AWS CLI EC2 & SECURITY GROUP

EC2
- Virtual server
- Create key value pair >> mv Downloads/docker-server.pem ~/.ssh/
- ssh -i ~/.ssh/docker-server.pem ec2-user@3.121.174.25 make sure you dont use root
- sudo usermod -aG docker $USER
  give rights to the user to run docker exit to log out and log in to have the updated permissions

Installing Docker
- **sudo yum update**

AWS CLI
- aws ec2 describe-security-groups see configured groups

Create securtiy group needs a vpc
- aws ec2 describe-vpcs to get all vpcs
- aws ec2 create-security-group --group-name my-sg --description "My SG" --vpc-id vpc-0b9b62e22b8f1925a

Add SSH to access the ec2 instance
```
aws ec2 authorize-security-group-ingress \
 --group-id sg-0c11d26fc8502e9d0 \
 --protocol tcp \
--port 22 \
--cidr 82.75.51.127/32
```

Create a keypair
```
aws ec2 create-key-pair \
--key-name MyKpCli \
--query 'KeyMaterial' \
--output text > MyKpCli.pem
```

Add permissions to the pem file to allow the ec2 instance to absorb the ssh
- chmod 400 MyKpCli.pem

Get Subnet id
- aws ec2 describe-subnets

Create an instance with all above:
```
aws ec2 run-instances \
   --image-id ami-0d318f1f104612755 \
   --count 1 \
```

```
    --instance-type t2.micro \
    --key-name MyKpCli \
    --security-group-ids sg-0c11d26fc8502e9d0 \
    --subnet-id subnet-035eb95886416141f \
```

Login to instance:
ssh -i MyKpCli.pem ec2-user@3.69.48.81

Query instances