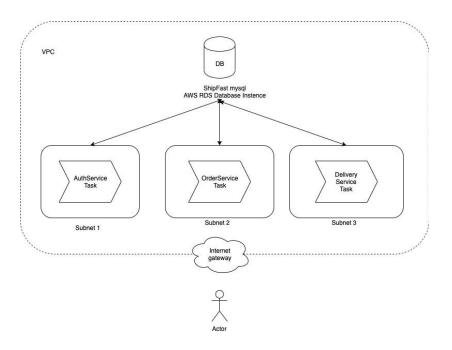
M.Sc. in IT – Field of Specialization Enterprise Application Development

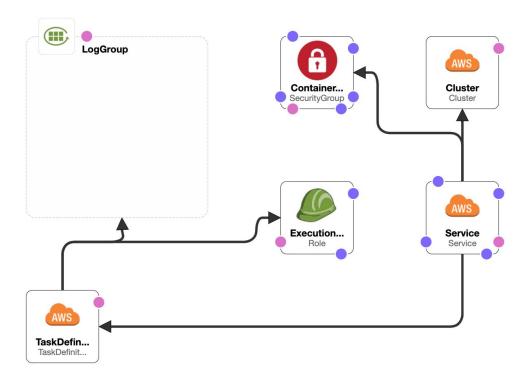
2020 – Semester 03 SE6020 – Cloud Computing Assignment

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Architecture diagram



Cloudformation diagram



Following is the Cloudformation stack that I have created. It will create and run each task but for some reason, it is getting stopped. I haven't found the issue yet. However, when I creating each task by own, I used task definitions to deploy each task. Following is the cloud formation stack.

Cloudformation Stack (not working)

```
AWSTemplateFormatVersion: "2010-09-09"
Parameters:
Resources:
```

```
awslogs-stream-prefix: ecs
RequiresCompatibilities:
    - FARGATE

Service:
    Type: AWS::ECS::Service
Properties:
    ServiceName: shipfast-service
    Cluster: !Ref Cluster
    TaskDefinition: !Ref TaskDefinition
    DesiredCount: 1
    LaunchType: FARGATE
    NetworkConfiguration:
    AwsvpcConfiguration:
    AwsvpcConfiguration:
    AssignPublicIp: ENABLED
    Subnets:
    - !Ref SubnetID
    SecurityGroups:
    - !GetAtt ContainerSecurityGroup.GroupId
```

Task definitions used to deploy (auth)

```
}
],
"requiresCompatibilities": [
    "FARGATE"
],
"cpu": "256",
"memory": "512"
}
```

Task definitions used to deploy (order)

```
"family": "nodejs-fargate-task-order",
  "networkMode": "awsvpc",
  "executionRoleArn": "arn:aws:iam::946034122256:role/ecsTaskExecutionRole",
  "containerDefinitions": [
          "name": "nodejs-app-order",
          "image":
"946034122256.dkr.ecr.us-east-1.amazonaws.com/shipfast/auth:order",
          "portMappings": [
                  "containerPort": 3000,
                  "hostPort": 3000,
                  "protocol": "tcp"
          ],
          "essential": true
  "requiresCompatibilities": [
      "FARGATE"
  "cpu": "256",
  "memory": "512"
```

Task definitions used to deploy (delivery)

```
{
    "family": "nodejs-fargate-task-delivery",
```

```
"networkMode": "awsvpc",
  "executionRoleArn": "arn:aws:iam::946034122256:role/ecsTaskExecutionRole",
  "containerDefinitions": [
          "name": "nodejs-app-delivery",
          "image":
"946034122256.dkr.ecr.us-east-1.amazonaws.com/shipfast/auth:delivery",
          "portMappings": [
                  "containerPort": 3000,
                  "hostPort": 3000,
                  "protocol": "tcp"
          1,
          "essential": true
  ],
  "requiresCompatibilities": [
      "FARGATE"
  "cpu": "256",
  "memory": "512"
```