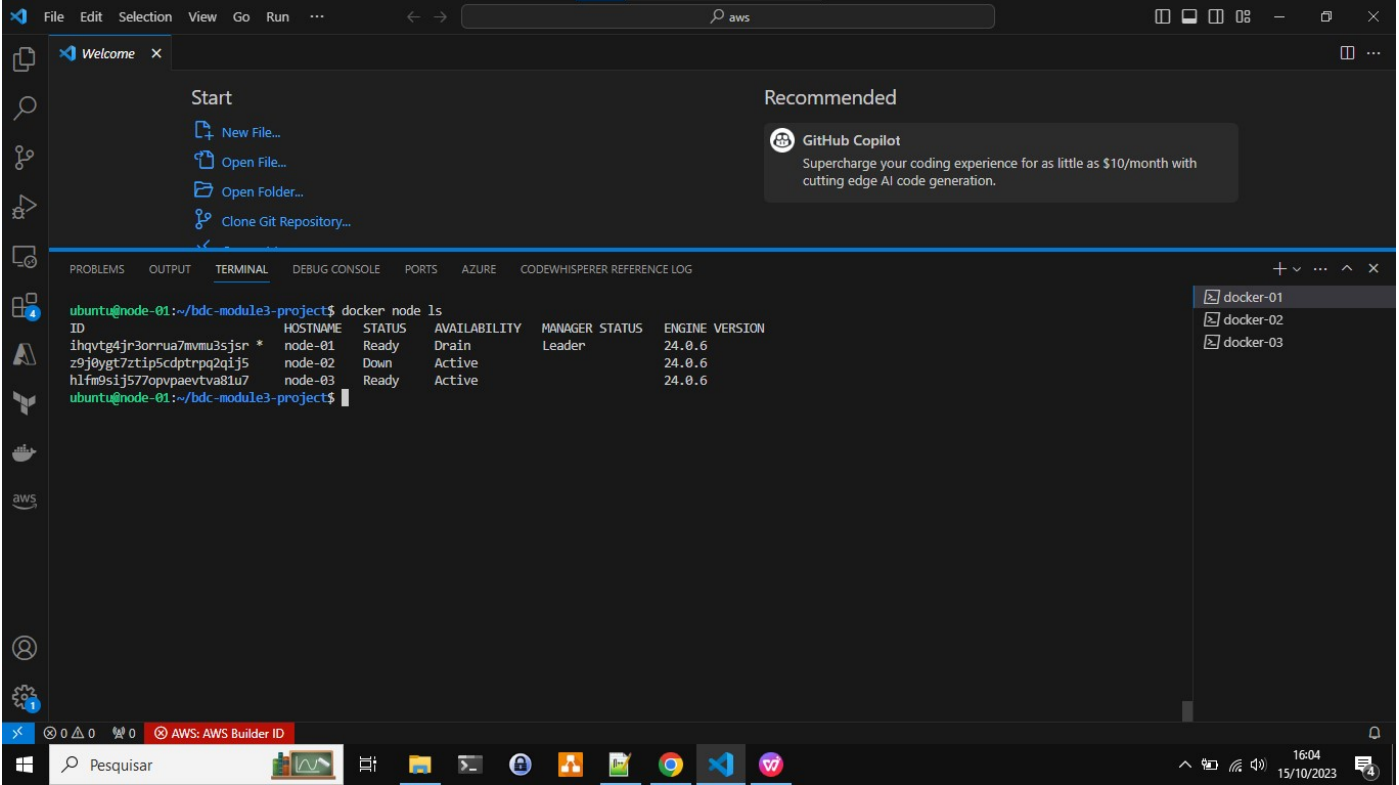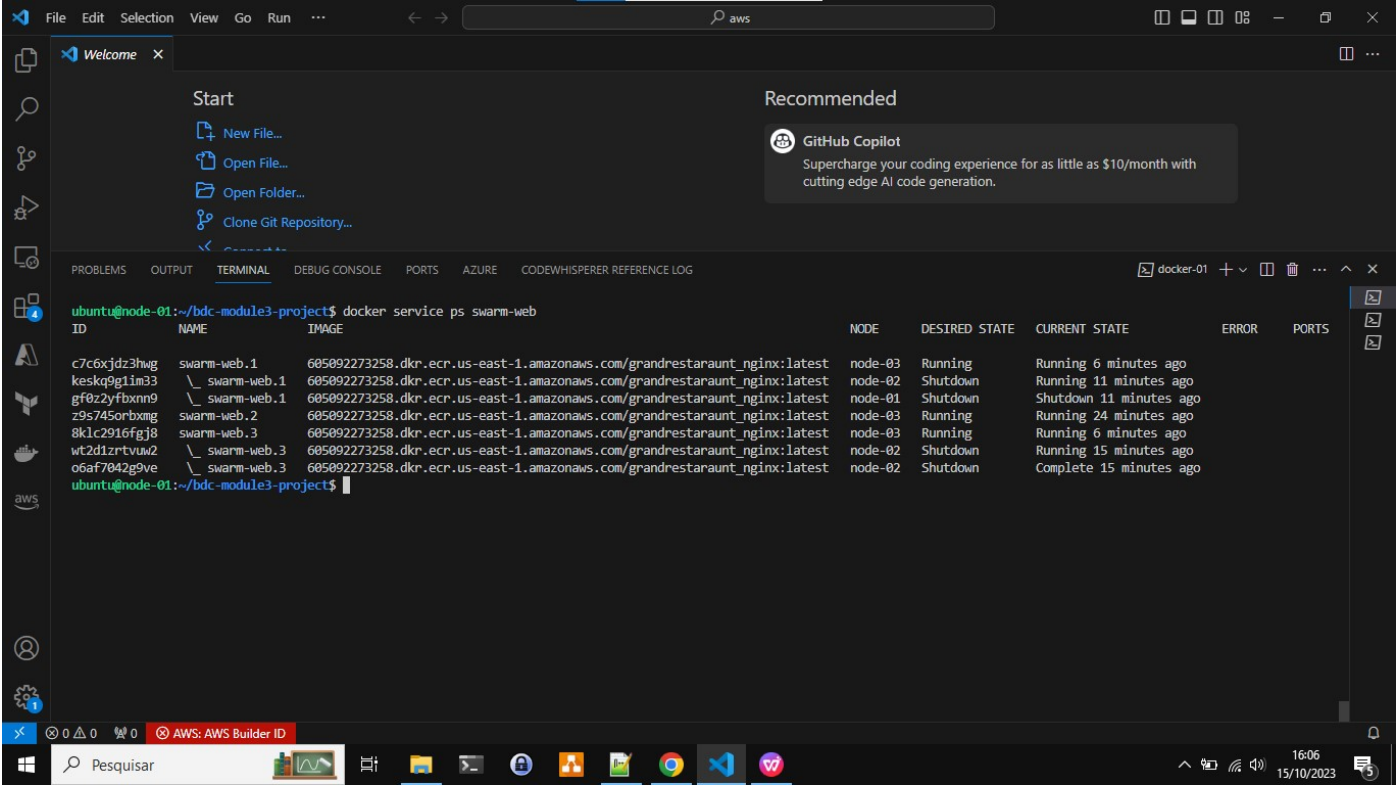**RODRIGO RICOY MARQUES - Evidências DevOps-Mod3**

Criação cluster Swarm com 03 nós através do comando "docker node ls"

Teste de HA: réplicas executadas em apenas um nó

Desafio 1: Rebalanceamento do cluster

```
ubuntu@node-01:~/bdc-module3-project$ docker service ps swarm-web
ID              NAME            IMAGE                                                                              NODE              DESIRED STATE   CURRENT STATE            ERROR
                PORTS
c7c6xjdz3hwg    swarm-web.1     605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Running         Running 15 minutes ago
keskq9g1im33    \_ swarm-web.1  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Shutdown        Shutdown 5 minutes ago
gf0z2yfbxnn9    \_ swarm-web.1  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-01           Shutdown        Shutdown 20 minutes ago
z9s745orbxmg    swarm-web.2     605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Running         Running 33 minutes ago
8klc2916fgj8    swarm-web.3     605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Running         Running 15 minutes ago
wt2d1zrtvuw2    \_ swarm-web.3  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Shutdown        Shutdown 5 minutes ago
o6af7042g9ve    \_ swarm-web.3  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Shutdown        Complete 24 minutes ago
```

```
ubuntu@node-01:~/bdc-module3-project$ docker service update --force swarm-web
swarm-web
overall progress: 3 out of 3 tasks
1/3: running   [==================================================>]
2/3: running   [==================================================>]
3/3: running   [==================================================>]
verify: Service converged
```

```
ubuntu@node-01:~/bdc-module3-project$ docker service ps swarm-web
ID              NAME            IMAGE                                                                              NODE              DESIRED STATE   CURRENT STATE            ERROR
                PORTS
kay4502cmxkt    swarm-web.1     605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Running         Running 11 seconds ago
c7c6xjdz3hwg    \_ swarm-web.1  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Shutdown        Shutdown 12 seconds ago
keskq9g1im33    \_ swarm-web.1  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Shutdown        Shutdown 7 minutes ago
gf0z2yfbxnn9    \_ swarm-web.1  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-01           Shutdown        Shutdown 22 minutes ago
5vbmxnf8yedj    swarm-web.2     605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Running         Running 19 seconds ago
z9s745orbxmg    \_ swarm-web.2  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Shutdown        Shutdown 20 seconds ago
1codcnc1scd6    swarm-web.3     605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Running         Running 15 seconds ago
8klc2916fgj8    \_ swarm-web.3  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        node-03           Shutdown        Shutdown 16 seconds ago
wt2d1zrtvuw2    \_ swarm-web.3  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Shutdown        Shutdown 7 minutes ago
o6af7042g9ve    \_ swarm-web.3  605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest        ip-172-31-35-194  Shutdown        Complete 25 minutes ago
```

Desafio 2: Tornar o node-01 active e realizar o rebalanceamento do cluster

```
ubuntu@node-01:~/bdc-module3-project$ docker node ls
ID                              HOSTNAME             STATUS    AVAILABILITY    MANAGER STATUS    ENGINE VERSION
z9j0ygt7ztip5cdptrpq2qij5       ip-172-31-35-194     Ready     Active                            24.0.6
ihqvtg4jr3orrua7mvmu3sjsr *     node-01              Ready     Drain           Leader            24.0.6
hlfm9sij577opvpaevtva81u7       node-03              Ready     Active                            24.0.6
ubuntu@node-01:~/bdc-module3-project$ docker node update --availability active ihqvtg4jr3orrua7mvmu3sjsr
ihqvtg4jr3orrua7mvmu3sjsr
ubuntu@node-01:~/bdc-module3-project$ docker node ls
ID                              HOSTNAME             STATUS    AVAILABILITY    MANAGER STATUS    ENGINE VERSION
z9j0ygt7ztip5cdptrpq2qij5       ip-172-31-35-194     Ready     Active                            24.0.6
ihqvtg4jr3orrua7mvmu3sjsr *     node-01              Ready     Active           Leader            24.0.6
hlfm9sij577opvpaevtva81u7       node-03              Ready     Active                            24.0.6
ubuntu@node-01:~/bdc-module3-project$ docker service update --force swarm-web
swarm-web
overall progress: 3 out of 3 tasks
1/3: running   [==================================================>]
2/3: running   [==================================================>]
3/3: running   [==================================================>]
verify: Service converged
```

```
ubuntu@node-01:~/bdc-module3-project$ docker service ps swarm-web
ID              NAME              IMAGE                                                                      NODE              DESIRED STATE    CURRENT STATE              ERROR
    PORTS
ttjwju9e3644    swarm-web.1       605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-03           Running          Running 13 seconds ago
kay4502cmxkt    \_ swarm-web.1    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-03           Shutdown         Shutdown 14 seconds ago
c7c6xjdz3hwg    \_ swarm-web.1    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-03           Shutdown         Shutdown 5 minutes ago
keskq9g1im33    \_ swarm-web.1    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  ip-172-31-35-194  Shutdown         Shutdown 12 minutes ago
gf0z2yfbxnn9    \_ swarm-web.1    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-01           Shutdown         Shutdown 27 minutes ago
p2i3jzljnfng    swarm-web.2       605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  ip-172-31-35-194  Running          Running 17 seconds ago
5vbmxnf8yedj    \_ swarm-web.2    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  ip-172-31-35-194  Shutdown         Shutdown 18 seconds ago
z9s745orbxmg    \_ swarm-web.2    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-03           Shutdown         Shutdown 5 minutes ago
vwzgphjkjd8d    swarm-web.3       605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-01           Running          Running 22 seconds ago
1codcnc1scd6    \_ swarm-web.3    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  ip-172-31-35-194  Shutdown         Shutdown 22 seconds ago
8klc2916fgj8    \_ swarm-web.3    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  node-03           Shutdown         Shutdown 5 minutes ago
wt2d1zrtvuw2    \_ swarm-web.3    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  ip-172-31-35-194  Shutdown         Shutdown 12 minutes ago
o6af7042g9ve    \_ swarm-web.3    605092273258.dkr.ecr.us-east-1.amazonaws.com/grandrestaraunt_nginx:latest  ip-172-31-35-194  Shutdown         Complete 31 minutes ago
ubuntu@node-01:~/bdc-module3-project$
```