

Australia Global Skills Competition Details Day 1

Team: db4d4c7f80ea4f099d175c47c89f6ee5 <--> Game: [c9841b4123074cbfb0eff41b04249f52](#)

Team ID	Total Requests	Successful	Failed	Avg. Latency	Refunds Processed	Availability	Fastest Response	Cost Ratio
db4d4c7f80ea4f099d175c47c89f6ee5	442037	341001	100663	0.625s	12	77.14309%	0.0102s	1.823176

Questions Day 1

How did you deploy the PostgreSQL server? Was it centralized, highly available, and what AWS Services did you use to accomplish this?

What was your approach to handling the refund requests? Was it automated and if so, how?

Section A

A1-M1: Successes

If value is greater than 500, full marks

Successful Requests: 341001

A1-M2: Is the primary database centrally located?

Results based upon response to the infrastructure design question asked to the competitor.
Experts should confirm the deployment model by logging into competitor AWS accounts.

Yes/No (full marks or no marks)

Section B

B1-M1: Successful Endpoints

If this list contains a DNS entry as opposed to just IP, full marks.

http://unicornrential-1778235413.us-west-2.elb.amazonaws.com/

http://54.202.42.32:8080/

http://d24a6ua6c60n3t.cloudfront.net/

http://54.187.11.236:8080/

B1-M2: Multiple Subnets

Look through the competitor account to ensure that instances running the HTTP endpoint infrastructure are being run across multiple subnets.

Yes/No Answer (full marks or no marks)

Section C

C1-J1: Limited operational impact to system/network outage.

- Log into competitor AWS accounts for verification
- 0 - Neither all instance scaling or high-level services are deployed in a multi-AZ configuration
 - 1 - Either all higher level services or instance scaling is spread across multi-AZ and subnets
 - 2 - Acceptable and meets industry standard - ELB, EC2, data storage
 - 3 - All services span multiple availability zones and subnets, HTTP Caching multi AZ

C1-M1: Network Timeouts

< 10% receives full marks; < 20% receives half marks; < 30% receives quarter marks

111 (0.03%)

Section D

D1-M1: Result V2 Successes

Full marks for > 50% of version 2 requests handled
Half marks for any successful version 2 requests handled.

322340

D1-J1: Ability to work off of documentation and requirements provided

- 0 - Worked outside of assigned region, used resources not permitted, other rule violations
(Check player account and computing resources to ensure t2.micro)
- 1 - Short term violation of resources or location rules. (forgot protocol for endpoints)
- 2 - Meets industry standard and exceeds in some respects (team name defined properly)
- 3 - Worked through all rules provided. (no known issues)

D1-M2: Database solution deployed according to instructions.

- Database deployment adheres to provided resource constraints, is centrally located, is highly available.
 - Half points for just using a centrally located database.
- Notes: Log into player account and check for use of RDS but also utilize player feedback to find out if they used a more complex solution like multi-master manually implemented replication.

Section E

E1-M1: Overall Cost Ratio

Half marks for only < 1.7/1 & > 0.5/1
Quarter marks for < 1.8/1 & > 0.5/1
One eight marks (0.27 marks) for < 2.2/1 & > 0.3/1

1.823176

E1-M2: Successful Endpoints

If this list contains a cloudfront endpoint, full marks.

<http://unicornrential-1778235413.us-west-2.elb.amazonaws.com/>

http://54.202.42.22:8080/

http://d24a6ua6c60n3t.cloudfront.net/

http://54.187.11.236:8080/

E1-M3: Lowest Latency

< 100ms = full marks

< 500ms = half marks

0.0102s

Section F

F1-J1: Automation of application deployment process

- 1 There is minimal process automation in place with ASG but manual scaling.
- 2 Majority of processes are automated, ASG with automated scaling metrics
- 3 Full solutions deployments are automated with PostgreSQL solution and automated refunds.

F1-M1: Resource templates in use

Does the deployment use resource templates?
Notes: this can include launch template, launch config, cloudformation templates, teraform template, etc...
- Look through player account for confirmation.

Yes/No (full marks or no marks)

F1-M2: Availability Percentage

If over 95% = 1 mark, less than 95% = 0.005 marks per-percentage point

77.14309%

F1-M3: Availability Percentage

If over 85% = 1 mark, less than 85% = 0.005 marks per-percentage point

77.14309%

F1-M4: Refunds Processed

> 80% full marks, > 30% 0.005 * percentage sent

12 / 20

Section G

G1-J1: Identified infrastructure scales to meet demand.

- 0 No infrastructure designed for scaling
- 1 Infrastructure scalability configured but does not meet demand.
 - E.g. manually scaling an ASG.
- 2 Data processing infrastructure scales to meet demand automatically.
 - E.g. ASG with scaling policy functional.
- 3 Data processing and storage scales to meet demand automatically.
 - E.g. ASG with scaling policies functional and PostgreSQL scaling in place.

G1-M1: Data storage solutions are centralized.

Is the database solution read-scalable?

Half marks for having a centralized solution

Full Marks for a read-scalable solution.
Half marks if there is just a centralized solution.
No marks if database is deployed independently on each instance.

G1-M2: Average Latency

If less than 2 seconds = 1 mark, greater than 2 seconds = 0 marks

0.625s

G1-M3: Messages Accepted

If over 80% = 1 mark, 0.5 marks for greater than 70%, less than 70% = 0 marks

441926 (99.97%)

Section H

H1-J1: Restricts traffic to only needed addresses, networks, ports and protocols

0 Not presented or does not meet industry standard

1 Data storage solutions meet minimum network security requirements as outlined.

2 All services meet minimum network security requirements as outlined.

3 Meets industry standards and exceeds what is outlined

Examples to include:

- Database storage access ACLs and Security Groups
- Instance and network ACL/SG
- Application config storage security (server.ini)
- Least privileges network access
- Database should not be publicly-addressable

Section I

I1-M1: Refunds Processed

If over 90% = 1 mark, less than 90% = 0 marks

12 / 20

I1-M2: Overall Cost/Instances Ratio Per-Hour

If over 90% = 1 mark, less than 80% = 0 marks

28.57%