Cloud computing

Assignment 5 - Bonus task

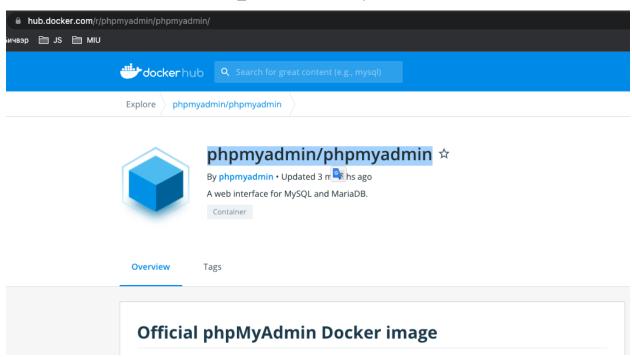
Khosbayar Sandag Student ID #613812

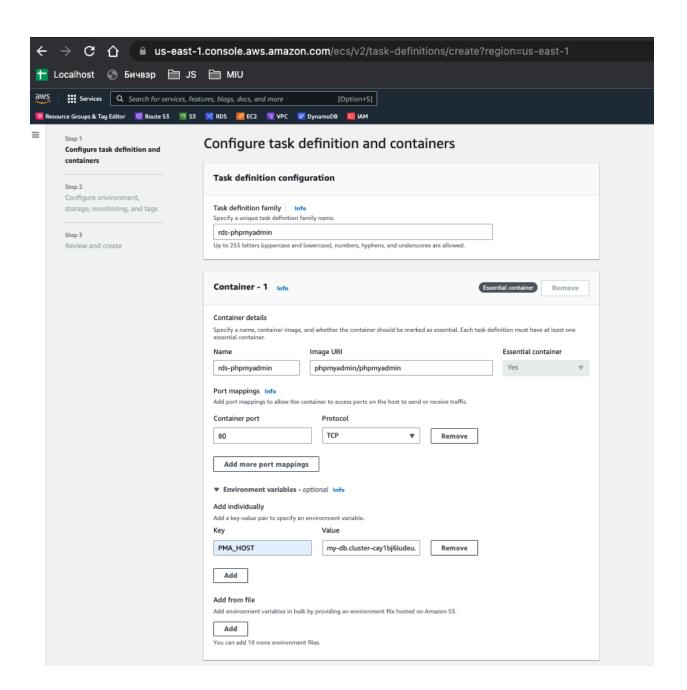
2 options to install phpmyadmin on AWS:

- 1. Deploy PHPMyAdmin docker in ECS
- 2. Run PHPMyAdmin docker on EC2

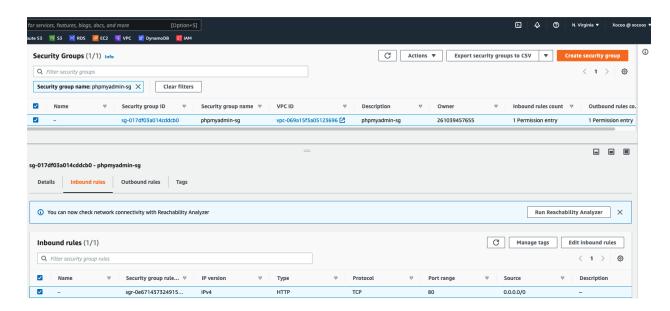
Deploy PHPMyAdmin docker in ECS

- 1. Create Task definitions
- 1a. Image URI = phpmyadmin/phpmyadmin
- 1b. Environment variables add PMA_HOST = RDS endpoint

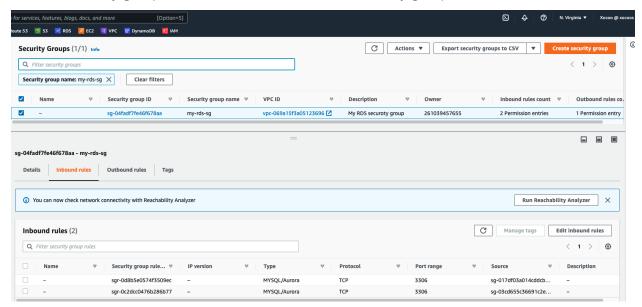




2. Create Security group for ECS Cluster

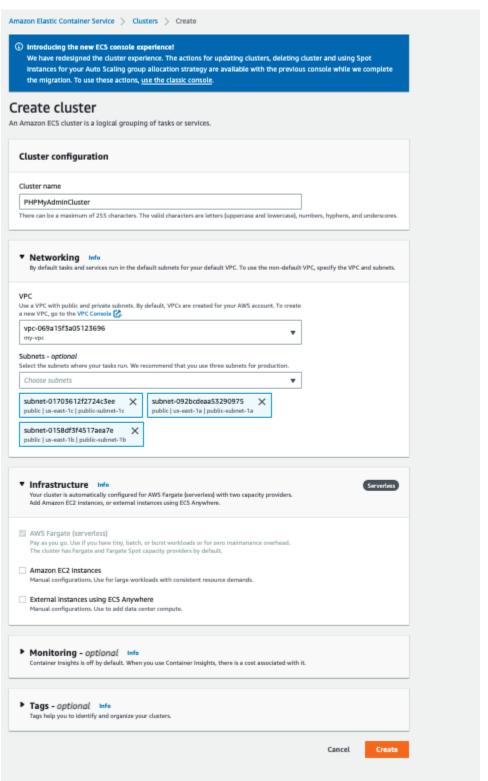


2a. RDS security group allow 3306 from ECS Cluster security group

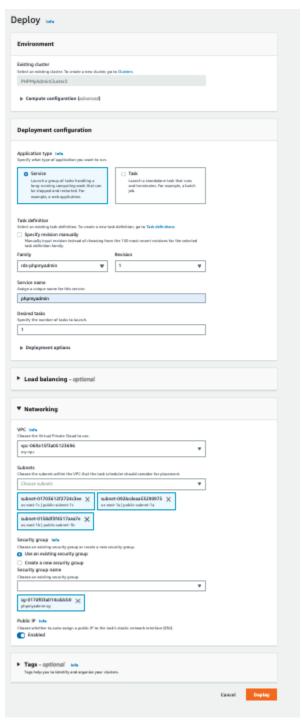


3. Create Cluster

3a. VPC choose public subnets

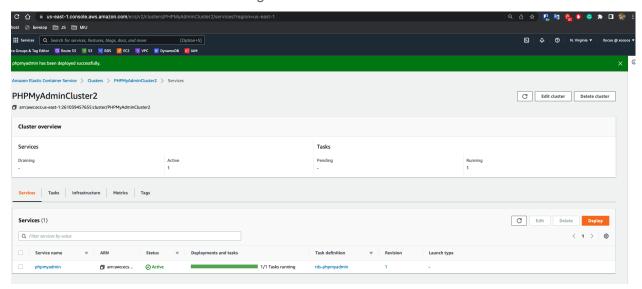


- 4. Deploy new cluster service
- 4a. Family = created task definition
- 4b. Security group = Security group for ECS Cluster

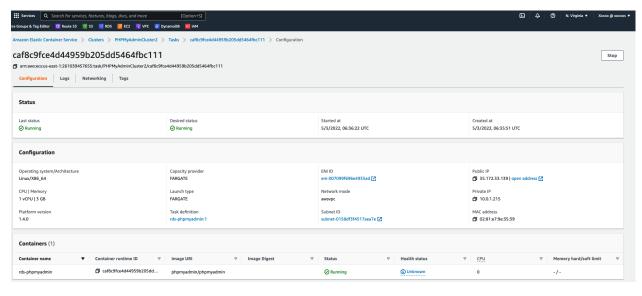


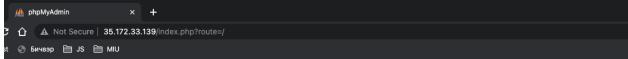
5. Check phpmyadmin

5a. Cluster service created and running

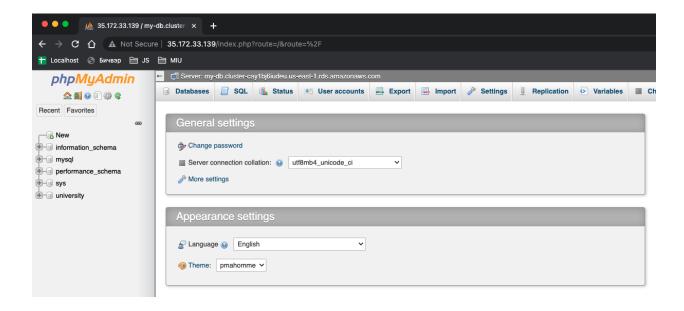


5b. Cluster task created and running









Run PHPMyAdmin on EC2

1. Install docker on EC2

```
sudo yum install docker -y

[ec2-user@ip-10-0-0-66 ~]$ sudo yum install docker

Loaded plugins: extras_suggestions, langpacks, priorities, update-motd

Resolving Dependencies

--> Running transaction check

---> Package docker.x86_64 0:20.10.13-2.amzn2 will be installed
```

2. Start docker

```
sudo systemctl start docker.service

[ec2-user@ip-10-0-0-66 ~]$ sudo systemctl start docker.service
```

3. Pull phpmyadmin docker image

```
docker pull phpmyadmin/phpmyadmin
```

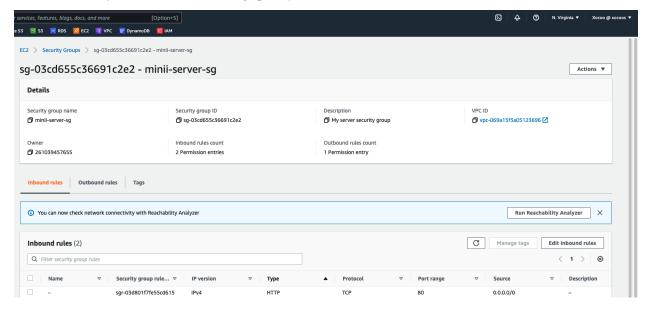
```
[ec2-user@ip-10-0-0-66 ~]$ sudo docker pull phpmyadmin/phpmyadmin
Using default tag: latest
latest: Pulling from phpmyadmin/phpmyadmin
5eb5b503b376: Pull complete
8b1ad84cf101: Pull complete
38c937dadeb7: Pull complete
6a2f1dc96e59: Pull complete
f8c3f82c39d4: Pull complete
90fc6462bd8e: Pull complete
c670d99116c9: Pull complete
268554d6fe96: Pull complete
6c29fa0d4492: Pull complete
73e23c50a259: Pull complete
81ac13c96fc2: Pull complete
b60a3e623949: Pull complete
dac5dd67fd59: Pull complete
fd46866d9c36: Pull complete
443a80ef4c80: Pull complete
5e6049224f95: Pull complete
213e66cdff56: Pull complete
9b9b44731108: Pull complete
Digest: sha256:1d3f6ec798a9faa201ada6678797f399202928e677dfccbb698ef0b511c798b0
Status: Downloaded newer image for phpmyadmin/phpmyadmin:latest
docker.io/phpmyadmin/phpmyadmin:latest
```

4. Run docker container

```
docker run --name aws-phpmyadmin -d -e
PMA_HOST=my-db.cluster-cay1bj6iudeu.us-east-1.rds.amazonaws.com -p 80:80
phpmyadmin/phpmyadmin
```

[ec2-user@ip-10-0-0-66 ~]\$ sudo docker run --name aws-phpmyadmin -d -e PMA_HOST=my-db.cluster-cay1bj6iudeu.us-east-1.rds.amazonaws.com -p 80:80 phpmyadmin/phpmyadmin ∂59632974fb371414dfcc15a4436131e3ac2b4c7168f192df66d21cb22c2d6b2 [ec2-user@ip-10-0-0-66 ~]\$ ■

5. Enable 80 port on EC2 security group



6. Check on PHPMyAdmin 80 port

