Module 17 – Project 4

Project- On-Prem VM machine migration to AWS EC2 instance

In this Project we will be uploading centos .vmdk file to S3 bucket and then we will convert this .vmdk file into AWS AMI format.

Now let create the Role and update the policy in it.

Below is the policy that we need to create.

```
{
"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Principal": { "Service": "vmie.amazonaws.com" },
"Action": "sts:AssumeRole",
"Condition": {
"StringEquals":{
"sts:Externalid": "vmimport"
}
}
}
]
}
```

Run this command from CLI to create the policy

aws iam create-role --role-name vmimport --assume-role-policy-document file://policy.json

Now select this role and create the inline policy. We will name this policy as vmimport

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
```

```
        "Effect": "Allow",
        "Action": [
            "s3:ListBucket",
            "s3:GetBucketLocation"
        ],
        "Resource": [
            "arn:aws:s3:::demovnware"
        ]
    },
    {
        "Effect": "Allow",
        "Action": [
            "s3:GetObject"
        ],
        "Resource": [
            "arn:aws:s3::: demovnware /*"
        ]
    },
    {
        "Effect": "Allow",
        "Action": [
            "ec2:ModifySnapshotAttribute",
            "ec2:CopySnapshot",
            "ec2:RegisterImage",
            "ec2:Describe*"
        ],
        "Resource": "*"
    }
]
```

}

Now create another json file name as containers.json and add below parmater

Here if the format of the file is ova then we have to specify that

```
[
 {
   "Description": "VM",
   "Format": "ova",
   "UserBucket": {
      "S3Bucket": "bucketname",
      "S3Key": "bucket-file-name"
   }
}]
```

Now below command to run this json file

aws ec2 import-image --description "Windows 2008 VHD" --disk-containers file://containers.json

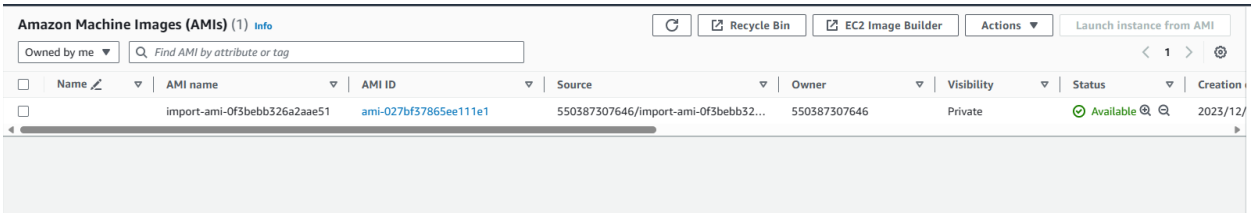
it will take almost 20-25 min

use below command to check the status of this command.

aws ec2 describe-import-image-tasks --import-task-ids=imageid

we have to wait until this status show as completed.

Now let go to the AMI selection and see if there is image present or not.



Now let’s try to launch the instance using this AMI.

We have successfully able to migrate the on-prem VM to AWS EC2.

Username is root

Pass – piyush@321