Installing docker in our AWS EC2 instance.

First we need to create an EC2 instance.

Demo to create ec2 linux instance.

1. Login to aws.amazon.com/console
2. Search for EC2 and navigate to EC2 dashboard
3. Click the instances
4. Click the “Launch Instance” button
   1. Name: ust1
   2. OS: already it is selected as Amazon Linux
   3. AMI (free tier eligible)
   4. Key-Pair

Create a key-pair (.pem) file (will be downloaded).

Keep it safe for connecting to the ec2 instance later

* 1. Network settings:

By default, public ip address is disabled. Edit network settings to enable it

Firewall (Security group)

If you still have the VPC and subnets, “Select existing security group”

We have selected existing security group.

That’s all. Click “Launch Instance” button at bottom right corner.

Now, go to dashboard and see the instances.

Our instance status is now “Pending”. Refresh after few seconds it will become “Running”.

15.207.114.235

ec2-15-207-114-235.ap-south-1.compute.amazonaws.com

How to connect to EC2 linux instance?

Ssh client is used to connect from cmd prompt:

1. Click the instance from the instances.
2. Click the connect button
   1. Go to SSH tab and copy the last line (example command)

ssh -i "ust1.pem" ec2-user@ec2-15-207-114-235.ap-south-1.compute.amazonaws.com

since the username is not changed, it is by default, ec2-user

To install docker in AWS EC2 linux instance:

sudo yum update

sudo yum search docker

sudo yum install docker

sudo usermod -a -G docker ec2-user

id ec2-user

sudo systemctl enable docker.service

sudo systemctl start docker.service

sudo systemctl status docker.service

docker version

error: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied

solution:

sudo groupadd docker

sudo usermod -aG docker $USER

newgrp docker

sudo docker run hello-world

Now you can pull any docker image and run in EC2 instance.

Check in browser (replace the localhost by the public IP)

ex:

http://3.108.64.101:5000/employee

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to install docker-compose also:

wget https://github.com/docker/compose/releases/latest/download/docker-compose-$(uname -s)-$(uname -m)

sudo mv docker-compose-$(uname -s)-$(uname -m) /usr/local/bin/docker-compose

sudo chmod -v +x /usr/local/bin/docker-compose

<http://ec2-43-204-143-174.ap-south-1.compute.amazonaws.com:5000/employee>

swagger-ui/

Demo for deploying .jar in AWS Elastic Beanstalk

1. Login to aws.amazon.com console.
2. Search Elastic Beanstalk
3. Click “Create Application” button

<http://ashwin.ap-south-1.elasticbeanstalk.com/employee>

Deploying spring boot rest api in elastic beanstalk, configure MySQL in AWS (RDS)

awseb-e-bvin5qgsj9-stack-awsebrdsdatabase-luf3v53wk5hb.cljtedwklhul.ap-south-1.rds.amazonaws.com:3306

awseb-e-bvin5qgsj9-stack-awsebrdsdatabase-luf3v53wk5hb.cljtedwklhul.ap-south-1.rds.amazonaws.com:3306

awseb-e-bvin5qgsj9-stack-awsebrdsdatabase-luf3v53wk5hb.cljtedwklhul.ap-south-1.rds.amazonaws.com