Sprint 2

Task 239: Research Azure Dev-Ops for sprint planning

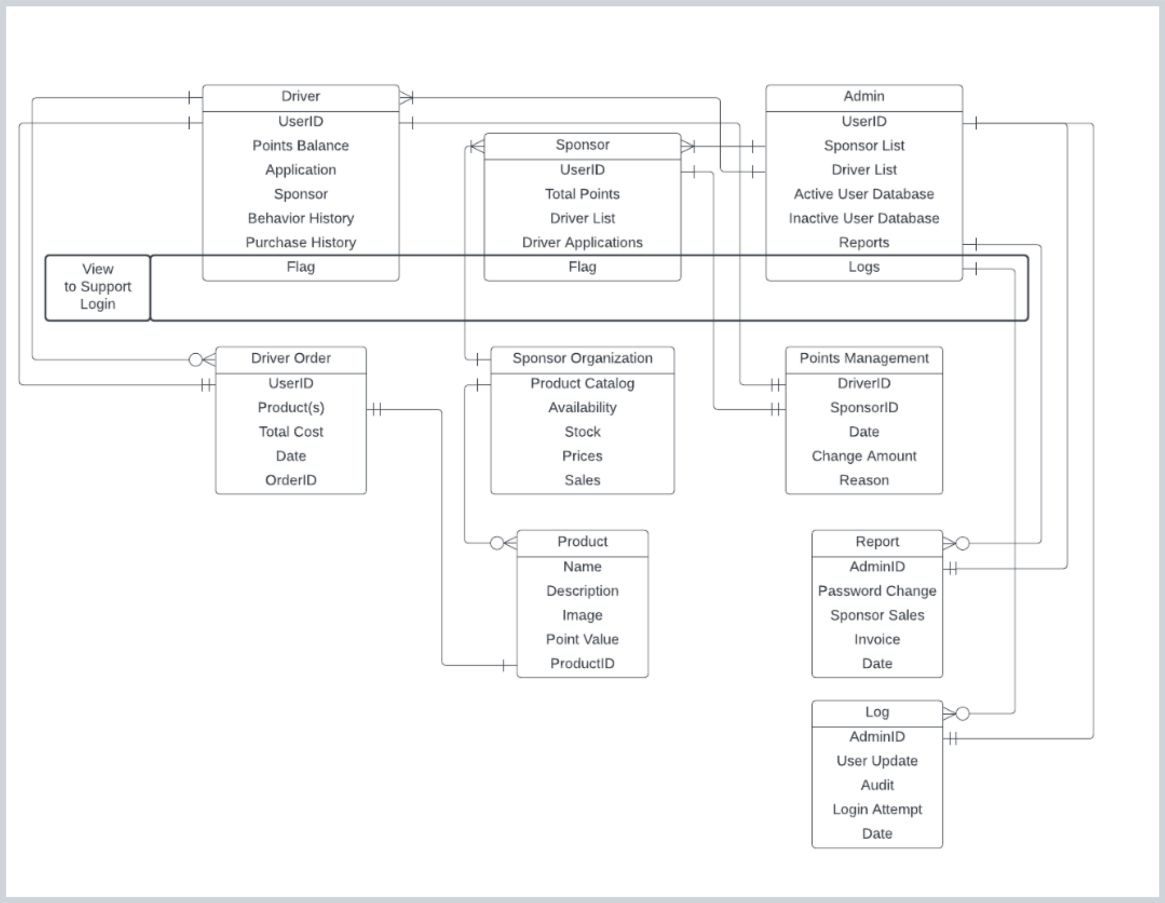
- I have planned the sprints for the past 2 weeks so I am familiar with this technology.

Task 241: Research Azure Config Control

- https://learn.microsoft.com/en-us/mem/configmgr/core/understand/configuration-manager-on-azure
- https://learn.microsoft.com/en-us/mem/configmgr/core/understand/configuration-manager-on-azure

Task 114: Design a relational database

- Our team decided on the following database schema:



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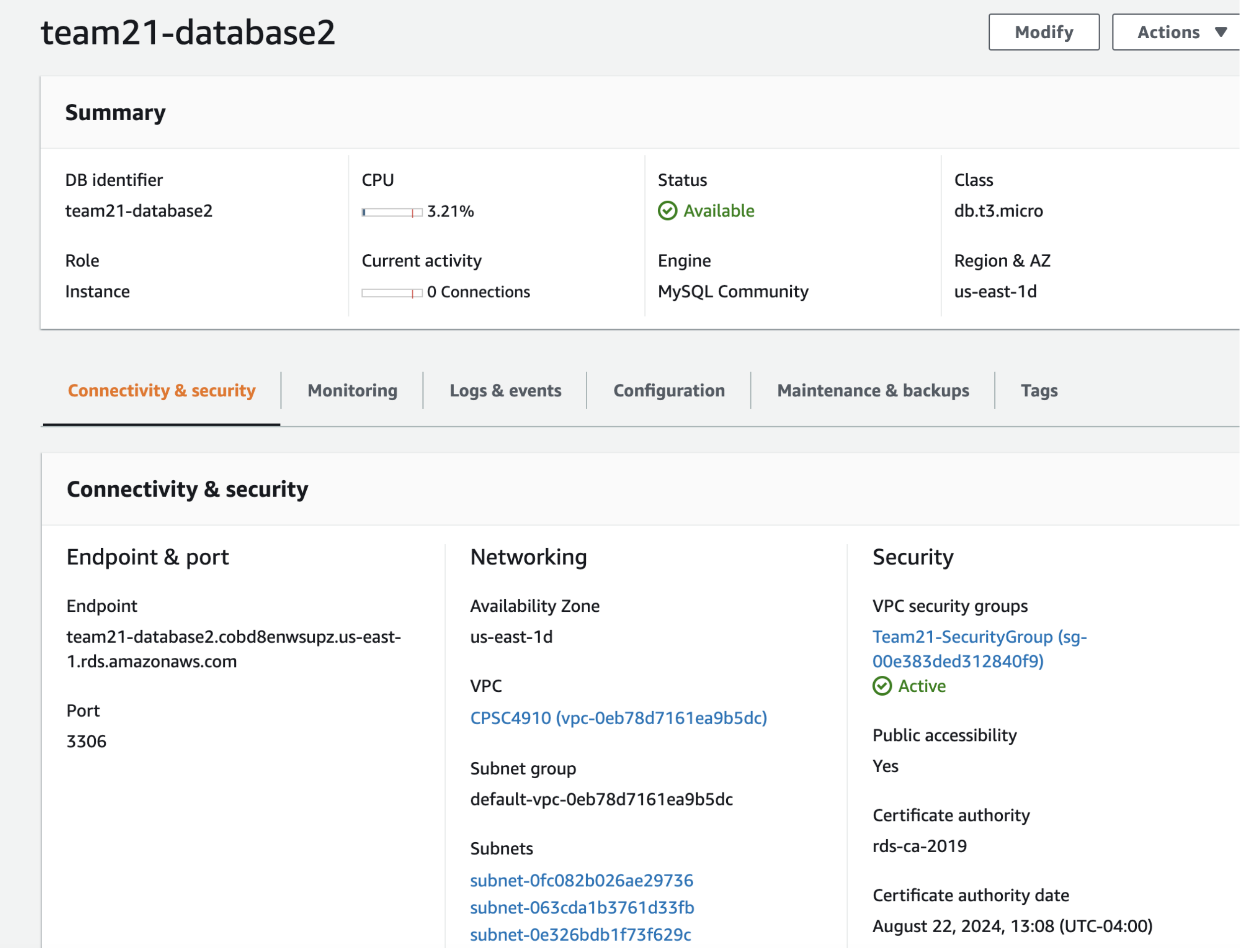
Task 242: Research SQL databases (MySQL)

- https://aws.amazon.com/free/database/?trk=83add82a-8e52-4837-bc73-c323da62d78c&sc_channel=ps&s_kwcid=AL!4422!3!610171867199!e!!g!!aws%20sql%20database&ef_id=CjwKCAjwm8WZBhBUEiwA178UnKZZRdQB2CWHSdovWo7cNwI4eOKWLib07vwn1k5JvAEK_trwyv4W1xoCtCgQAvD_BwE:G:s&s_kwcid=AL!4422!3!610171867199!e!!g!!aws%20sql%20database

- https://www.hostinger.com/tutorials/what-is-mysql#:~:text=MySQL%20creates%20a%20database%20for,appear%20on%20the%20clients'%20side.

Task 60: As a developer, I must set up a Database Management System (MySQL)



team21-database2

Summary

DB identifier: team21-database2
CPU: 3.21%
Status: Available
Class: db.t3.micro
Role: Instance
Current activity: 0 Connections
Engine: MySQL Community
Region & AZ: us-east-1d

Connectivity & security

Endpoint & port
Endpoint: team21-database2.cobd8enwsupz.us-east-1.rds.amazonaws.com
Port: 3306

Networking
Availability Zone: us-east-1d
VPC: CPSC4910 (vpc-0eb78d7161ea9b5dc)
Subnet group: default-vpc-0eb78d7161ea9b5dc
Subnets: subnet-0fc082b026ae29736, subnet-063cda1b3761d33fb, subnet-0e326bdb1f73f629c

Security
VPC security groups: Team21-SecurityGroup (sg-00e383ded312840f9) Active
Public accessibility: Yes
Certificate authority: rds-ca-2019
Certificate authority date: August 22, 2024, 13:08 (UTC-04:00)

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Task 76: Research Node.js

- https://www.w3schools.com/nodejs/nodejs_intro.asp
- https://learn.microsoft.com/en-us/sql/connect/node-js/step-3-proof-of-concept-connecting-to-sql-using-node-js?view=sql-server-ver16
- https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/create-deploy-nodejs.rds.html

Task 300: Connect Database to application

- Set up an EC2 server for our application
- https://docs.aws.amazon.com/opsworks/latest/userguide/customizing-rds-connect-create.html

Task 309: Decide on an AWS database to use

- I decided on MySQL from the walkthrough that we had in class, and utilized the following steps to create it:

1. Create a managed database service by using an RDS instance.
2. MySQL as the engine, keep the default current version
3. Free tier template
4. Name "Team21-database"
5. Credentials: auto generate a password to create the master password for the database server. Master username "admin"
6. Db.t3.micro
7. SSD gp2 20gb, enable autoscaling
8. Connect to an ec2 compute resource
9. Stay in 4910 vpc
10. Public access = yes (allocates a public IP address)
11. Create a security group for it… create new "team21-security"
12. AZ no preference
13. Database port 3306, keep as default
14. Password and IAM database authentication
15. Enable enhanced monitoring?
16. DB parameter group
17. Enable automated backups, keep as default
18. Slow query log, turn all logs on
19. Enable deletion protection- while this is enabled you cannot delete the database
20. Create!

- Get access to credentials "view credential details" on blue banner and keep those because once you close the blue banner you can no longer see the password to your database!
- Security group -> Edit inbound rules -> add rule
    - Put in everyone's individual IP addresses or MySQL/Aurora TCP 3306, anywhere 0.0.0.0/0
    - Add a rule that is specific to the web server custom -> ec2 instance security group