Lab 6: Connecting S3 Bucket with EC2 instance

Overview

1. Create an AWS Identity and Access Management (IAM) profile role that grants access to Amazon S3.

1. Open the IAM console.
2. Choose Roles, and then choose Create role.
3. Select AWS Service, and then choose EC2 under Use Case.
4. Select Next: Permissions.
5. Create a custom policy that provides the minimum required permissions to access your S3 bucket.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "AllowAuroraToExampleBucket",
      "Effect": "Allow",
      "Action": [
        "s3:PutObject",
        "s3:GetObject",
        "s3:AbortMultipartUpload",
        "s3:ListBucket",
        "s3:DeleteObject",
        "s3:GetObjectVersion",
        "s3:ListMultipartUploadParts"
      ],
```

```
        "Resource": [
          "arn:aws:s3:::example-a-bucket/*",
          "arn:aws:s3:::example-a-bucket"
        ]
      }
    ]
}
```

6. Select Next: Tags, and then select Next: Review.

7. Enter a Role name, and then select Create role.

2. **Attach the IAM instance profile to the instance.**

   1. Open the Amazon EC2 console.

   2. Choose Instances.

   3. Select the instance that you want to attach the IAM role to.

   4. Choose the Actions tab, choose Security, and then choose Modify IAM role.

   5. Select the IAM role that you just created, and then choose Save. The IAM role is assigned to your EC2 instance.

3. **Validate permissions on your S3 bucket.**

   1. Open the Amazon S3 console.

   2. Select the S3 bucket that you want to verify the policy for.

   3. Choose Permissions.

   4. Choose Bucket Policy.

   5. Search for statements with Effect: Deny.

   6. In your bucket policy, edit or remove any Effect: Deny statements that are denying the IAM instance profile access to your bucket. For instructions on editing policies, see Editing IAM policies.

4. **Validate access to S3 buckets.**

1. Install the AWS CLI on your EC2 instance.

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"

unzip awscliv2.zip

sudo ./aws/install

2. Verify access to your S3 buckets by running the following command. Replace DOC-EXAMPLE-BUCKET with the name of your S3 bucket.

aws s3 ls s3://example-a-bucket

content of s3 bucket will be displayed on console of ec2