

Exercise5

Accessing S3 bucket from private EC2

1. Login to your IAM user
2. Follow all the steps of Exercise2
3. Create a S3 bucket
 - a. Type S3 in the search bar
 - b. Give a name (choose the same region where you have created the rest of the setup; keep all the other default settings)
4. Upload a sample file in the bucket
 - a. Select your bucket, click Upload, click Add files, upload a small file (may be an empty one) you want to store in your bucket, click upload
5. Create an IAM role
 - a. Type IAM in the search bar
 - b. Click Roles, click Create role
 - i. Trusted entity type: AWS Service; Use case: EC2; click Next
 - ii. Type S3 in the search bar, select AmazonS3ReadOnlyAccess, click Next
 - iii. Give a role name, click Create role
6. Attach the role to the private EC2
 - a. Go to EC2 Dashboard, select the private EC2, click Actions->Security->Modify IAM Role, choose your IAM role and press Update IAM role
7. Create VPC Gateway endpoint
 - a. Type VPC in the search bar
 - b. Click endpoints, click Create endpoint, give a name, Service category: AWS services, Services: (type s3 in the search bar) Gateway Type, choose your VPC, select the private route table, Policy: Full access, press Create endpoint
8. Select your private route table, go to Routes. You should see the new route with the destination that starts with pl (prefix list)
9. Download S3 bucket data from private EC2
 - a. Go to S3, select your bucket, click the file that you uploaded, copy S3 URI
 - b. ssh private EC2 from public EC2
 - c. type the commands:
 - i. `aws s3 cp <paste your S3 URI> .`
 - ii. `ls`
10. Upload the screenshot that:
 - a. shows your **IAM user name** and
 - b. the EC2 welcome page that has the output of the commands:
 - i. `ssh -i <your .pem file> ec2-user@<private ec2 ip address>`
 - ii. `aws s3 cp <paste your S3 URI> .`
 - iii. `ls`
11. **Stop both of your EC2 instances**
12. **Empty and Delete your S3 bucket**

Sources:

<https://www.awswithchetan.com/>