

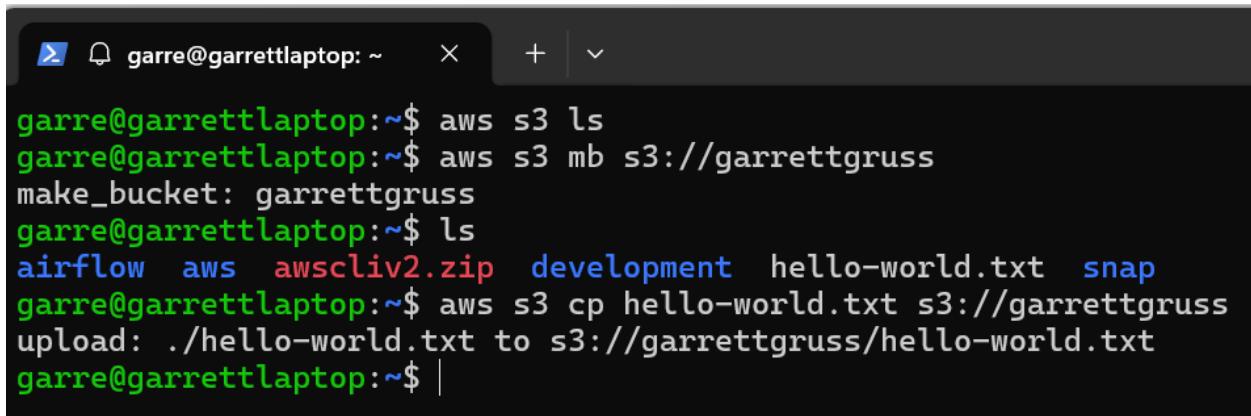
# Lab 1

Garrett Gruss 4976-3695

January 30, 2026

## 1 Summary

This exercise covered the creation of a user root account and several IAM user accounts. Access keys were created and inactivated through the AWS CLI. User groups were created and configured through the console and S3 Access was tested to verify the account permissions were configured.



```
garre@garrettlaptop:~$ aws s3 ls
garre@garrettlaptop:~$ aws s3 mb s3://garrettgruss
make_bucket: garrettgruss
garre@garrettlaptop:~$ ls
airflow aws awscliv2.zip development hello-world.txt snap
garre@garrettlaptop:~$ aws s3 cp hello-world.txt s3://garrettgruss
upload: ./hello-world.txt to s3://garrettgruss/hello-world.txt
garre@garrettlaptop:~$ |
```

Figure 1: Exercise 1.1

**My security credentials** Root user Info

The root user has access to all AWS resources in this account, and we recommend following [best practices](#). To learn more about the types of AWS credentials and how they're used, see [AWS Security Credentials](#) in AWS General Reference

Account details		Actions ▾	
Account name	Garrett-Gruss	Email address	garrett.g.gruss+1@gmail.com
AWS account ID	349577273469	Canonical user ID	1ce99383dff16b44166404ccf7bd866cb905f12797bcd3bbb2bc12508cb1156

Multi-factor authentication (MFA) (1)			
<a href="#">Remove</a> <a href="#">Resync</a> <a href="#">Assign MFA device</a>			
Type	Identifier	Certifications	Created on
Virtual	arn:aws:iam::349577273469:mfa/phone	Not Applicable	Wed Sep 03 2025

Figure 2: Exercise 6.1

**garrett-gruss-admin** Info [Delete](#)

Summary		
ARN	Console access	Access key 1
arn:aws:iam::349577273469:user/garrett-gruss-admin	⚠ Enabled without MFA	<a href="#">Create access key</a>
Created	Last console sign-in	
January 30, 2026, 10:50 (UTC-06:00)	⌚ Never	

Permissions	Groups (1)	Tags	Security credentials	Last Accessed												
<b>Permissions policies (3)</b> <a href="#">Add permissions</a> ▾																
Permissions are defined by policies attached to the user directly or through groups.																
Filter by Type <a href="#">Search</a> <a href="#">All types</a> <a href="#">Last modified</a> <a href="#">Attached via</a>																
<table border="1"> <thead> <tr> <th>Policy name</th> <th>Type</th> <th>Attached via</th> </tr> </thead> <tbody> <tr> <td><a href="#">admin</a></td> <td>Customer managed</td> <td>Group <a href="#">Admin</a></td> </tr> <tr> <td><a href="#">AmazonS3FullAccess</a></td> <td>AWS managed</td> <td>Group <a href="#">Admin</a></td> </tr> <tr> <td><a href="#">IAMUserChangePassword</a></td> <td>AWS managed</td> <td>Directly</td> </tr> </tbody> </table>					Policy name	Type	Attached via	<a href="#">admin</a>	Customer managed	Group <a href="#">Admin</a>	<a href="#">AmazonS3FullAccess</a>	AWS managed	Group <a href="#">Admin</a>	<a href="#">IAMUserChangePassword</a>	AWS managed	Directly
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Figure 3: Exercise 6.2 (1)

The screenshot shows the AWS S3 console. At the top, there's a success message: "Successfully created bucket 'garrettgruss-2'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there are two tabs: "General purpose buckets" (selected) and "All AWS Regions". Under "General purpose buckets", there's a sub-tab "All AWS Regions". On the right, there are buttons for "Copy ARN", "Empty", "Delete", and "Create bucket". A search bar says "Find buckets by name". The main table lists two buckets:

Name	AWS Region	Creation date
<a href="#">garrettgruss</a>	US East (N. Virginia) us-east-1	January 30, 2026, 10:38:39 (UTC-06:00)
<a href="#">garrettgruss-2</a>	US East (Ohio) us-east-2	January 30, 2026, 11:44:59 (UTC-06:00)

Figure 4: Exercise 6.2 (2)

```

garre@garrettlaptop:~$ aws s3 ls --profile default
2026-01-30 10:38:39 garrettgruss
2026-01-30 11:44:59 garrettgruss-2
garre@garrettlaptop:~$ aws iam update-access-key --user-name 349577273469 --access-key-id $aws_accesskeyid --status inactive
An error occurred (ValidationError) when calling the UpdateAccessKey operation: 1 validation error detected: Value at 's status' failed to satisfy constraint: Member must satisfy enum value set: [Expired, Active, Inactive]
garre@garrettlaptop:~$ aws iam update-access-key --user-name 349577273469 --access-key-id $aws_accesskeyid --status Inactive
An error occurred (NoSuchEntity) when calling the UpdateAccessKey operation: The user with name 349577273469 cannot be found.
garre@garrettlaptop:~$ aws iam update-access-key --user-name garrett-gruss-admin --access-key-id $aws_accesskeyid --status Inactive
garre@garrettlaptop:~$ aws s3 ls --profile default
2026-01-30 10:38:39 garrettgruss
2026-01-30 11:44:59 garrettgruss-2
garre@garrettlaptop:~$ aws sts get-caller-identity --profile default
An error occurred (InvalidClientTokenId) when calling the GetCallerIdentity operation: The security token included in the request is invalid.

```

Figure 5: Exercise 6.3

**excercise-6.4** [Info](#) [Delete](#)

**Summary** [Edit](#)

User group name excercise-6.4	Creation time January 30, 2026, 12:11 (UTC-06:00)	ARN <a href="#">arn:aws:siam::349577273469:group/excercise-6.4</a>
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[Users \(2\)](#) [Permissions](#) [Access Advisor](#)

**Users in this group (2)** [Add users](#)

An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.

<input type="checkbox"/>	User name	Groups	Last activity	Creation time
<input type="checkbox"/>	<a href="#">test1</a>	1	None	Now
<input type="checkbox"/>	<a href="#">test2</a>	None	Now	

Figure 6: Exercise 6.4