right?

yes

Suspended once enabled.. S3? What?

SQS batch mode for FIFO? What's peak rate for SQS for FIFO?

3000 peak, 300 without batch.

Are API gateway apis stateful or stateless?? I think stateless.

Yes api is stateless. Websocket api is stateful

SQS vs kinesis.. Hmmmm streams.. Hmmmm? Difference?

Kinesis isn't fully automatically scaled, serverless

Can you go from one zone ia -> s3 standard ia? S3 ia -> s3 intel tiering?

No, yes. Refer to tiering diagram below.

Elasticache for redis vs memcached? Which one is relational?

Redis is. Memcached is only in memory, no replication and archival support.

Spread placement group for EC2... how many AZs?

Max 7 instances per AZ.

ALB has something called.. Path or query string parameter based routing? I think its path..

It actually has host, path, http header, http method, query string, and source ip address CIDR routing.

ASG target tracking, simple, vs step scaling policies?

Target tracking can do CPU and also automatically make the CW alarms. Simple and step require manual CW alarms and cannot do CPU

RDS DB upgrade, does it cause downtime and does standby or primary go first?

downtime

ASG wait state.. Is that a scheduled action or lifecycle hook?

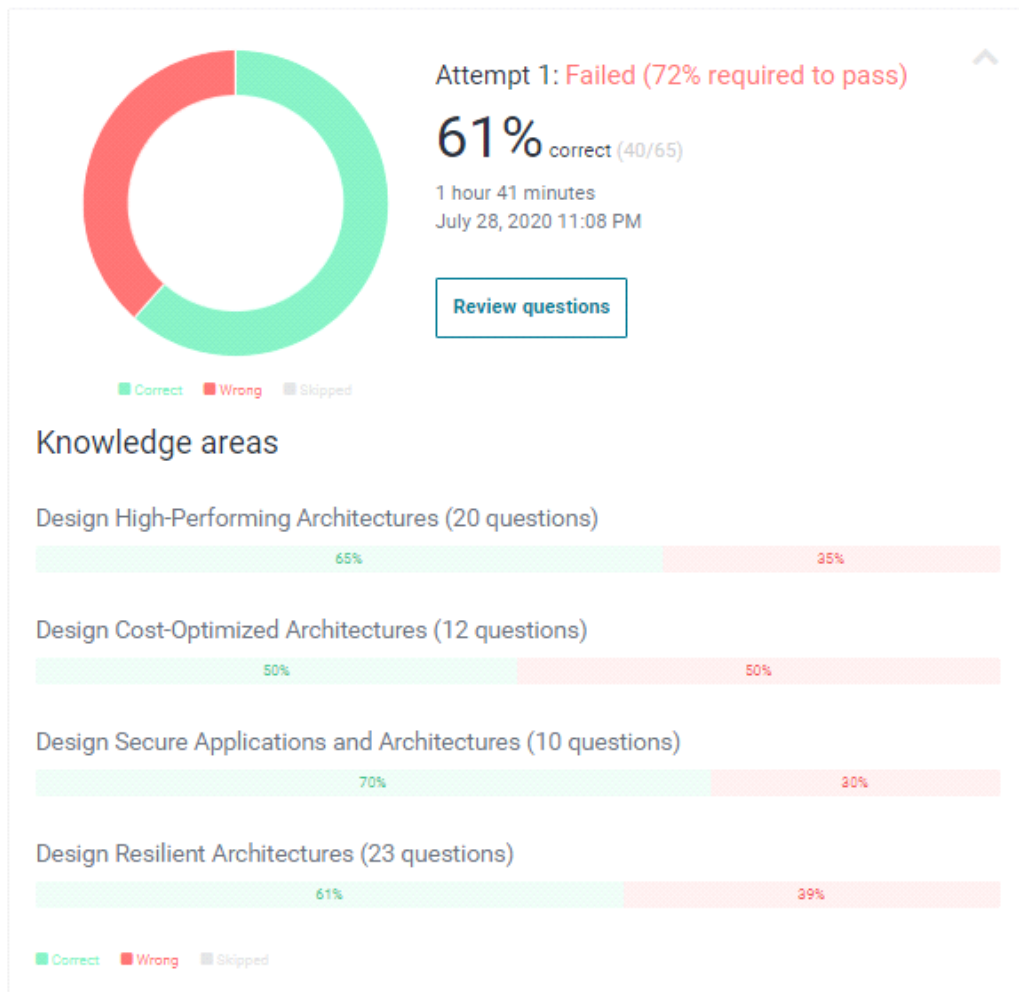
Lifecycle hook

S3 transfer accelerator, what is that? Does it cost money?

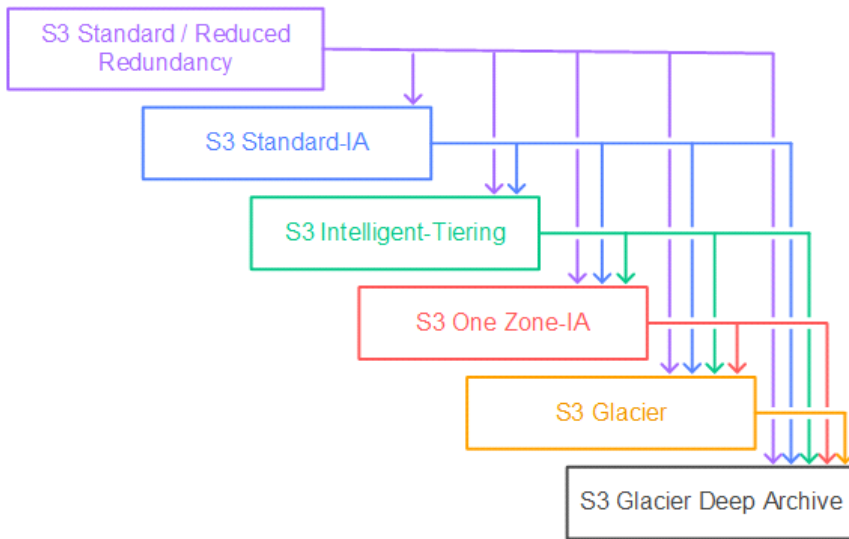
- Accelerates transfers, yes only if it actually accelerates
- How to EFS cross region?
 - Vpc peering
- Aurora read replica tiering, what? Who gets promoted?
 - RDS promotes lowest tier then largest size first
- AWS Lambda programming language support...
 - High tier languages, C++, php, and R are not supported. Go is though?
- Does ALG terminate unhealthy then launch new or vice versa or simultaneous?
 - First terminate then launch new for unhealthy
- Can ST1 or SC1 drives be used as boot volumes?
 - No. but instance stores can.
- Can you assume IAM role from another account?
 - yes
- Can AWS recover CMK key deleted from KMS?
 - Apparently yes for 7-31 days during pending deletion

Practice Test #1 - AWS Certified Solutions Architect Associate - Results

65 questions | 2 hours 10 minutes | 72% correct required to pass



Lifecycle transitions:



What is EMR?

Elastic MapReduce is a big data platform for spark hive hbase, flink, hudi and presto using hadoop

Review long polling SQS

Wait for messages when none are here

Glue ETL can compress formats in S3?

yes

S3-website names

The two formats for s3 website endpoints is bucket-name.s3-website-Region.amazonaws.com and the same thing but s3-website.Region

S3 event notification, can use fifo?

No, fifo cannot use s3 event notification but standard can

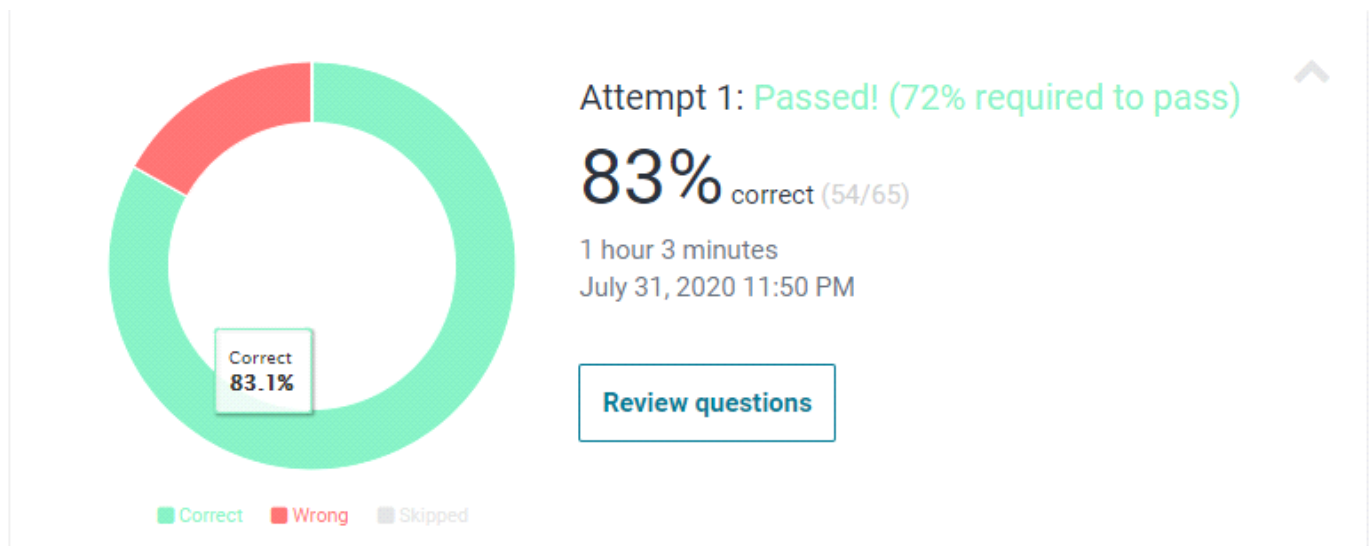
Can kinesis agent write straight to kinesis firehose?

Yes but not when it is setup for something else already

Kinesis agent cannot write to kinesis firehose for which the data stream source is already set as kinesis data streams.

Can we setup a cloudwatch event without alarm?

Yes we can



A record or CNAME for domain level redirect?

A RECORD - domain AND free to aws resources

Is vpn cloudhub a thing?

Yes - remote sites to communicate with each other

Glacier vault is a thing right? With vault lock policies?

Yes - with policies to enforce compliance controls

Can we do udp with cloudfront?

No but global accelerator can

Nat instance vs nat gateway.. Which one can support port forwarding, which one can have associated SGs?

NAT instance does port forward and SGs and bastions.

Which scaling policy works with custom SQS queue metrics?

Target tracking works best, step and simple will work but not well for spikes.

Are SQS delay queues a thing?

yes

Host tenancy?

Yeah so dedicated and dedicated host (more specifi).

Enhanced fanout?

Yes improves performance for kinesis data streams

Inbound vs outbound resolver and universal endpoint for route 53?

Inbound and outbound, no universal

Cross-AZ load balancing.. What?

Yeah you got it right, it will balance based on AZ instead of instances within AZ

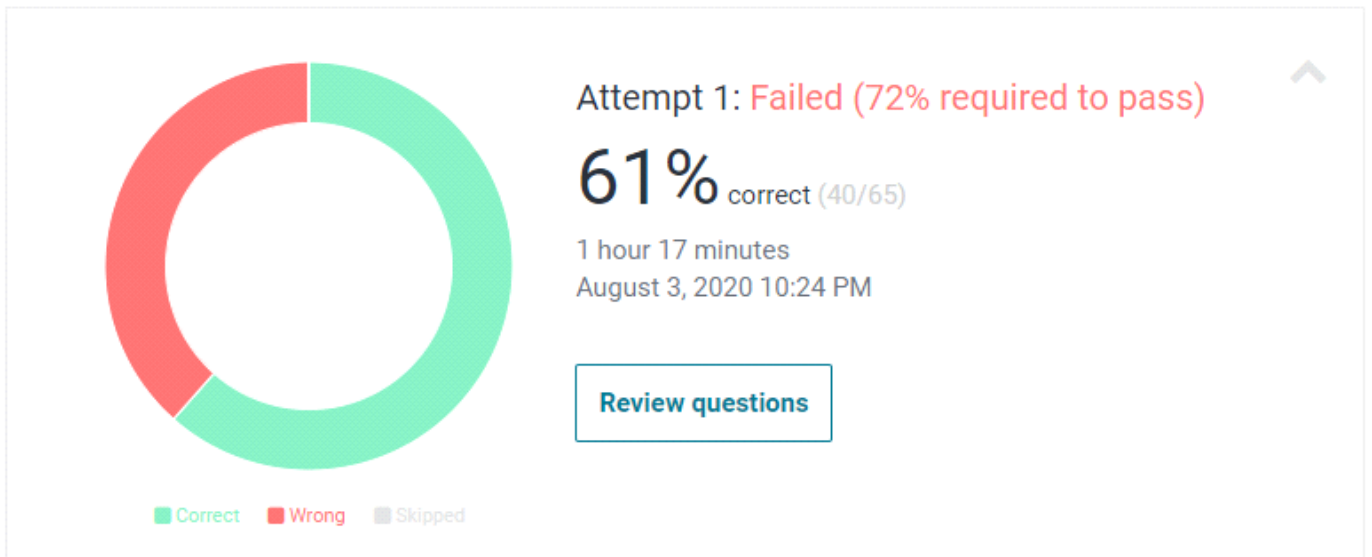
VPC peering vs VPC sharing.. Hmm

Sharing is the one, but it does subnets not VPCs lol

Cloudformation.. Stacks or stacksets?

Stacksets allow you to deploy same templates across aws accounts and regions

Stacks cannot do across accts and regions.



What was the thing that provided 2 public ip addresses, NLB right?

Yes two public static ips

Vpc endpoint service?

Yes it uses AWS PrivateLink to grant permissions to specific services in private vpc subnets.

Does direct connect reach back to your on-prem servers with ip based targets?

Yes, vpn or direct connect will work

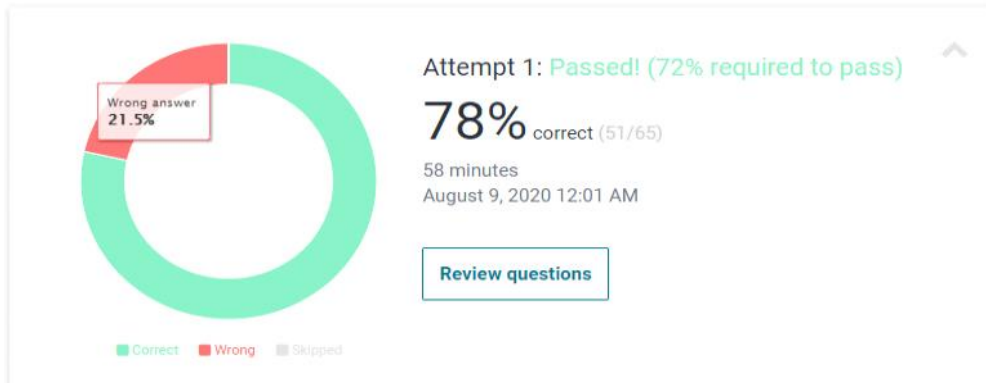
Can kinesis streams process in order?

yes

What is fargate?

Container service, runs constantly even when no requests are being made, but serverless to launch containers.





Can a nat gateway do ipv6?

No ipv4 only. Egress only internet gateway will do ipv6

Can asg be deployed cross region?

No it cannot

Can you put elasticache in front of redshift?

Yes you can

Does dynamodb have read replicas?

no

Can cloudfront OAI be used for ELBs?

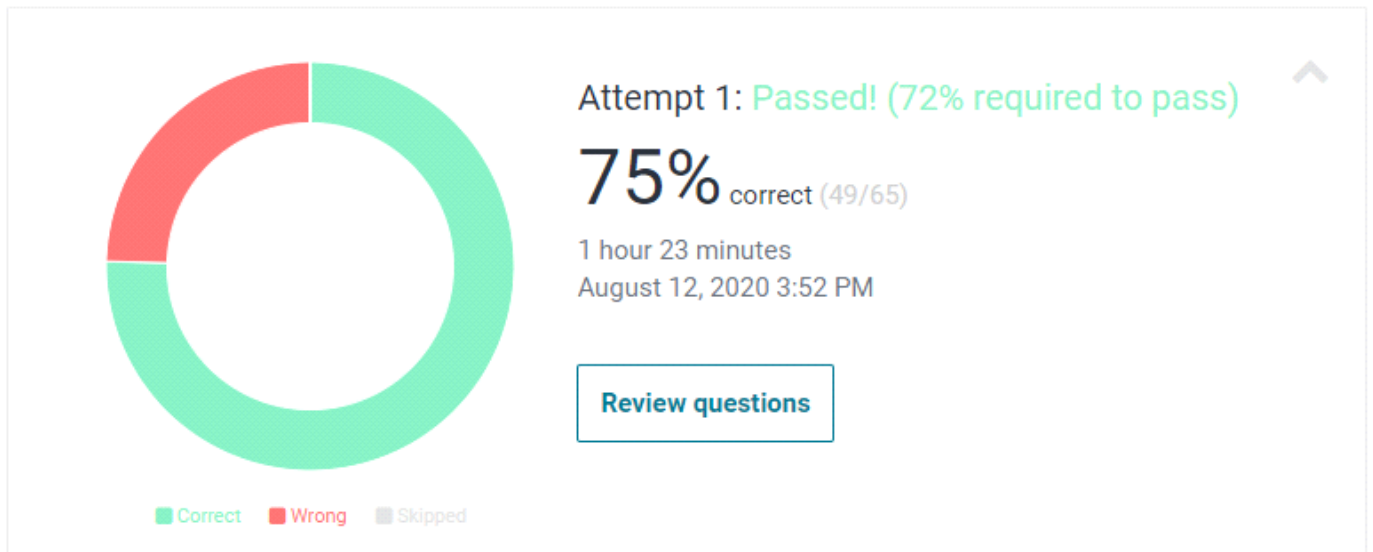
Yes but it doesn't restrict content, only in s3, not for ec2 or elb

ECS task definitions for individual containers?

1 iam role per task definition.

Cloudfront vs global accelerator again? Difference?

Global accelerator uses aws global network, private not public.



Are Lambda environment variables encrypted by default?

no

Kinesis shard limits, how to go above limit or increase capacity per consumer?

Yeah increase number of shards

Do nat gateways have constraints on bandwidth?

Yes 45 gbps

Can EFS work with s3?

No but lustre can.

Aws organizations api is a thing right?

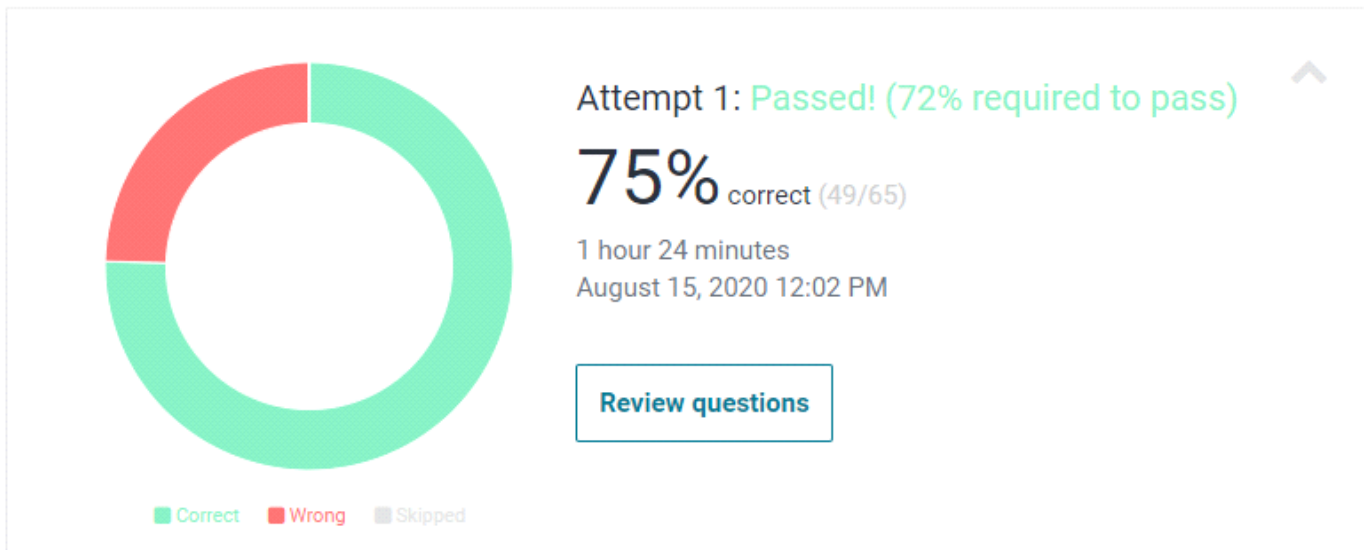
yes

S3.. Is versioning required for cross-region replication? I think so..

yes

Max iops for ssd gp2? Over 3000?

Yes, 16000



Configs vs launch templates? Damn...

Templates have parameters, configs are used with ASG. Templates also support on-demand and spot mix.

Advantages of nat gateways over nat instances..

They are apparently highly available within AZ.. And managed for you by aws duh

Apex record? What?

Just top level domain is what it means

Does ELB have access logs? I think so..

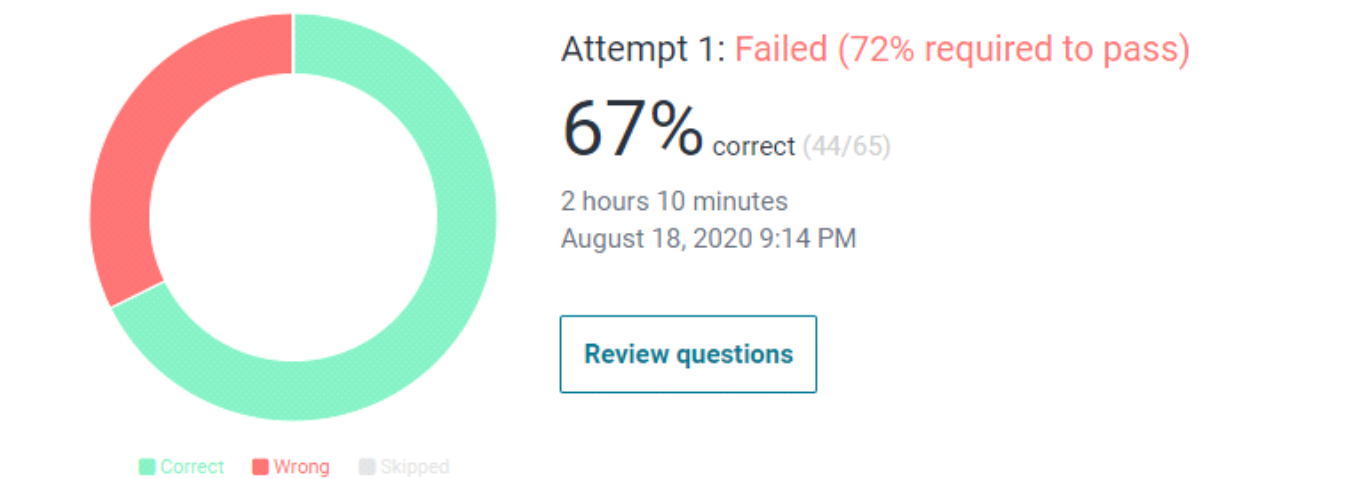
Yes, EMR to analyze

Elastic transcoder?

Converts media formats

Direct access to IAM web service using HTTPS?

Yes with query api



Stage or method for api to cache?

Stage

Change set for cloud formation?

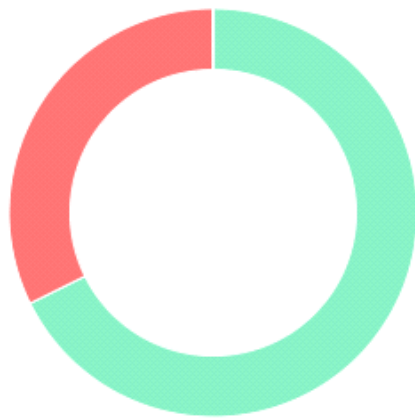
Yep, or direct update. Change set allows for change management

Can efs burst?

Yes it can

Iam groups?

Can't be used as a principal in IAM policy.



Attempt 1: **Failed** (72% required to pass)

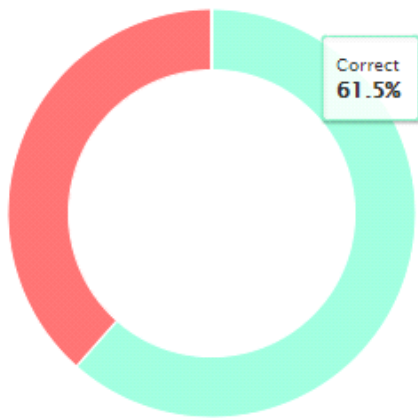
67% correct (44/65)

1 hour 34 minutes
August 21, 2020 8:38 PM

[Review questions](#)

■ Correct
 ■ Wrong
 ■ Skipped

- Is there bulk retrieval?
yes
- Can lambda listen on ports?
no
- Elastic bean stalk, what can't you do?
Create vpc, but you can update and create new environments and swap them for green/blue deployment
- Does ACL match first rule or do all rules?
first
- Lambda can access internet by default, right? Maybe not..
Yes it can
- Catchup for primary/standby RDS? What?
Yeah if standby cant catch up you will have impact to transactions
- Custom cloudwatch logs?
Yessir.



Attempt 1: **Failed** (72% required to pass)

61% correct (40/65)

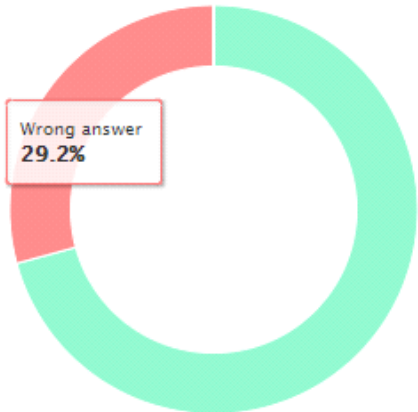
55 minutes
August 29, 2020 5:25 PM

[Review questions](#)

■ Correct
 ■ Wrong
 ■ Skipped

- What dynamoDB capacity units? Ugh.
1 read = 1 strong or 2 eventually consistent reads per second up to 4kb in chunk. 1 write is 1 per second for 1kb chunks.
- Are spot instances pro-rated for charge or min 1 hr.
If terminated in first hour its free
- Can user data be queried from inside instance?
Use the metadata server.. **169.254. 169.254**
- Does SNS retry?

- No use fanout
- Old rds version?
 - Will be upgraded upon restore
- TTL for dynamodb?
 - Yes it expires old items
- Content invalidation capability with cloudfront?
 - Yes you can use it to remove content



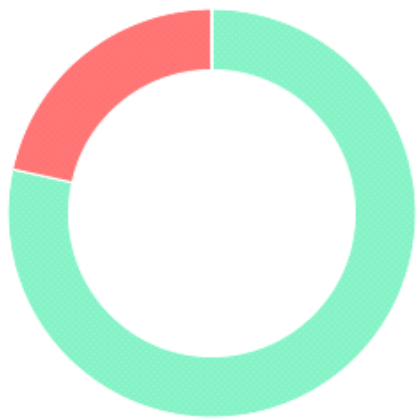
Attempt 1: **Failed** (72% required to pass)

70% correct (46/65)

1 hour 29 minutes
September 1, 2020 9:35 PM

[Review questions](#)

- AWS IOT Core to send stuff to cloud from iot devices?
 - yes
- How to auto scale dynamoDB? AS?
 - yes
- How to do security for EFS?
 - Posix or EFS SG
- Default network acl?
 - Default has allow all, custom has deny all
- Vpc flow logs.. Do they target subnets or network interfaces?
 - Both but do the specific one



Attempt 1: **Passed!** (72% required to pass)

78% correct (51/65)

1 hour 42 minutes
September 2, 2020 10:28 PM

[Review questions](#)

■ Correct
 ■ Wrong
 ■ Skipped