

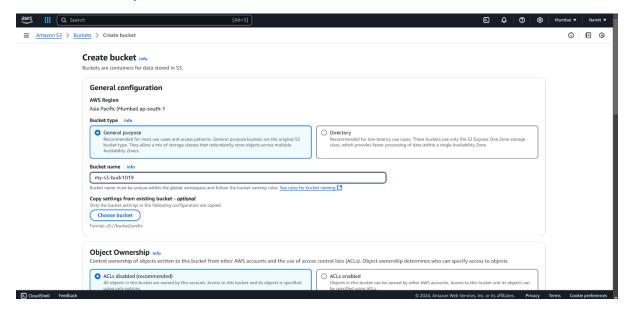
Subject: Advanced Cloud Computing (P)

Name of the Student: Namit Agarwal PRN: 20220801019

Title of Practical: IAM role Custom Policy to access S3

Step 1: Create an S3 Bucket

- 1. Go to the **S3** service in the AWS Console.
- 2. Click on Create bucket.
- 3. Enter a unique name for the bucket.



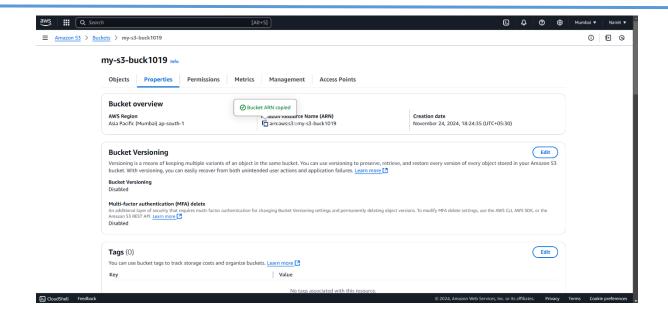
- 4. Click on Create bucket to finalize.
- 5. Once created, navigate to the bucket and copy the ARN of the S3 bucket. You'll need it in a later step.



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Step 2: Go to IAM Policies

- 1. Navigate to the IAM service in the AWS Console.
- 2. Click on **Policies** in the left-hand menu.

Step 3: Create a New Policy

- 1. Click on Create policy.
- 2. In the policy creation interface, select Service as S3, since we are creating a policy for S3.
- 3. Under the List section, check List buckets.
- 4. Under the Read section, check the boxes for the necessary read permissions (e.g., GetObject).
- 5. Under the Resource section, click on Add ARN and specify the ARN of the bucket:
 - o Copy the ARN from the S3 bucket list if you haven't done so already.

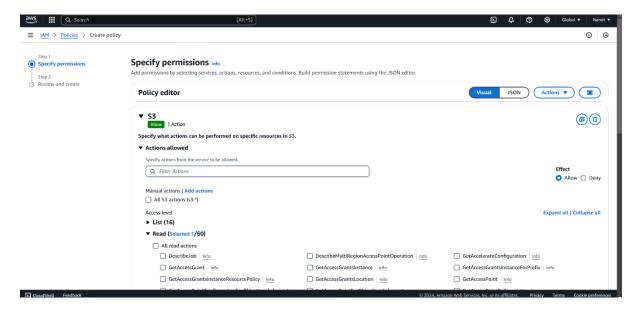


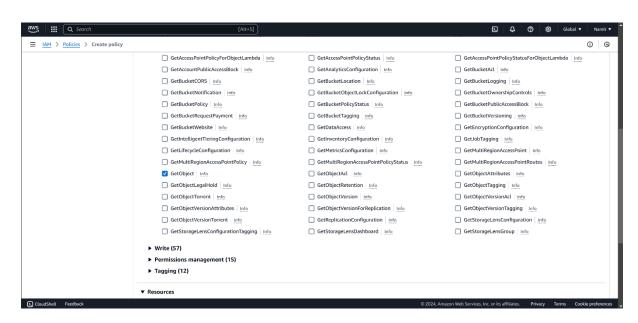
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Paste it in the Add ARN section under Resources.



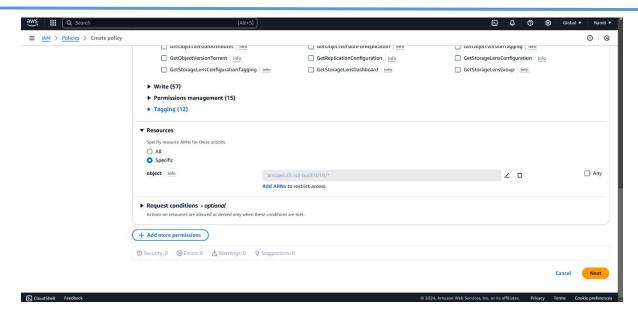




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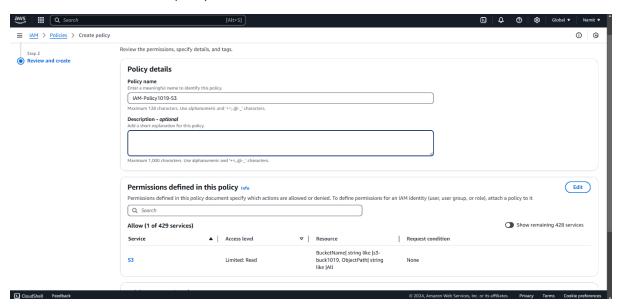
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Step 4: Review and Create the Policy

- 1. Click Next to proceed.
- 2. Give a name to the policy.





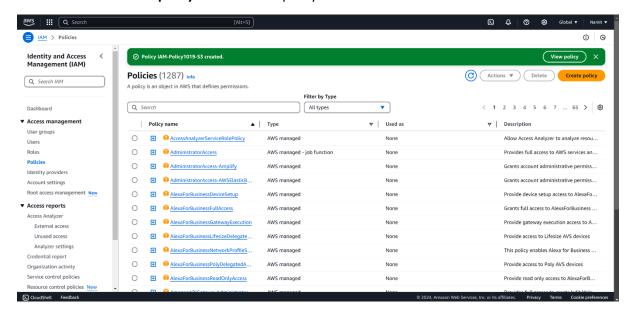
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3. Review the policy settings.

4. Click on Create policy to finalize the policy creation.



Step 5: Create an IAM User and Attach the Policy

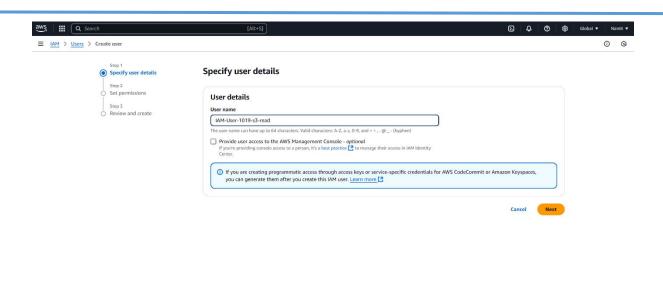
- 1. Go to the **Users** section in the IAM service.
- 2. Click on Create user.
- 3. Enter a name for the IAM user.



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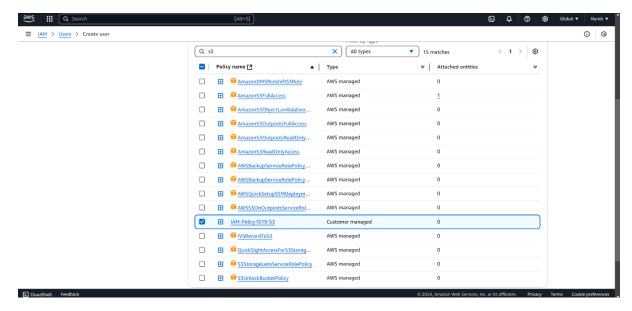
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4. Click Next.

CloudShell Feedback

5. In the **Permissions options** section, select **Attach policies directly**.





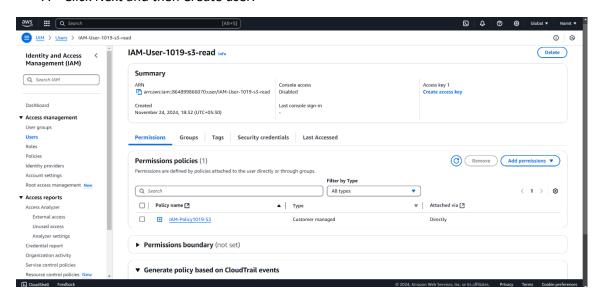
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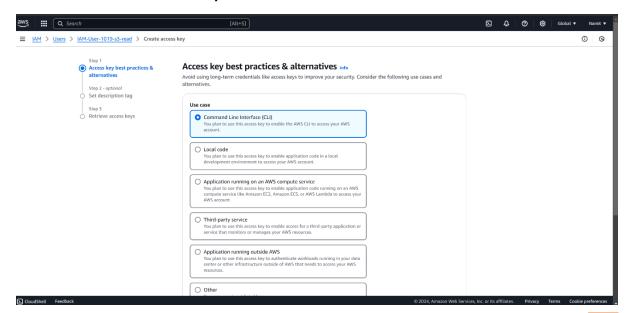
6. In the **Permissions policies** section, search for the policy you just created and select it.

7. Click Next and then Create user.



Step 6: Generate IAM User Access Keys

- 1. Go to the IAM user you just created.
- 2. Click on Create access key.





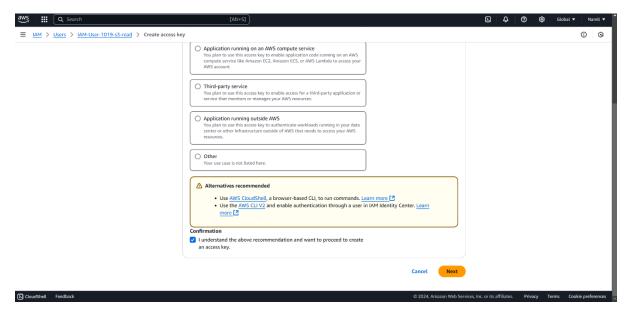
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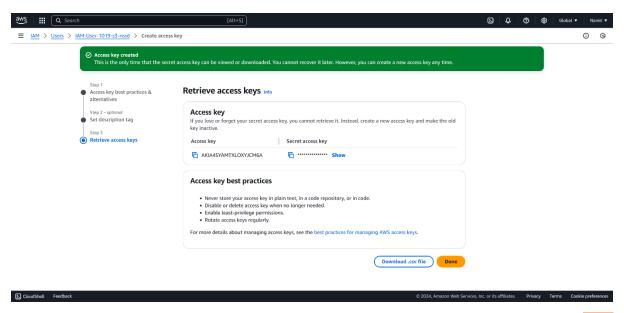
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1. Select Command Line Interface (CLI) as the use case.

2. Scroll down, check the confirmation box, and click Next.



- 1. Click Create access key.
- 2. Copy the Access Key and Secret Access Key and save them in a secure location.





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Step 7: Configure AWS CLI with IAM Credentials

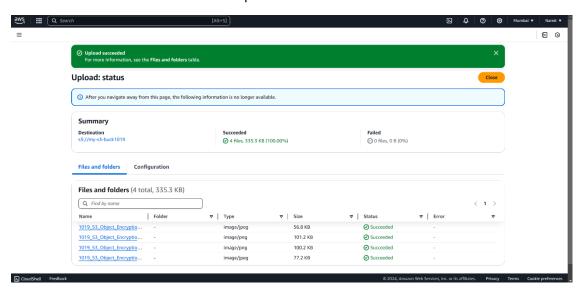
- 1. Open a terminal on your local machine.
- 2. Type the following command to configure AWS CLI:

aws configure

3. Enter the Access Key and Secret Access Key obtained in Step 6, along with your Default region and Default output format.

Step 9: Test Access to the S3 Bucket

1. Go back to the S3 bucket and upload a test file to it.





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In the terminal, run the following command to list the contents of your S3 bucket:

aws s3 ls s3://<bucket-name>