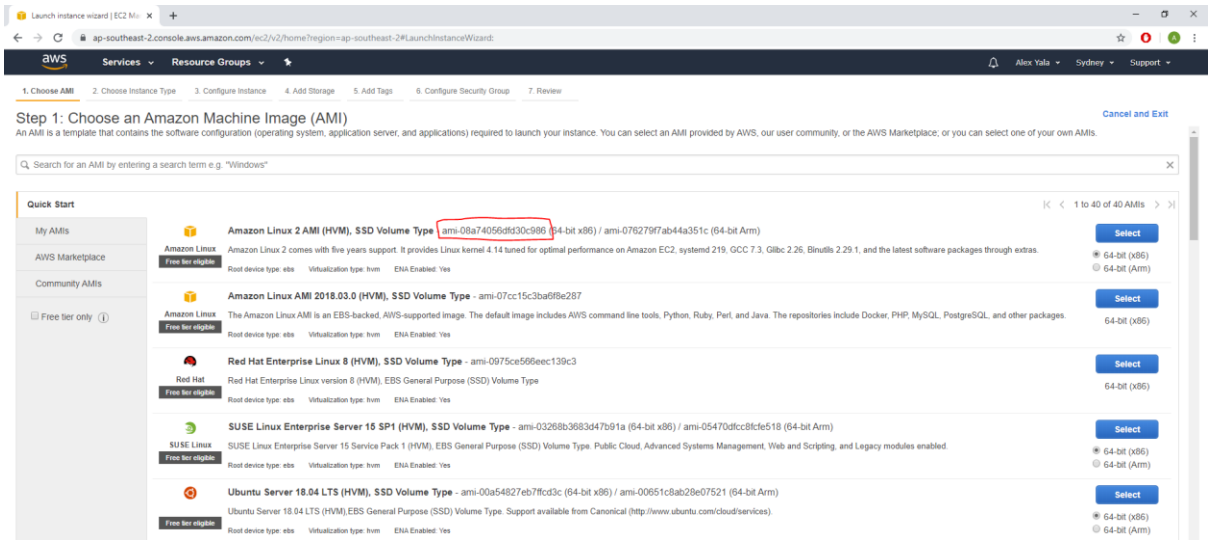
Step by step guide for REA Simple Sinatra App Demo

1. Install AWS CLI

2. Configure user parameters:

```
[root@ip-172-31-15-122 ~]# aws configure
AWS Access Key ID [None]: AKIAYP5ZDDRWAT7VB66N
AWS Secret Access Key [None]:
Y8RcK8ZiqQzzzzzzz5KNGfaAtNdOyiOTKLhRONy
Default region name [None]: ap-southeast-2
Default output format [None]:
```

3. Launch Instance for a base VM



ami-08a74056dfd30c986 was used as the base AMI

4. Download keypair

aws ec2 create-key-pair --key-name MyKeyPair --query 'KeyMaterial' --output text > MyKeyPair.pem

5. Download the VM setup file to configure the VM

```
curl https://raw.githubusercontent.com/4layxel4/REA_demo/master/vmsetup.txt
-o vmsetup.txt
```

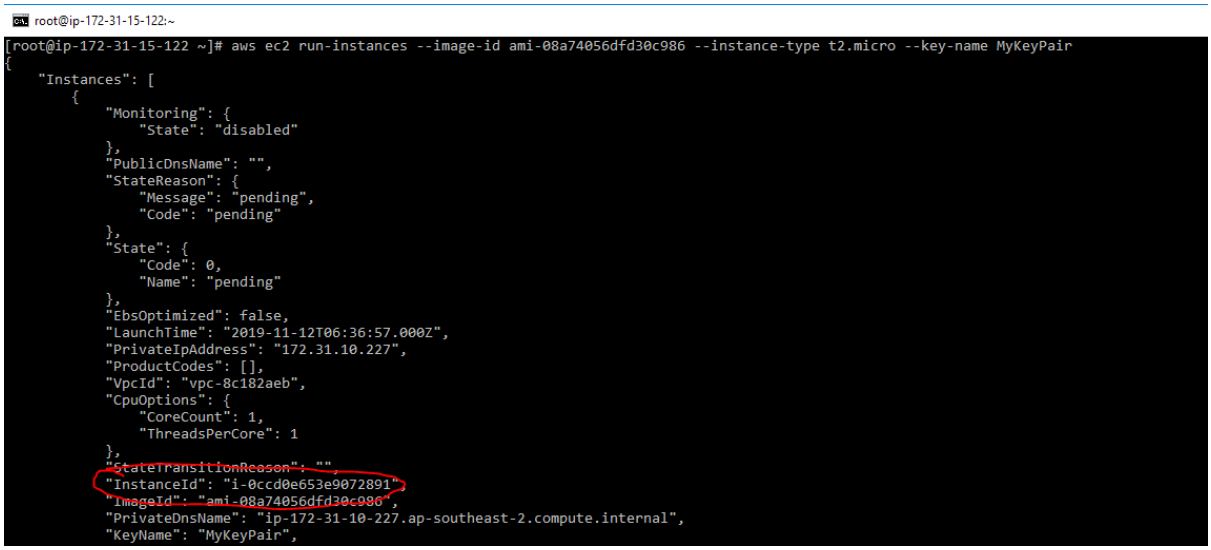
Content of the script:

```
#!/bin/bash

yum update -y

yum install -y httpd

service httpd start

chkconfig httpd on

groupadd www

usermod -a -G www ec2-user

chown -R root:www /var/www

chmod 2775 /var/www

find /var/www -type d -exec chmod 2775 {} +

find /var/www -type f -exec chmod 0664 {} +

echo "<h1> Hello REA from $HOSTNAME. This instance was created on `date
+%d` `date +%b` `date +%Y` </h1>" > /var/www/html/index.html
```

6. Make sure the Default Security Group has Incoming HTTP port open from anywhere (0.0.0.0/0)

7. Create the base instance

```
aws ec2 run-instances --image-id ami-08a74056dfd30c986 --instance-type
t2.micro --key-name MyKeyPair
```

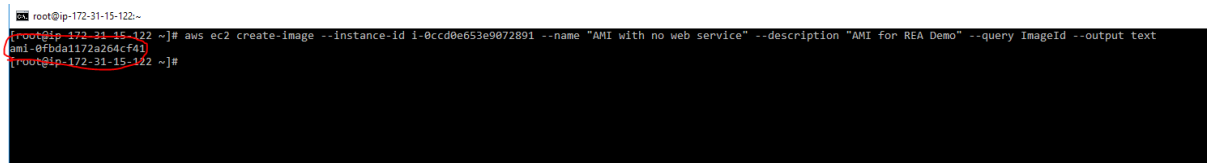


Instance Id = i-0ccd0e653e9072891

Note down the Instance ID

8. Create Personal AMI

```
aws ec2 create-image --instance-id i-0ccd0e653e9072891 --name "AMI with no
web service" --description "AMI for REA Demo" --query ImageId --output text
```

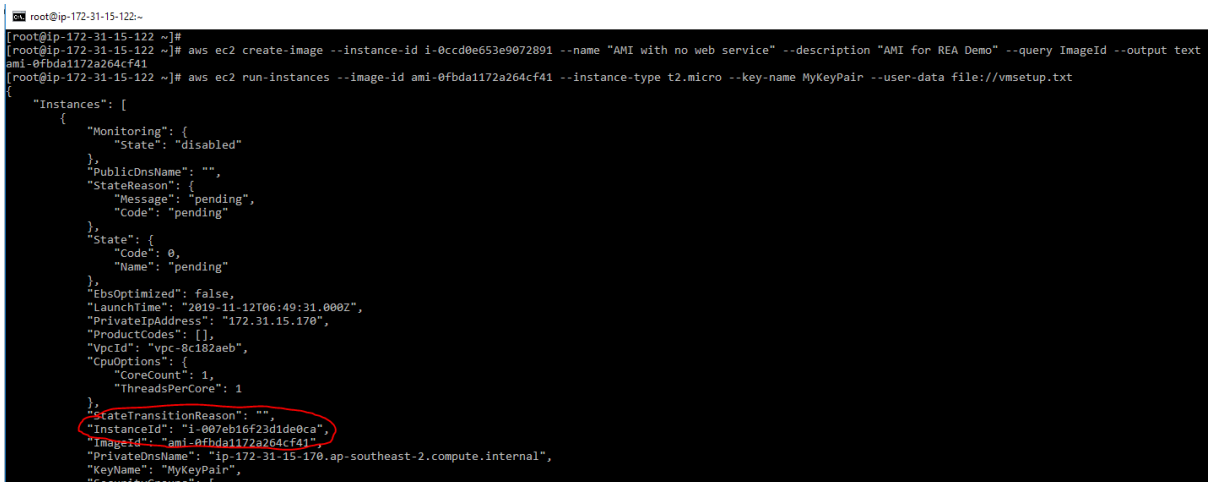


ami-0fbda1172a264cf41

9. Launching an instance using personal AMI

Create a new instance with webserver installed using the script.

aws ec2 run-instances --image-id ami-0fbda1172a264cf41 --instance-type t2.micro --key-name MyKeyPair --user-data file://vmsetup.txt



Instance ID = i-007eb16f23d1de0ca

10. Confirm the web service is working

Login to AWS Console > EC2 > find the Instance ID from the last launch > find the Public IP address > Browse to the public IP address