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Practical No. 1

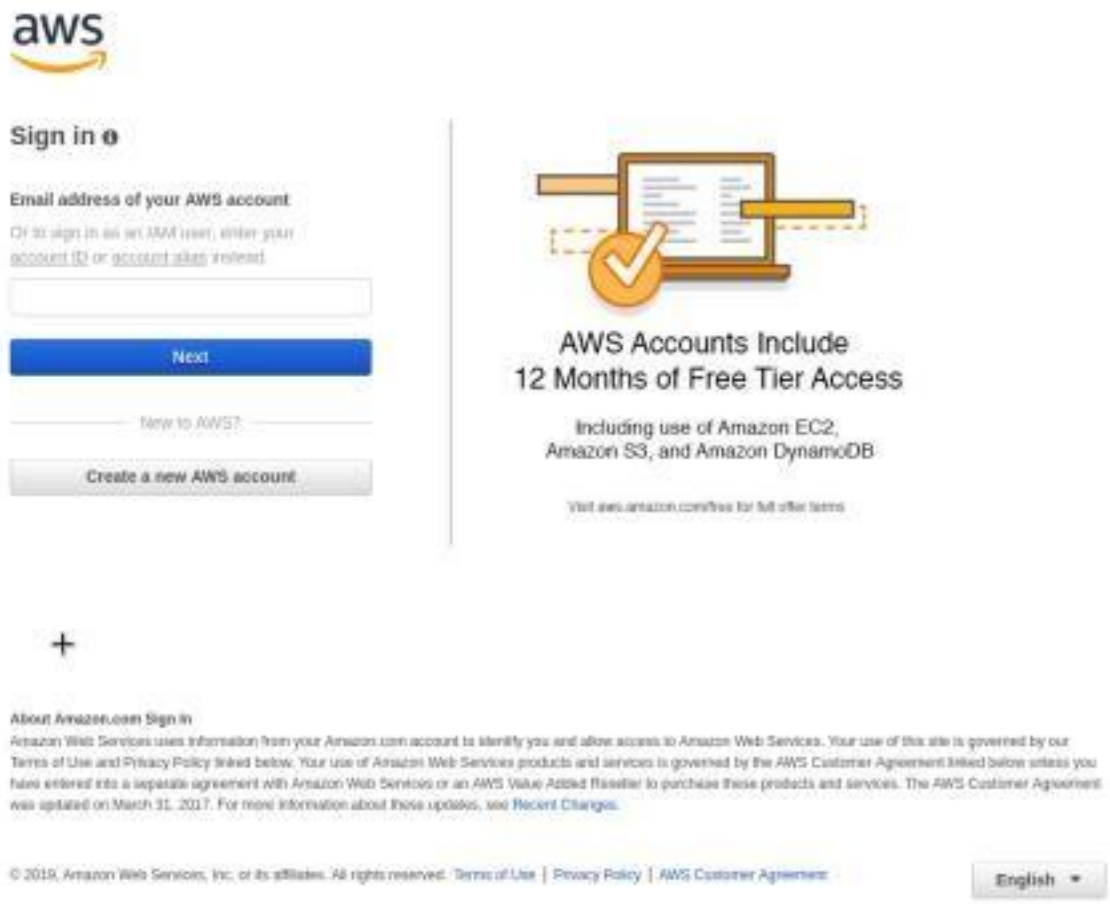
A] Creating an AWS Account – A Step by Step Process

Creating an AWS Account is the first step you need to take in order to learn Amazon Web Services. Signing up for AWS provides you with all the tools you require to become an AWS professional.
In this practical, we will look at the step-by-step process of Creating an AWS Account.

Step 1 – Visiting the Signup Page

Head over to the Amazon Web Services website for Creating an AWS Account. You should see something like below:

In order to continue, click the Complete Sign Up button in the middle of the screen or on the top right corner of the screen. You will see the below screen.

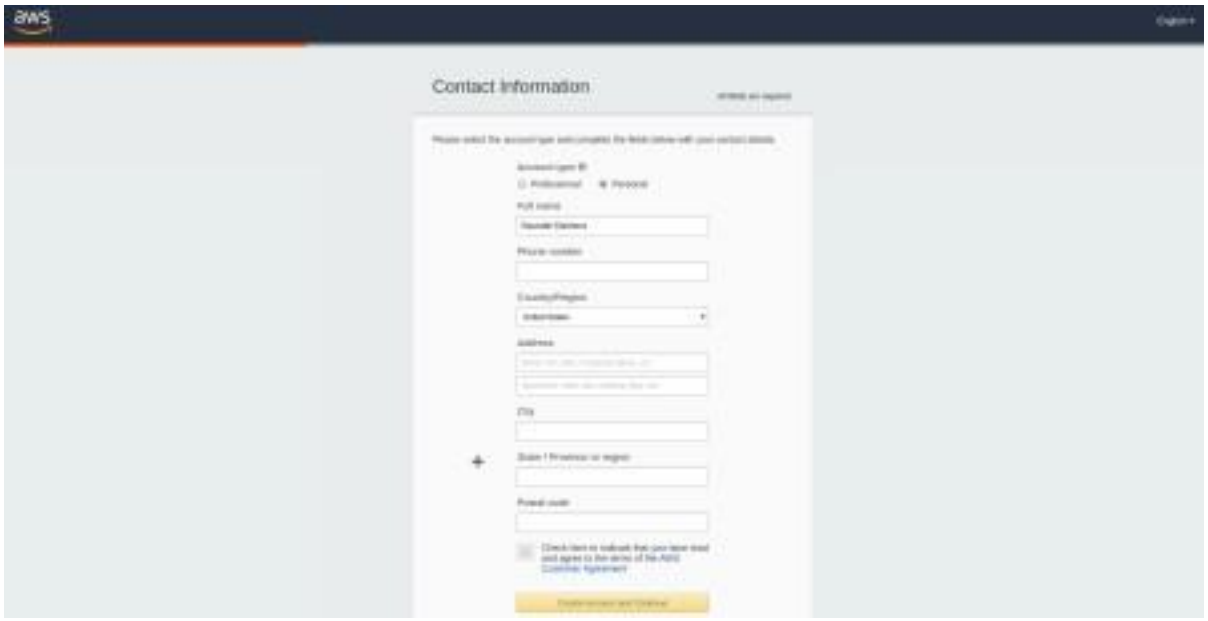


If you are an existing user, you can sign in. Or you can click on the Create a new AWS account button. On this screen, you can also select your language preference from the dropdown below.

Step 2 – Entering User Details

After you have chosen to Create a new AWS account, you will see the below screen asking for a few details.

You can fill up the details as per your requirements and click Continue.
Next you will be asked to fill up your contact details such as contact number, country, address and so on. You should fill them up properly because your contact number is important for further steps.



Note that unless you are creating an account for your organization,
it is better to select Account Type as Personal.
After filling up the details, click on the Create Account and Continue button at the bottom of the form.

Step 3 – Filling up the Credit Card details

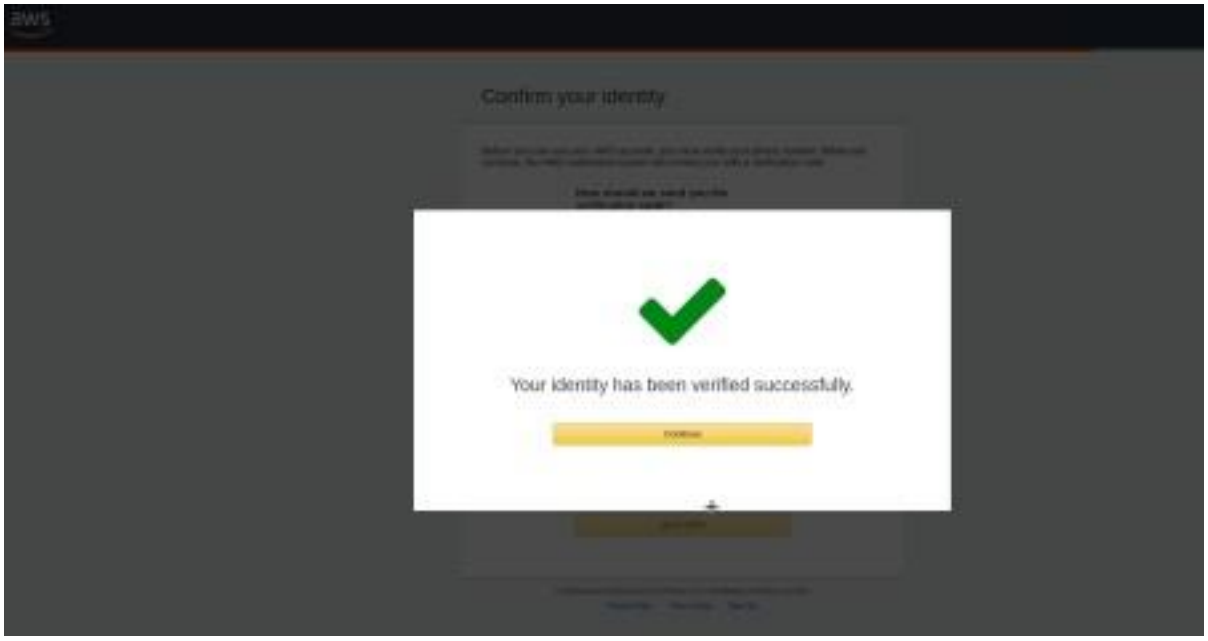
For Creating an AWS Account, you need to enter your Credit Card details.

However, don't worry. This will not charge anything from your account (except for a verification amount that will be refunded back). But this is required in case you exceed the free-tier limit available with a new AWS Account.
After entering the details, click on the Secure Submit button. It might take a while to process the request depending on your bank/credit card company servers.

Step 4 – Identity Confirmation

Once the credit card details are confirmed, you will need to complete the Identity Confirmation step. You will see the below screen:

Basically, you need to select a mode to confirm your identity. It could be a Text Message or a Voice call to your valid phone number.
Once you have verified successfully, you should see a screen like below:



Click on Continue to proceed further.

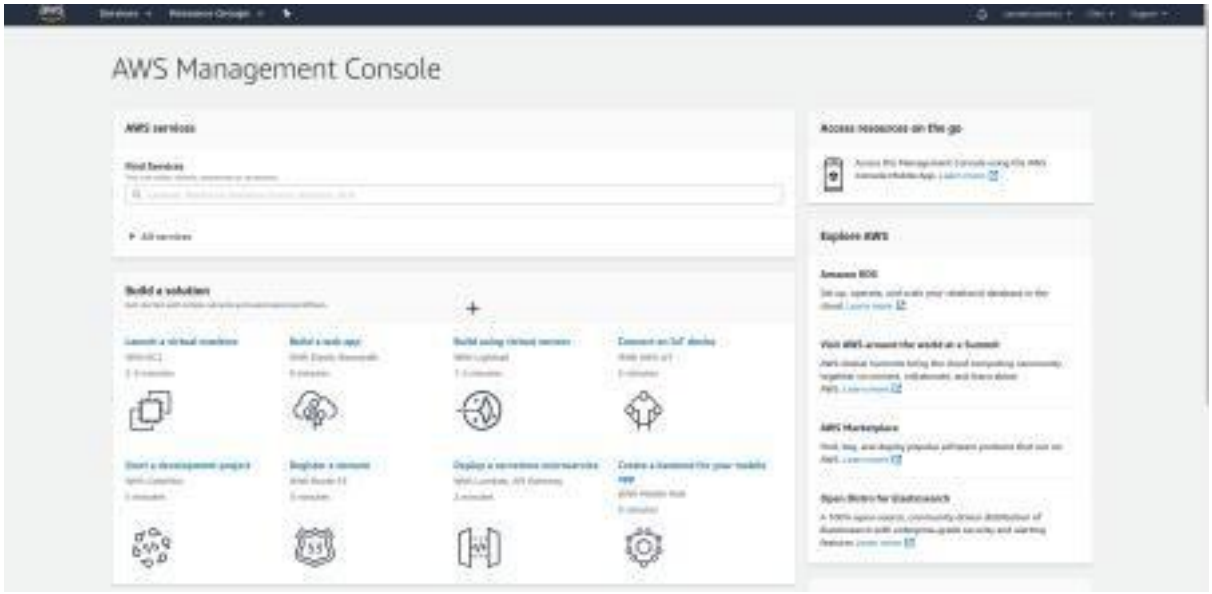
Step 5 – Selecting a Support Plan

In the next step for creating an AWS Account, we need to select the plan for our AWS Account.

Unless you are planning to do some professional development, I would suggest selecting the Basic Plan. It is Free of cost and great for learning purposes.

The other plans are a Developer Plan and a Business Plan. But both of them are paid options. Once you select your plan, you will see the below Welcome screen. From here on, you can Sign in to your AWS Console.

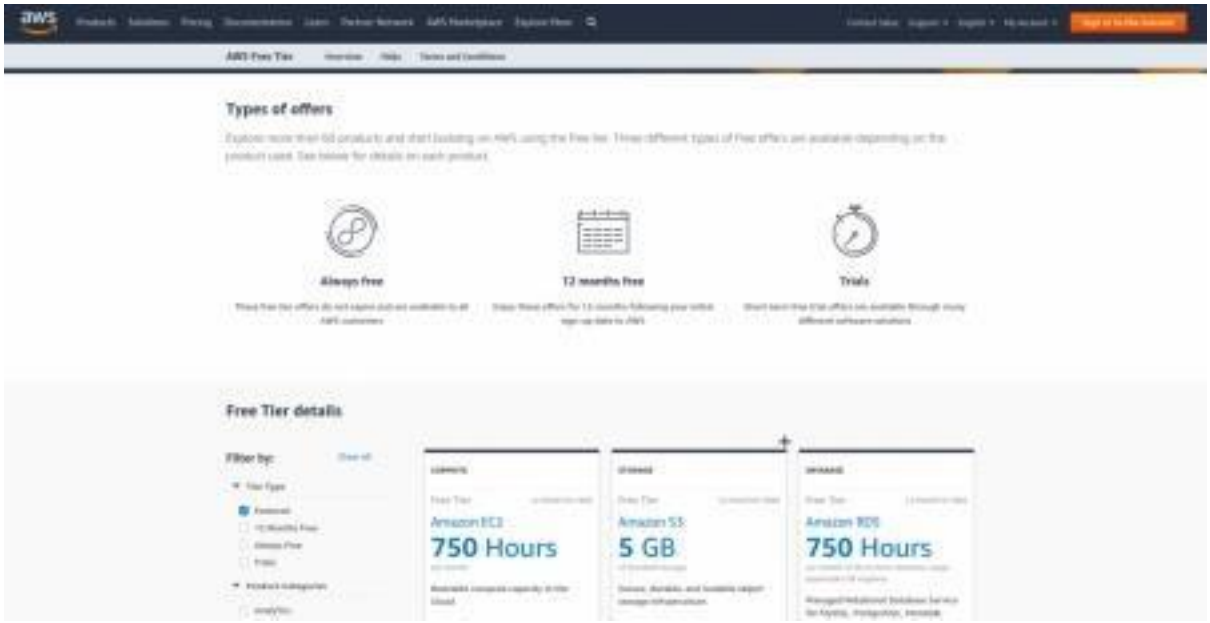
Here, you also have the option of personalising your experience of using Amazon Web Services.
However, you can also simply continue by clicking Sign in to the Console. After this, you will be again presented with the sign in screen where you can now use your credentials to login. Finally, after logging in, you should be able to see the AWS Management Console as below:



If you have reached this far, you have successfully finished Creating an AWS Account.

Understand the AWS Free Tier

The great thing about Amazon Web Services is that you get a free tier when you create an account.
This is extremely useful if you want to learn AWS without spending money on provisioning servers and so on.
However, not all stuff available on AWS qualifies for Free. Also, there are categories such as Always Free and 12 Months Free.
You can get more details about them at this link.

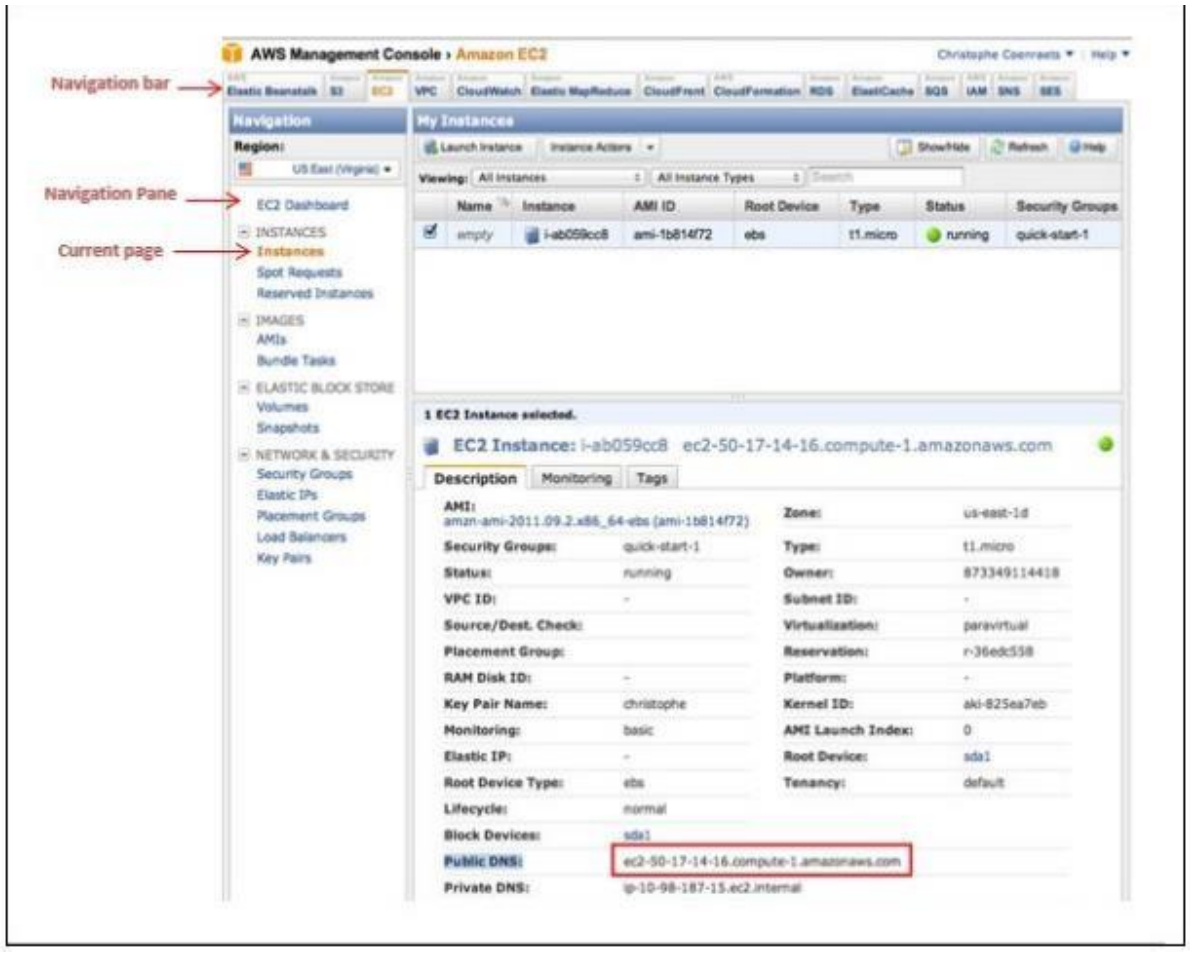


In our series of learning AWS, we will try to keep ourselves within the free tier as much as possible.

Conclusion

We have now successfully finished creating an AWS Account and also verified it so that it can be used to learn AWS.

B] Getting Familiarized with the AWS Console :



Navigation bar -The search box in the navigation bar provides a unified search tool for tracking down AWS services and features, service documentation, and AWS Marketplace.

Navigation Pane -You can also get quick access to any of your applications, get an overview of applications in different states, and track the migration progress over time. To view the main dashboard, choose Dashboard from the navigation pane, which is on the left side of the Migration Hub console homepage.

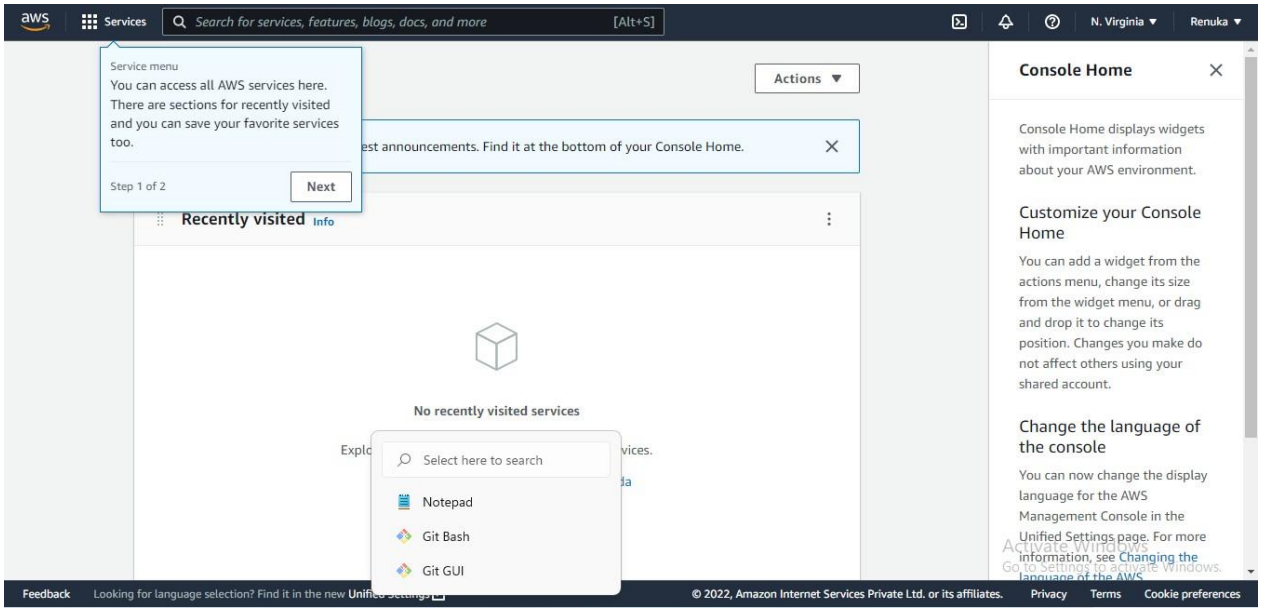
Current Page -An instance is a virtual server in the AWS Cloud. With Amazon EC2, you can set up and configure the operating system and applications that run on your instance.By using AWS EC2 helps users to avoid the investment in hardware up front, so the user can deploy and develop applications easier. It is used to launch many virtual servers, configure

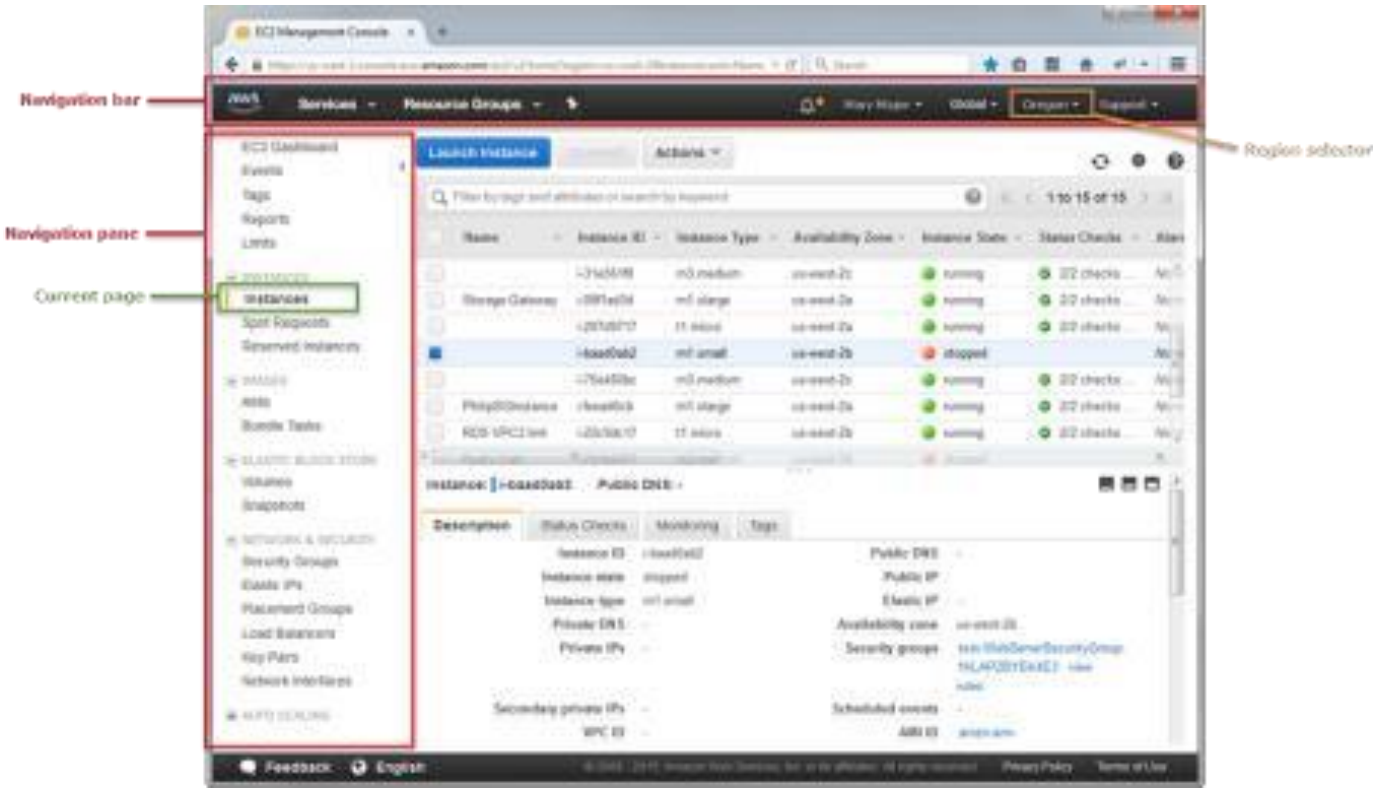
networking and security, and manage storage.

Public DNS- A public (external) IPv4 DNS hostname takes the form ec2-public-ipv4-address.compute-1.amazonaws.com for the us-east-1 Region, and ec2-public-ipv4-address.region.compute.amazonaws.com for other Regions. The Amazon DNS server resolves a public DNS hostname to the public IPv4 address of the instance outside the network of the instance, and to the private IPv4 address of the instance from within the network of the instance. For more information, see Public IPv4 addresses and external DNS hostnames in the Amazon EC2 User Guide for Linux Instances.

Private DNS -You can use the Private IP DNS name (IPv4 only) hostname for communication between instances in the same VPC. You can resolve the Private IP DNS name (IPv4 only) hostnames of other instances in other VPCs as long as the instances are in the same AWS Region and the hostname of the other instance is in the private address space range defined by RFC 1918: 10.0.0.0 - 10.255.255.255 (10/8 prefix), 172.16.0.0 - 172.31.255.255 (172.16/12 prefix), and 192.168.0.0 - 192.168.255.255 (192.168/16 prefix).

Zone - Availability Zones are multiple, isolated locations within each Region.Local Zones provide you the ability to place resources, such as compute and storage, in multiple locations closer to your end users.Wavelength Zones allow developers to build applications that deliver ultra-low latencies to 5G devices and end users. Wavelength deploys standard AWS compute and storage services to the edge of telecommunication carriers' 5G networks.

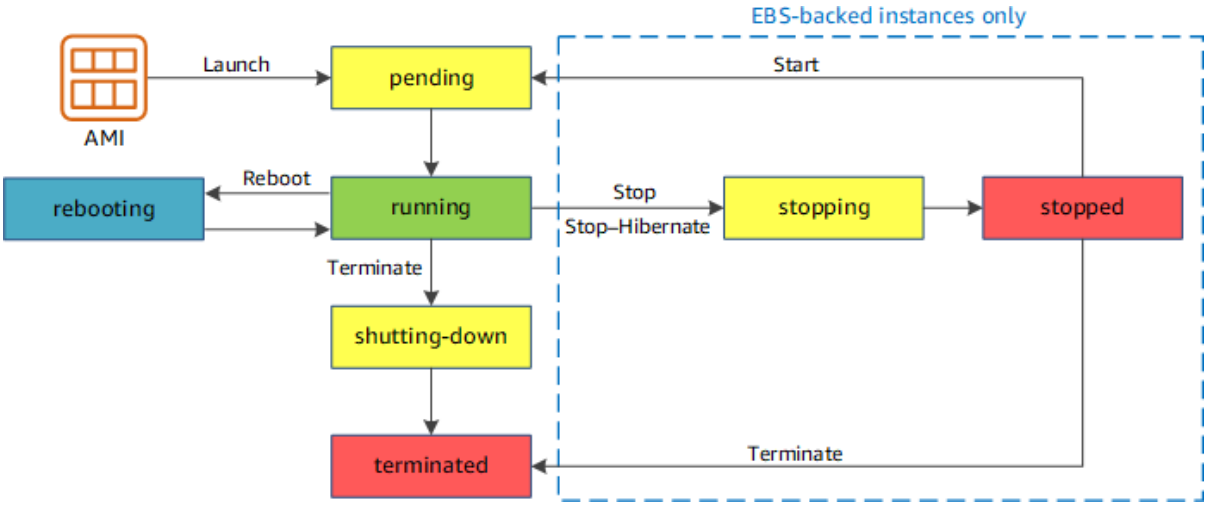

aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Renuka
Service menu
You can access all AWS services here. There are sections for recently visited and you can save your favorite services too.
Step 1 of 2
Next
Actions
est announcements. Find it at the bottom of your Console Home.
Recently visited Info
No recently visited services
Select here to search
Notepad
Git Bash
Git GUI
Console Home
Console Home displays widgets with important information about your AWS environment.
Customize your Console Home
You can add a widget from the actions menu, change its size from the widget menu, or drag and drop it to change its position. Changes you make do not affect others using your shared account.
Change the language of the console
You can now change the display language for the AWS Management Console in the Unified Settings page. For more information, see Changing the language of the AWS
Activate Windows
Go to Settings to activate Windows.
Feedback
Looking for language selection? Find it in the new Unified Setting
© 2022, Amazon Internet Services Private Ltd. or its affiliates.
Privacy
Terms
Cookie preferences


Navigation bar
Navigation pane
Current page
Region selector
Launch Instance
Actions
Instances
Description
Status Checks
Monitoring
Tags
Feedback
English

Description of :

Instance ID : Instance ID **provides a unique ID per instance of your apps**. You can implement Instance ID for Android and iOS apps as well as Chrome apps/extensions

Instance State : The following illustration represents the transitions between instance states. Notice that you can't stop and start an instance store-backed instance. For more information about instance store-backed instances, see Storage for the root device.



Instance state	Description	Instance usage billing
pending	The instance is preparing to enter the running state. An instance enters the pending state when it launches for the first time, or when it is started after being in the stopped state.	Not billed

running	The instance is running and ready for use.	Billed
stopping	The instance is preparing to be stopped or stop-hibernated.	Not billed if preparing to stop Billed if preparing to hibernate
stopped	The instance is shut down and cannot be used. The instance can be started at any time.	Not billed
shutting-down	The instance is preparing to be terminated.	Not billed
terminated	The instance has been permanently deleted and cannot be started.	Not billed **Note** Reserved Instances that applied to terminated instances are billed until the end of their term according to their payment option. For more information, see Reserved Instances

Instance Type:

- General Purpose Instances:Amazon EC2 M6g instances are powered by Arm-based Amazon Web Services Graviton2 processors. They deliver up to 40% better price/performance over current generation M5 instances and offer a balance of compute, memory, and networking resources for a broad set of workloads.
- Compute Optimized Instances:Amazon EC2 C6g instances are powered by Arm-based Amazon Web services Graviton2 processors. They deliver up to 40% better price performance over current generation C5 instances for compute-intensive applications.
- Memory Optimized Instances:Amazon EC2 R6g instances are powered by Arm-based

Amazon Web Services Graviton2 processors. They deliver up to 40% better price performance over current generation R5 instances for memory-intensive applications.

- Storage Optimized Instances:Instances of this family provide very high disk I/O performance or proportionally higher storage density per instance, and are ideally suited for applications that benefit from high sequential I/O performance across very large data sets. Storage-optimized instances also provide high levels of CPU, memory and network performance.
- Accelerated Computing Instances:Instances of this family provide access to workload accelerators such as GPU. They are ideal for applications such as machine learning, computational fluid dynamics, computational finance, seismic analysis, molecular modeling, genomics, and other high-performance computing workloads.
- Micro Instances:Micro instances (t1.micro) provide a small amount of consistent CPU resources and allow you to increase CPU capacity in short bursts when additional cycles are available. They are well suited for lower throughput applications and web sites that require additional compute cycles periodically. You can learn more about how you can use Micro instances and appropriate applications in the Amazon EC2 documentation.

Public DNS: A typical Amazon EC2 public DNS name looks something like this: ec2-12-34-56-78.us-west-2.compute.amazonaws.com , where the name consists of the Amazon Web Services domain, the service (in this case, compute), the region, and a form of the public IP address.

Private IP's: A private IPv4 address is an IP address that's not reachable over the Internet. You can use private IPv4 addresses for communication between instances in the same VPC. For more information about the standards and specifications of private IPv4 addresses, see RFC 1918 .

Security Groups: A security group acts as a virtual firewall, controlling the traffic that is allowed to reach and leave the resources that it is associated with. For example, after you associate a security group with an EC2 instance, it controls the inbound and outbound traffic for the instance.

Description :

1. AWS Management Console: The AWS Management Console is a browser-based GUI for Amazon Web Services (AWS). Through the console, a customer can manage their cloud computing, cloud storage and other resources running on the Amazon Web Services infrastructure.

2. Instances: An instance is a virtual server in the AWS Cloud. With Amazon EC2, you can set up and configure the operating system and applications that run on your instance. When you sign up for AWS, you can get started with Amazon EC2 using the AWS Free Tier .

3. Launch instance: An instance is a virtual server in the AWS Cloud. You launch an instance from an Amazon Machine Image (AMI). The AMI provides the operating system, application server, and applications for your instance.

Practical No. 2

Introduction to AWS Identity and Access Management (IAM)

Aim:

Exploring pre-created IAM Users and Groups

Inspecting IAM policies as applied to the pre-created groups

Following a real-world scenario, adding users to groups with specific capabilities enabled

Locating and using the IAM sign-in URL

Experimenting with the effects of policies on service access

AWS Identity and Access Management

AWS Identity and Access Management (IAM) is a web service that enables Amazon Web Services (AWS) customers to manage users and user permissions in AWS. With IAM, you can centrally manage users, security credentials such as access keys, and permissions that control which AWS resources users can access.

AWS Identity and Access Management (IAM) can be used to:

Manage IAM Users and their access: You can create Users and assign them

individual security credentials (access keys, passwords, and multi-factor authentication devices). You can manage permissions to control which operations a User can perform.

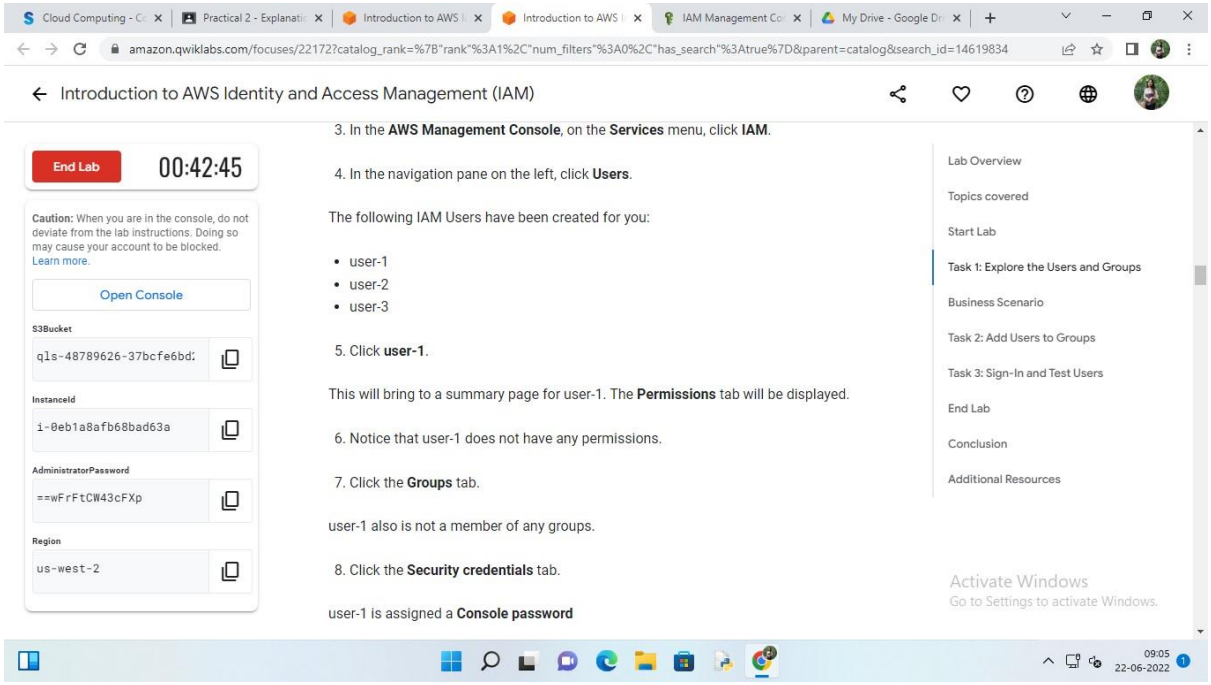
Manage IAM Roles and their permissions: An |AM Role is similar to a User, in that it is an AWS identity with permission policies that determine what the - identity can and cannot do in AWS. However, instead of being uniquely associated with one person, a Role is intended to be assumable by anyone who needs it.

Manage federated users and their permissions: You can enable identity federation to allow existing users in your enterprise to access the AWS Management Console, to call AWS APIs and to access resources, without the need to create an IAM User for each identity.

Task 1: Explore the Users and Groups

In this task, you will explore the Users and Groups that have already been created for you in IAM.

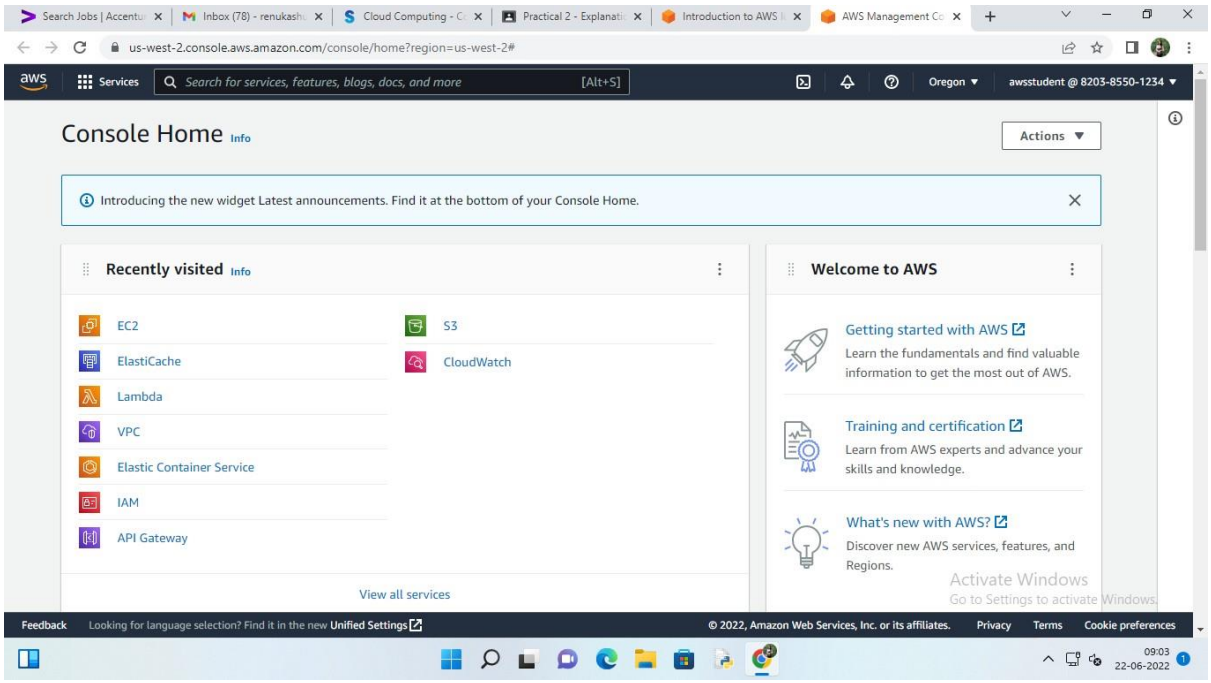
1. Start Lab and Open Console

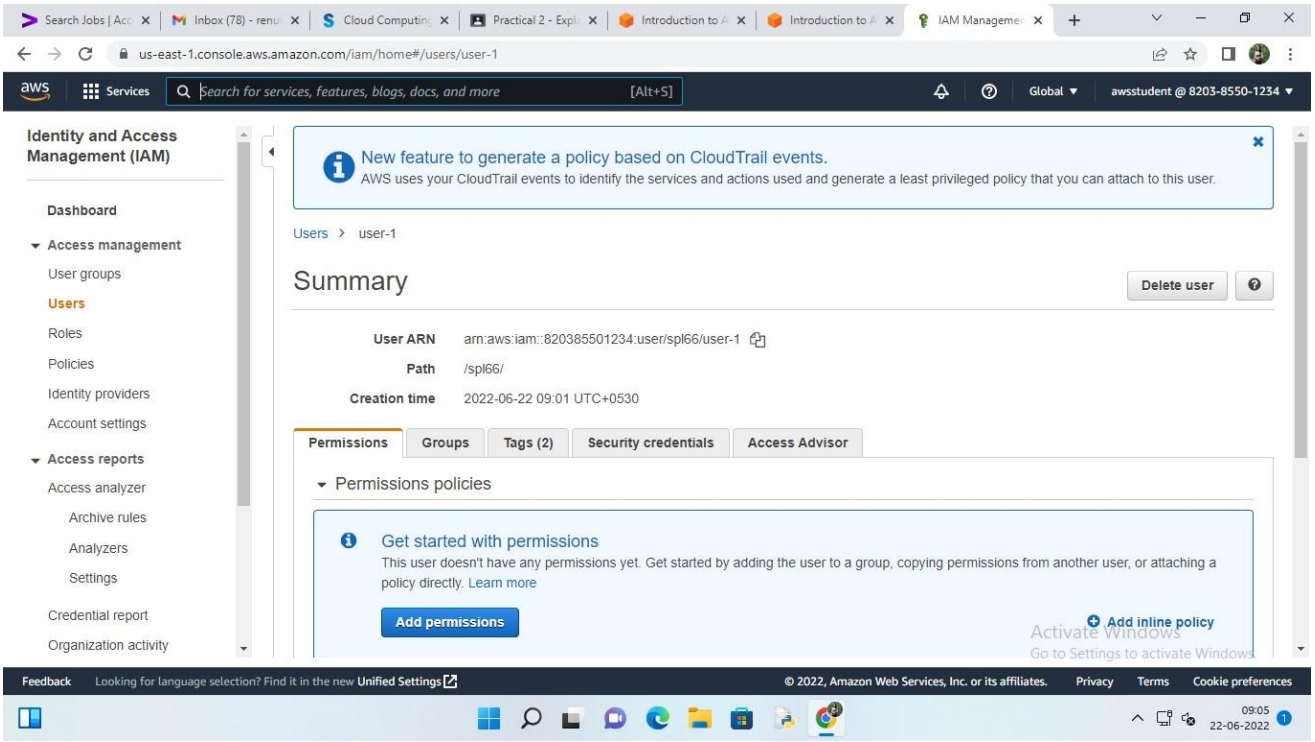


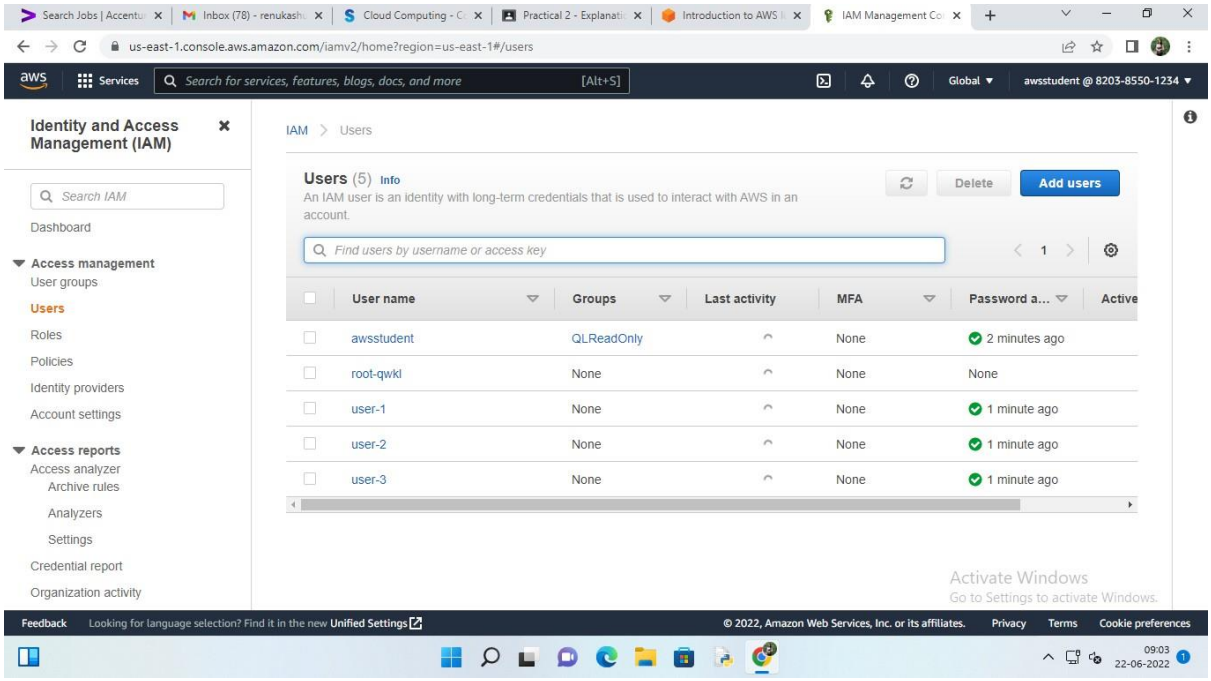
2. If you see the message, You must log out before logging into different AWS account To logout,click here

Click on here(hyperink) to logout.

3. In the AWS Management Console, on the Services menu, click IAM.


us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
Search for services, features, blogs, docs, and more [Alt+S]
Oregon
awsstudent @ 8203-8550-1234
Console Home Info
Actions
Introducing the new widget Latest announcements. Find it at the bottom of your Console Home.
Recently visited Info
EC2
S3
ElastiCache
CloudWatch
Lambda
VPC
Elastic Container Service
IAM
API Gateway
View all services
Welcome to AWS
Getting started with AWS
Learn the fundamentals and find valuable information to get the most out of AWS.
Training and certification
Learn from AWS experts and advance your skills and knowledge.
What's new with AWS?
Discover new AWS services, features, and Regions.
Activate Windows
Go to Settings to activate Windows.
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
09:03
22-06-2022


us-east-1.console.aws.amazon.com/iam/home#/users/user-1
Search for services, features, blogs, docs, and more [Alt+S]
Global
awsstudent @ 8203-8550-1234
Identity and Access Management (IAM)
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
New feature to generate a policy based on CloudTrail events.
AWS uses your CloudTrail events to identify the services and actions used and generate a least privileged policy that you can attach to this user.
Users > user-1
Summary
Delete user
User ARN arn:aws:iam::820385501234:user/spl66/user-1
Path /spl66/
Creation time 2022-06-22 09:01 UTC+0530
Permissions
Groups
Tags (2)
Security credentials
Access Advisor
Permissions policies
Get started with permissions
This user doesn't have any permissions yet. Get started by adding the user to a group, copying permissions from another user, or attaching a policy directly. Learn more
Add permissions
Add inline policy
Activate Windows
Go to Settings to activate Windows.
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
09:05
22-06-2022



4. In the navigation pane on the left, click Users.

The following IAM Users have been created for you:

1.user-1

2.user-2

3.User-3

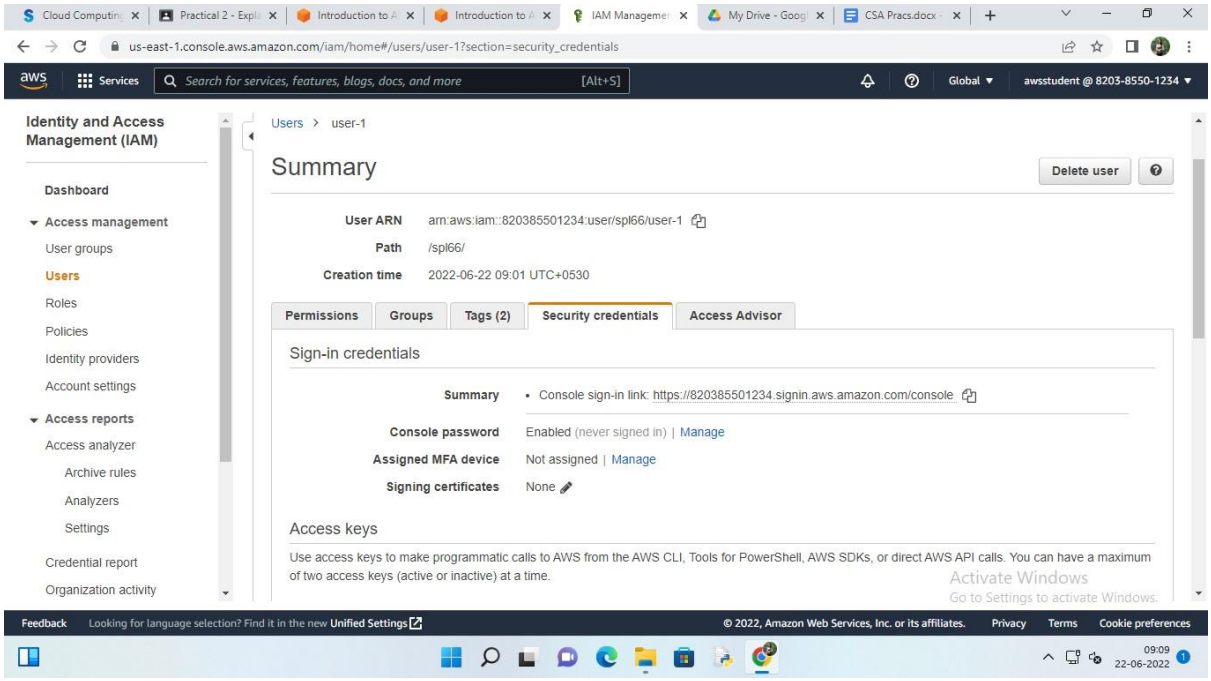
5.Click user-1.

This will bring to a summary page for user-displayed.

6.Notice that user-1 does not have any permissions.

7.Click the Groups tab.

user-1 also is not a member of any groups.



8.Click the Security credentials tab. user-1 is assigned a Console password.

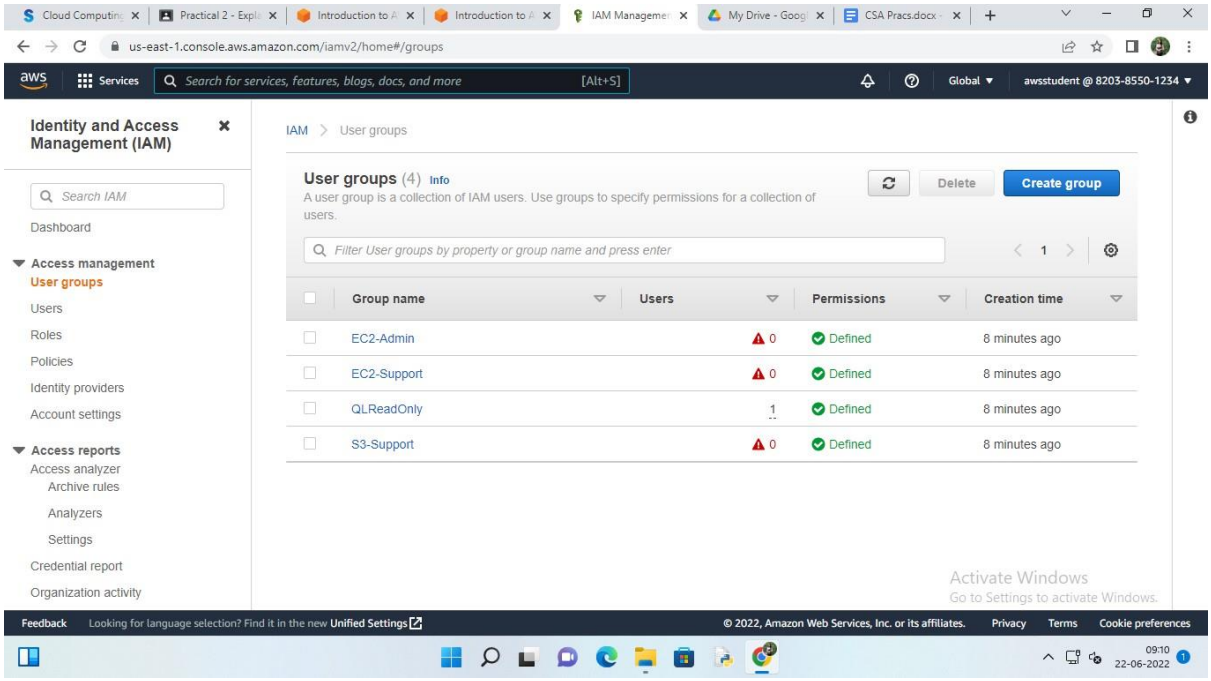
9.In the navigation pane on the left, click Groups.

The following groups have already been created for you:

1.EC2-Admin

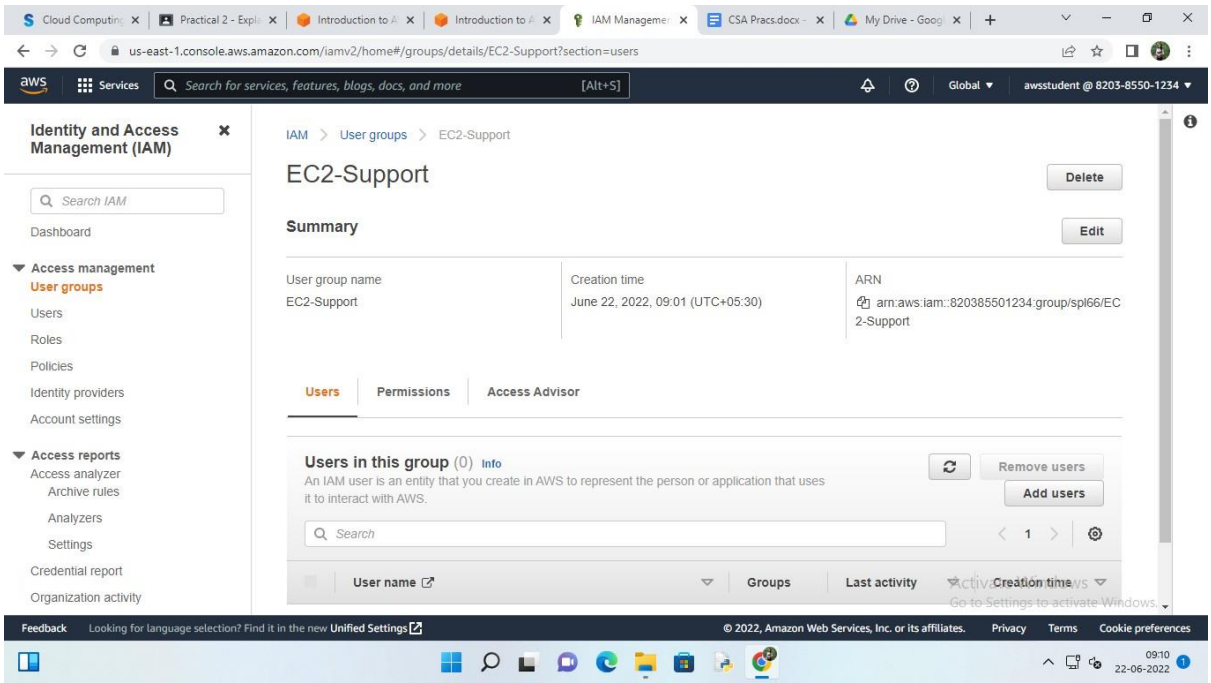
2.EC2-Support

3.S3-Support

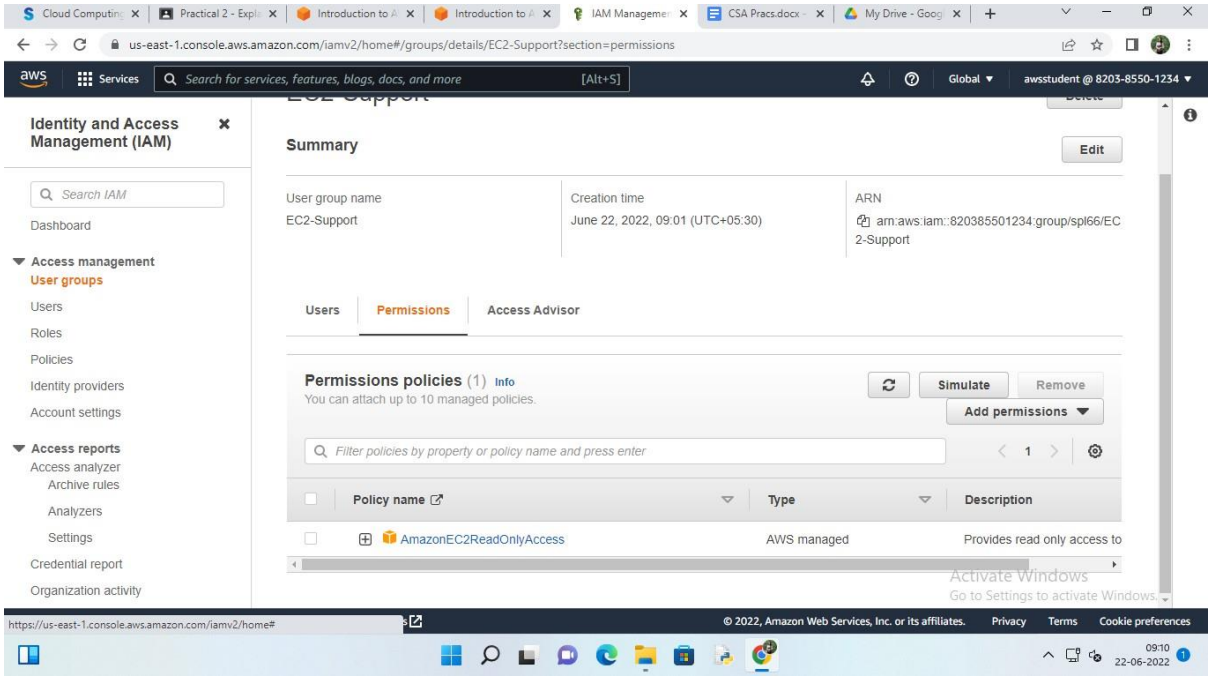


10. Click the EC2-Support group.

11. This will bring you to the summary page for the EC2-Support group.
Click the Permissions tab.



This group has a Managed Policy associated with it, called AmazonEC2ReadOnlyAccess. Managed Policies are pre-built policies (built either by AWS or by your administrators) that can be attached to IAM Users and Groups.



When the policy is updated, the changes to the policy are immediately apply against all Users and Groups that are attached to the policy.

12. Under Actions, click the Show Policy link.

13. A policy defines what actions are allowed or denied for specific AWS resources.

This policy is granting permission to List and Describe information about EC2, Elastic Load Balancing, CloudWatch and Auto Scaling. This ability to view resources, but not modify them, is ideal for assigning to a Support role.

The basic structure of the statements in an IAM Policy is:

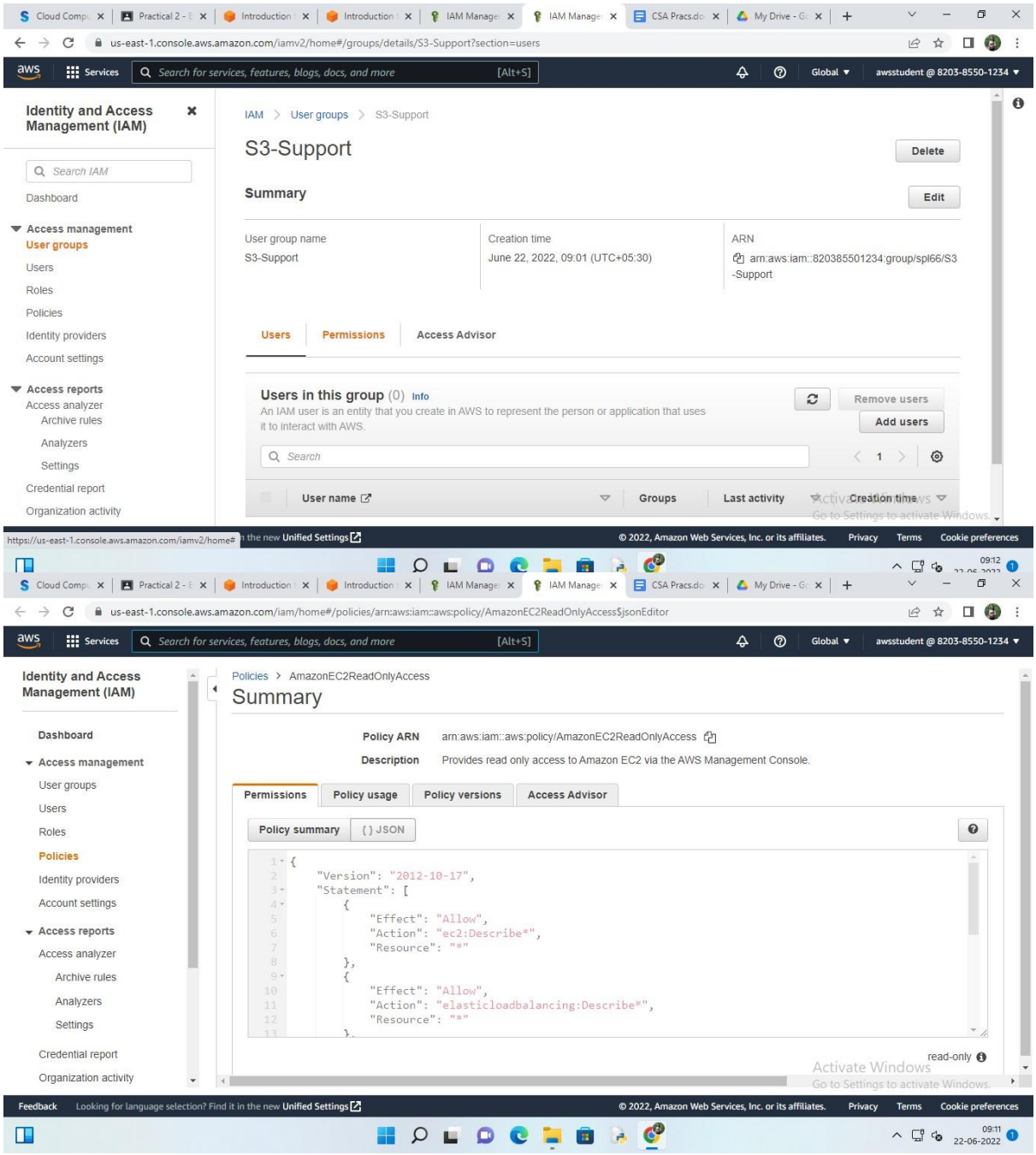
Effect says whether to Allow or Deny the permissions.

Action specifies the API calls that can be made against an AWS Service (e.g. cloudwatch:ListMetrics).

Resource defines the scope of entities covered by the policy rule (eg. a specific Amazon S3 bucket or Amazon EC2 instance, or * which means any resource).

Close the Show Policy window.

14. In the navigation pane on the left, click Groups.



15. Click the S3-Support Group.
16. The S3-Support group has the AmazonS3ReadOnlyAccess policy attached.
17. Below the Actions menu, click the Show Policy link.

This policy has permissions to Get and List resources in Amazon S3.

Close the Show Policy window.

In the navigation pane on the left, click Groups.

18. Since your user is part of the S3-Support Group in IAM, they have permission to view a list of Amazon S3 buckets and their contents.

Now, test whether they have access to Amazon EC2.

In the Services menu, click EC2.

Lab Restarted
Login with a new password and redo all the steps.
Navigate to the region that your lab was launched in by:

19. Clicking the drop-down arrow at the top of the screen, to the left of Support

Selecting the region value that matches the value of Region to the left of these instructions

In the left navigation pane, click Instances.
You cannot see any instances! Instead, it says An error occurred fetching instance data: You are not authorized to perform this operation.. This is because your user has not been assigned any permissions to use Amazon EC2.
You will now sign-in as user-2, who has been hired as your Amazon EC2 support person.

20. Sign user-1 out of the AWS Management Console by configuring the following:
At the top of the screen, click user-1
Click Sign Out
Paste the IAM users sign-in link into your private window and press Enter. This links should be in your text editor.

Sign-in with:
lAMuser name: user-2
Password: Paste the value of AdministratorPassword located to the left of these instructions.
In the Services menu, click EC2.

Navigate to the region that your lab was launched in by:

21. Clicking the drop-down arrow at the top of the screen, to the left of Support
Selecting the region value that matches the value of Region to the left of these instructions
You are now able to see an Amazon EC2 instance because you have Read Only permissions. However, you will not be able to make any changes to Amazon EC2 resources.
Your EC2 instance should be selected. If it is not selected, select it.

In the Actions menu, click Instance State > Stop.
In the Stop Instances window, click Yes, Stop.

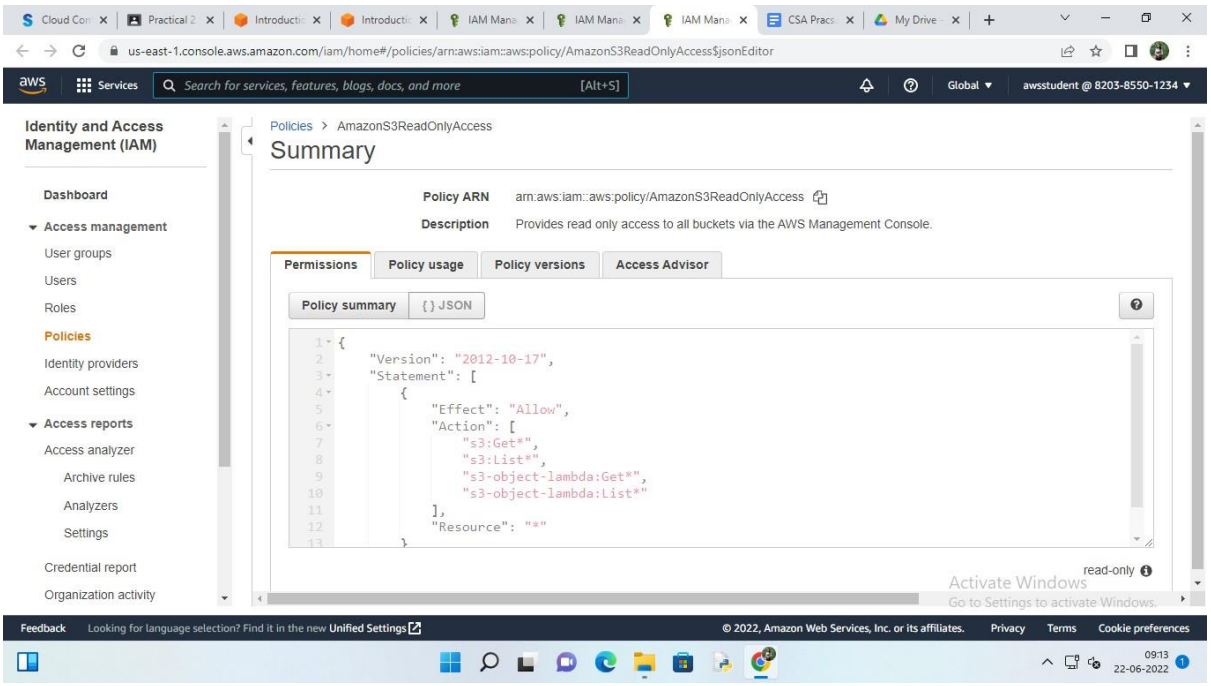
22. You will receive an error stating You are not authorized to perform this operation. This demonstrates that the policy only allows you to information, without making changes.
At the Stop Instances window, click Cancel. Next, check if user-2 can access Amazon S3.

In the Services, click S3.
You will receive an Error hace Denied because user-2 does not have permission to use Amazon S3.

You will now sign-in as user-3, who has been hired as your Amazon EC2 administrator.

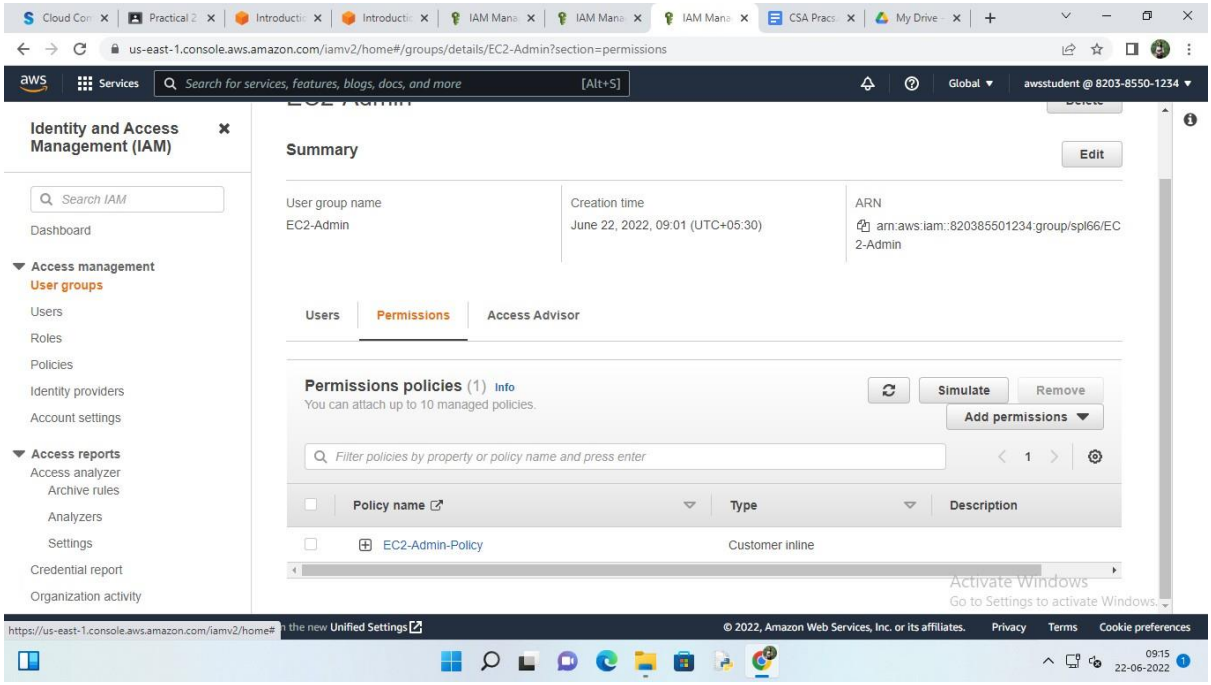
Sign user-2 out of the AWS Management Console by configuring the following:

At the top of the screen, click user-2.
Click Sign Out.



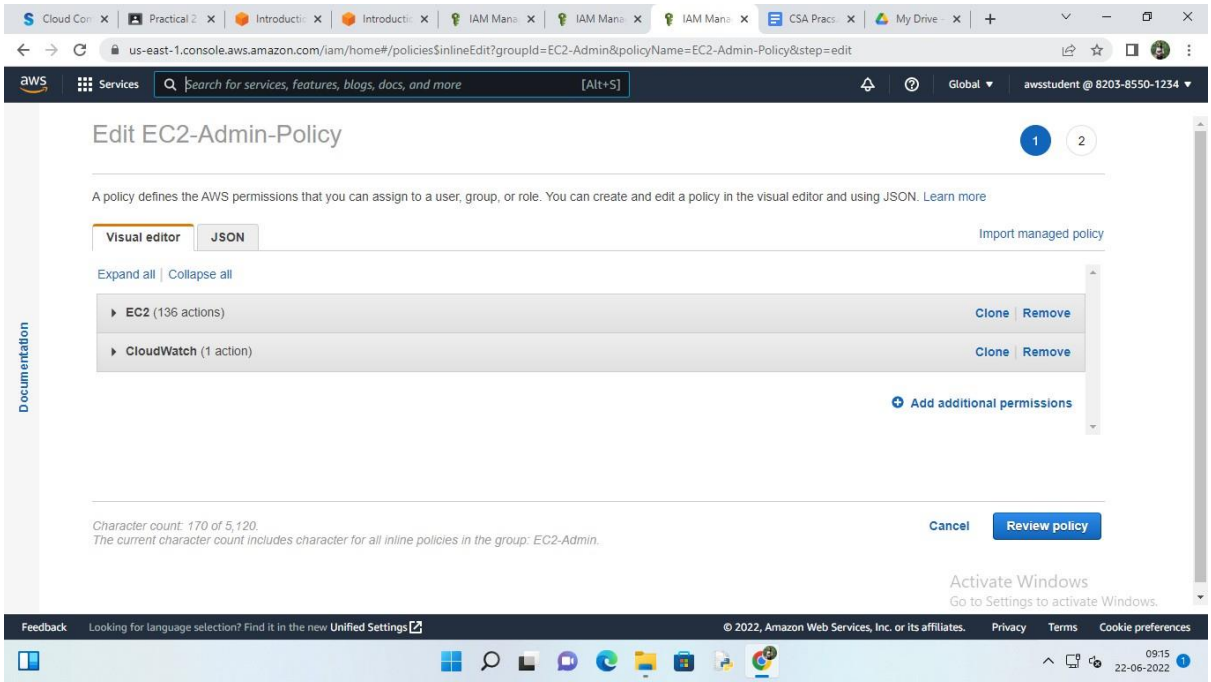
23. Paste the IAM users sign-in link into your private window and press Enter.
Paste the sign-in link into your web browser address bar again. If it is not in your clipboard, retrieve it from the text editor where you stored it earlier.
Sign-in with:
IAM username: user-3
Password: Paste the value of AdministratorPassword located to the left of these instructions.
In the Services menu, click EC2.

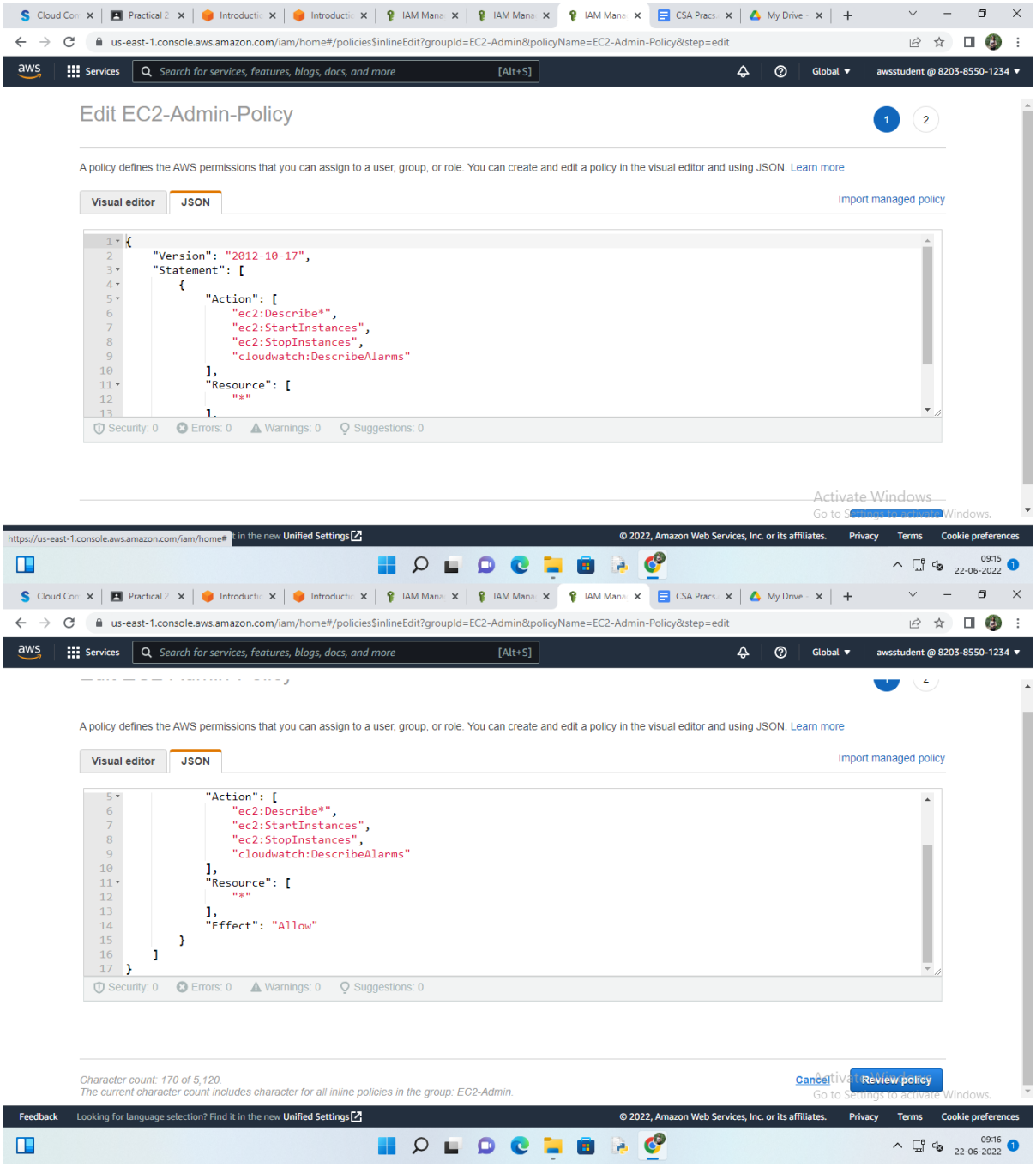
Navigate to the region that your lab was launched in by:
Clicking the drop-down arrow at the top of the screen, to the left of Support
Selecting the region value that matches the value of Region to the left of these instructions
24.In the navigation pane on the left, click Instances.
As an EC2 Administrator, you should now have permissions to Stop the Amazon EC2 instance.
Your EC2 instance should be selected. If it is not, please select it.



In the Actions menu, click Instance State > Stop

In the Stop Instances window, click Yes, Stop.
The instance will enter the stopping state and will shut down.




us-east-1.console.aws.amazon.com/iam/home#/policies$inlineEdit?groupId=EC2-Admin&policyName=EC2-Admin-Policy&step=edit
Edit EC2-Admin-Policy
A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. Learn more
Visual editor
JSON
Import managed policy
{
"Version": "2012-10-17",
"Statement": [
{
"Action": [
"ec2:Describe*",
"ec2:StartInstances",
"ec2:StopInstances",
"cloudwatch:DescribeAlarms"
],
"Resource": [
"*"
],
"Effect": "Allow"
}
]
}
Security: 0
Errors: 0
Warnings: 0
Suggestions: 0
Character count: 170 of 5,120.
The current character count includes character for all inline policies in the group: EC2-Admin.
Cancel
Review policy
Feedback
Looking for language selection? Find it in the new Unified Settings
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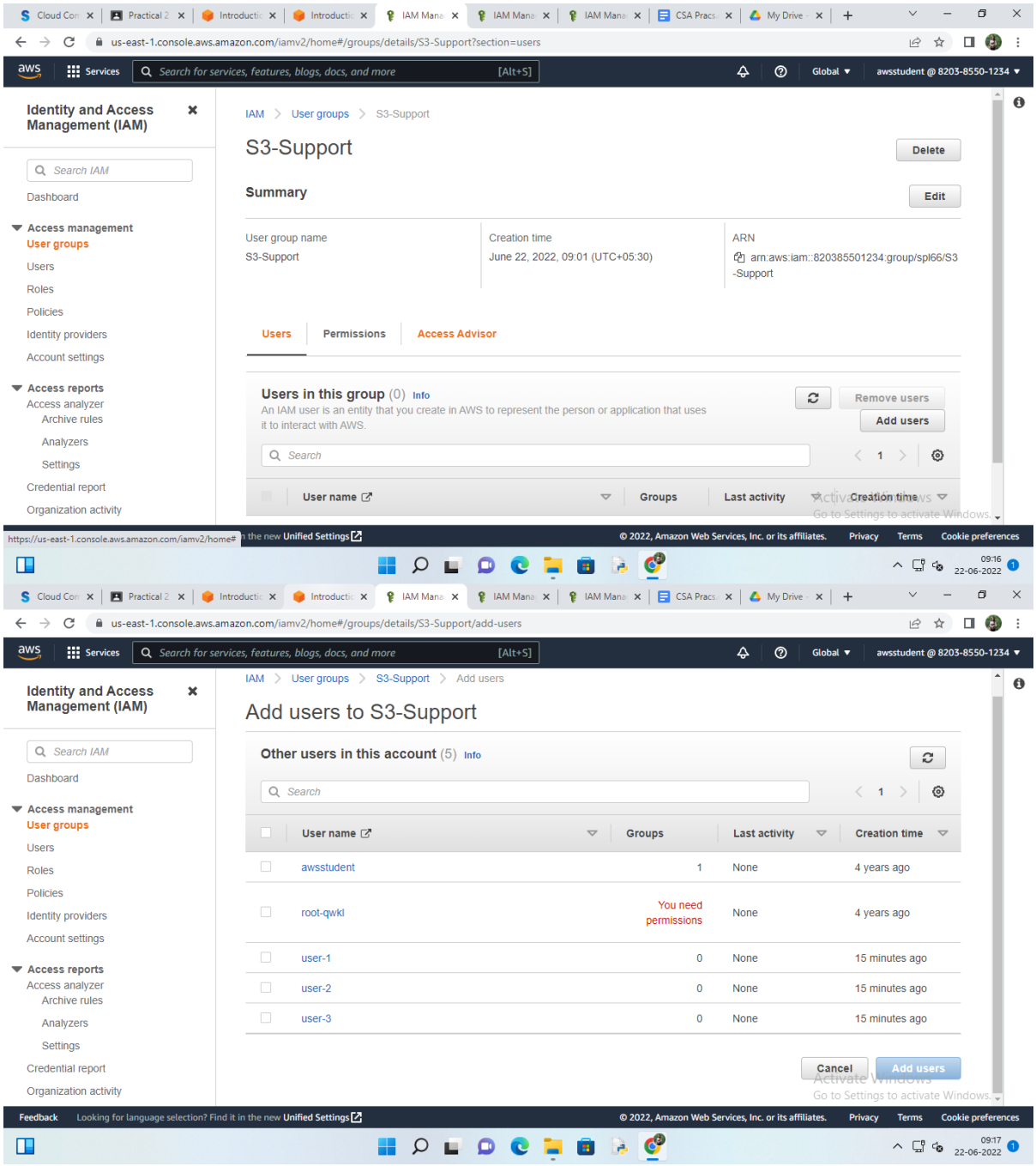
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/S3-Support?section=users
Identity and Access Management (IAM)
IAM > User groups > S3-Support
S3-Support
Delete
Summary
Edit
User group name
S3-Support
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/S3-Support
Users
Permissions
Access Advisor
Users in this group (0) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
Search
User name
Groups
Last activity
Creation time
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/S3-Support/add-users
IAM > User groups > S3-Support > Add users
Add users to S3-Support
Other users in this account (5) Info
awsstudent 1 None 4 years ago
root-qwkl You need permissions None 4 years ago
user-1 0 None 15 minutes ago
user-2 0 None 15 minutes ago
user-3 0 None 15 minutes ago
Cancel
Add users
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
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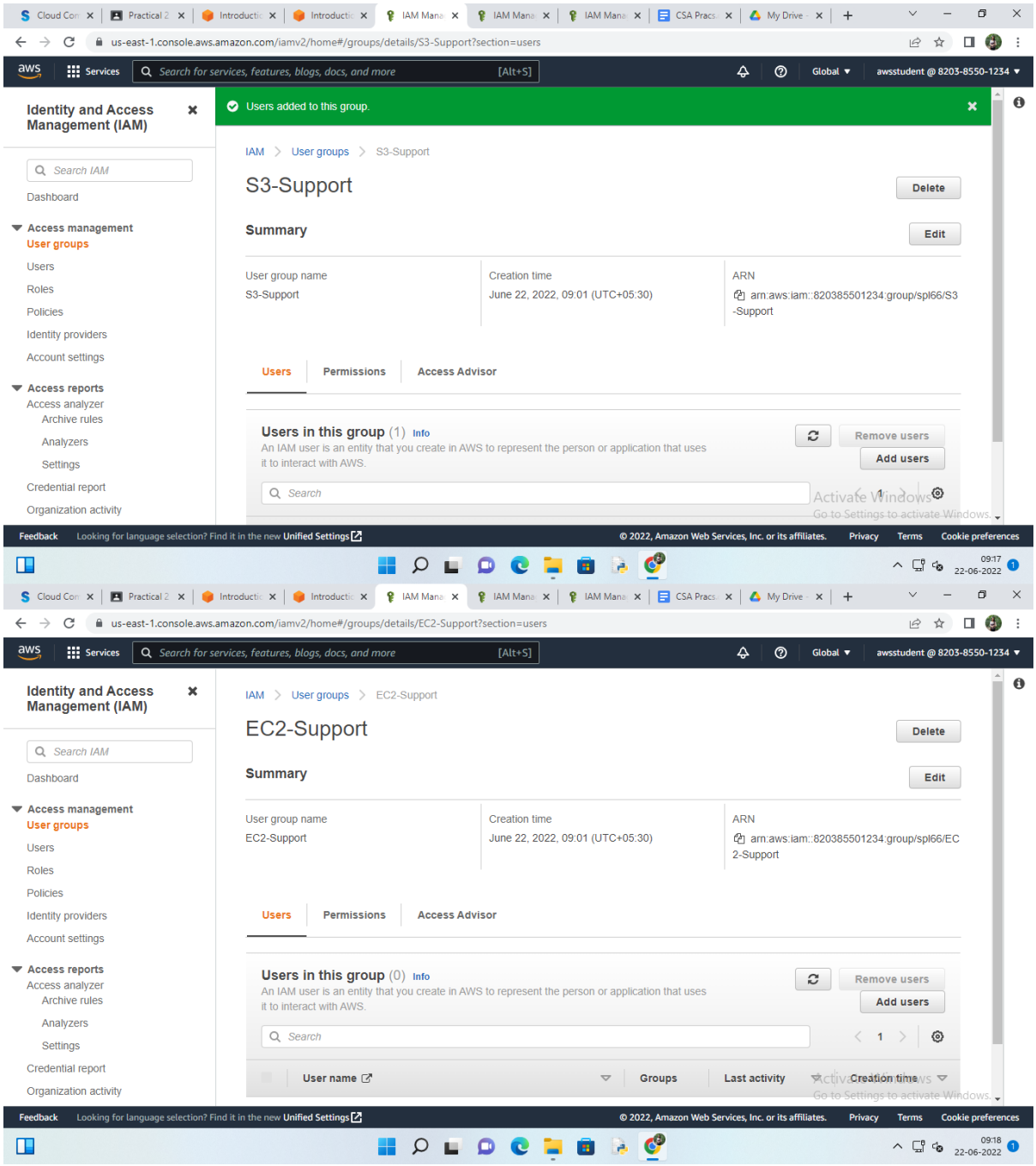
Terms
Cookie preferences


us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/S3-Support?section=users
Identity and Access Management (IAM)
Users added to this group.
IAM > User groups > S3-Support
S3-Support
Delete
Summary
Edit
User group name
S3-Support
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/S3-Support
Users
Permissions
Access Advisor
Users in this group (1) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Support?section=users
IAM > User groups > EC2-Support
EC2-Support
Delete
Summary
Edit
User group name
EC2-Support
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/EC2-Support
Users
Permissions
Access Advisor
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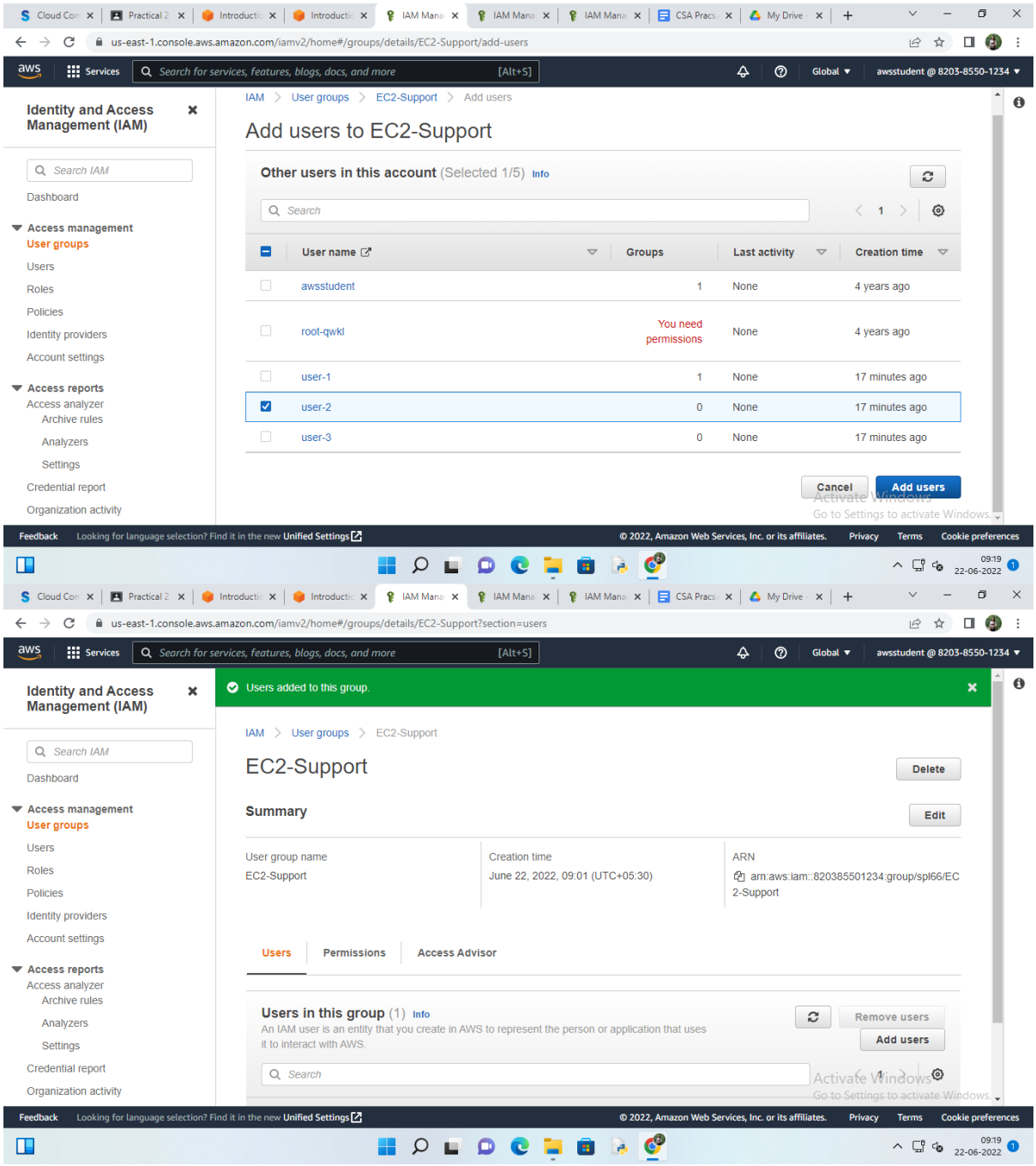
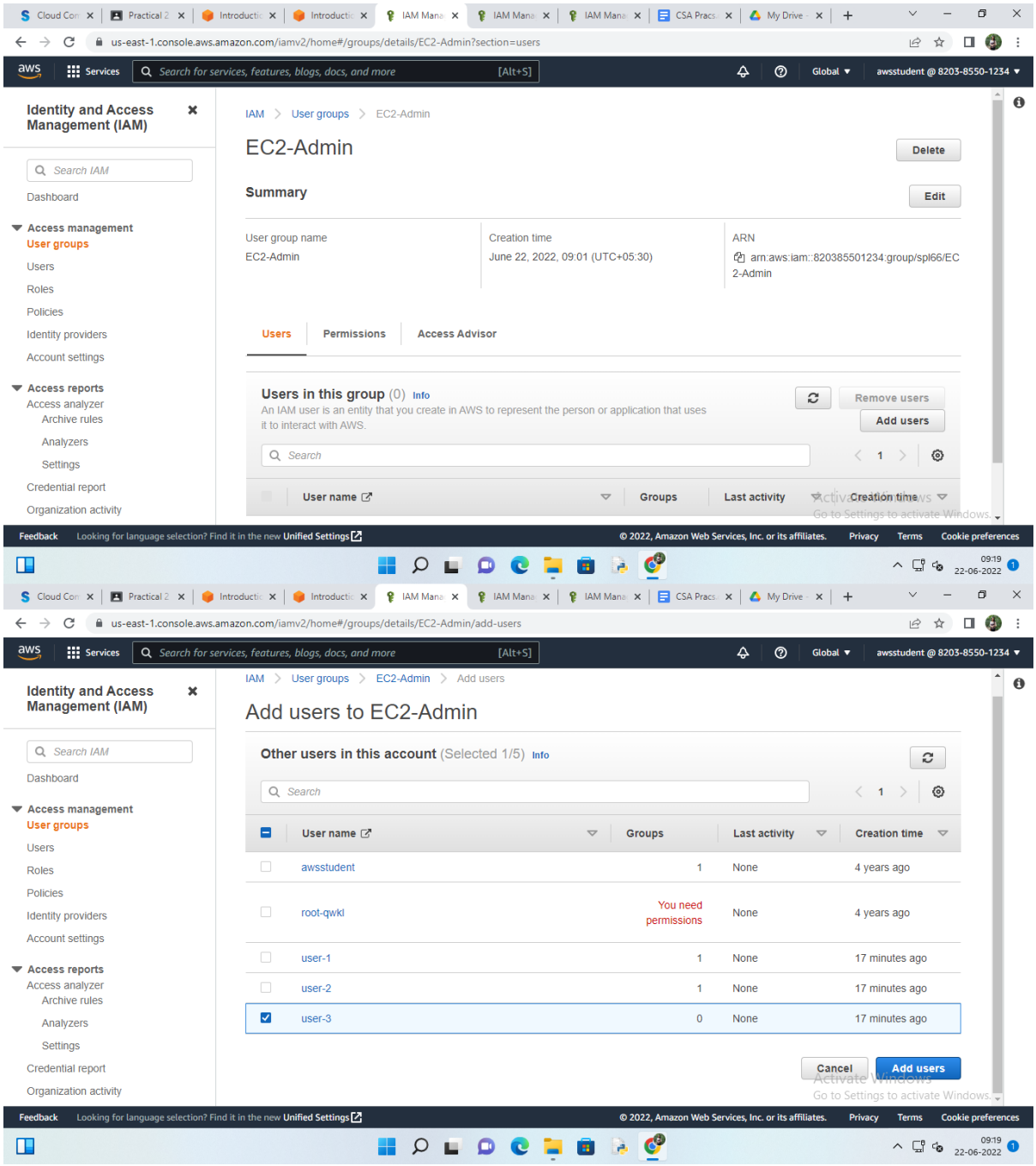
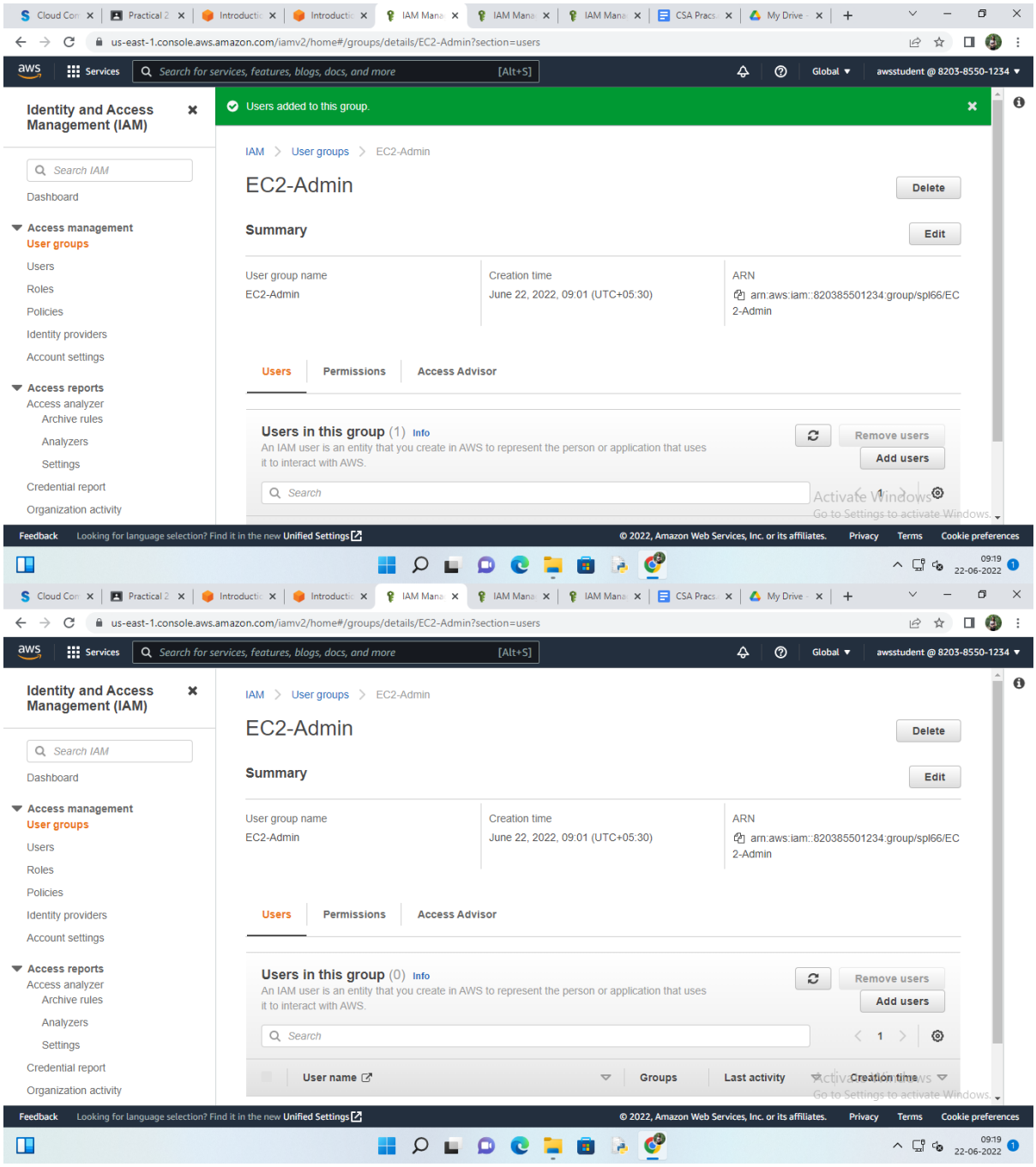
Remove users
Add users
User name
Groups
Last activity
Creation time


us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Support/add-users
Identity and Access Management (IAM)
IAM > User groups > EC2-Support > Add users
Add users to EC2-Support
Other users in this account (Selected 1/5) Info
User name
Groups
Last activity
Creation time
awsstudent
root-qwkl
You need permissions
user-1
user-2
user-3
Cancel
Add users
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Support?section=users
Users added to this group.
EC2-Support
Delete
Summary
Edit
User group name
EC2-Support
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/EC2-Support
Users
Permissions
Access Advisor
Users in this group (1) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users


us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Admin?section=users
Identity and Access Management (IAM)
IAM > User groups > EC2-Admin
EC2-Admin
Delete
Summary
Edit
User group name
EC2-Admin
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/EC2-Admin
Users
Permissions
Access Advisor
Users in this group (0) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
Search
User name
Groups
Last activity
Creation time
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Admin/add-users
IAM > User groups > EC2-Admin > Add users
Add users to EC2-Admin
Other users in this account (Selected 1/5) Info
awsstudent 1 None 4 years ago
root-qwkl You need permissions None 4 years ago
user-1 1 None 17 minutes ago
user-2 1 None 17 minutes ago
user-3 0 None 17 minutes ago
Cancel
Add users


us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Admin?section=users
Identity and Access Management (IAM)
Users added to this group.
IAM > User groups > EC2-Admin
EC2-Admin
Delete
Summary
Edit
User group name
EC2-Admin
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/EC2-Admin
Users
Permissions
Access Advisor
Users in this group (1) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users
Search
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Users in this group (0) Info
User name
Groups
Last activity
Creation time
Feedback
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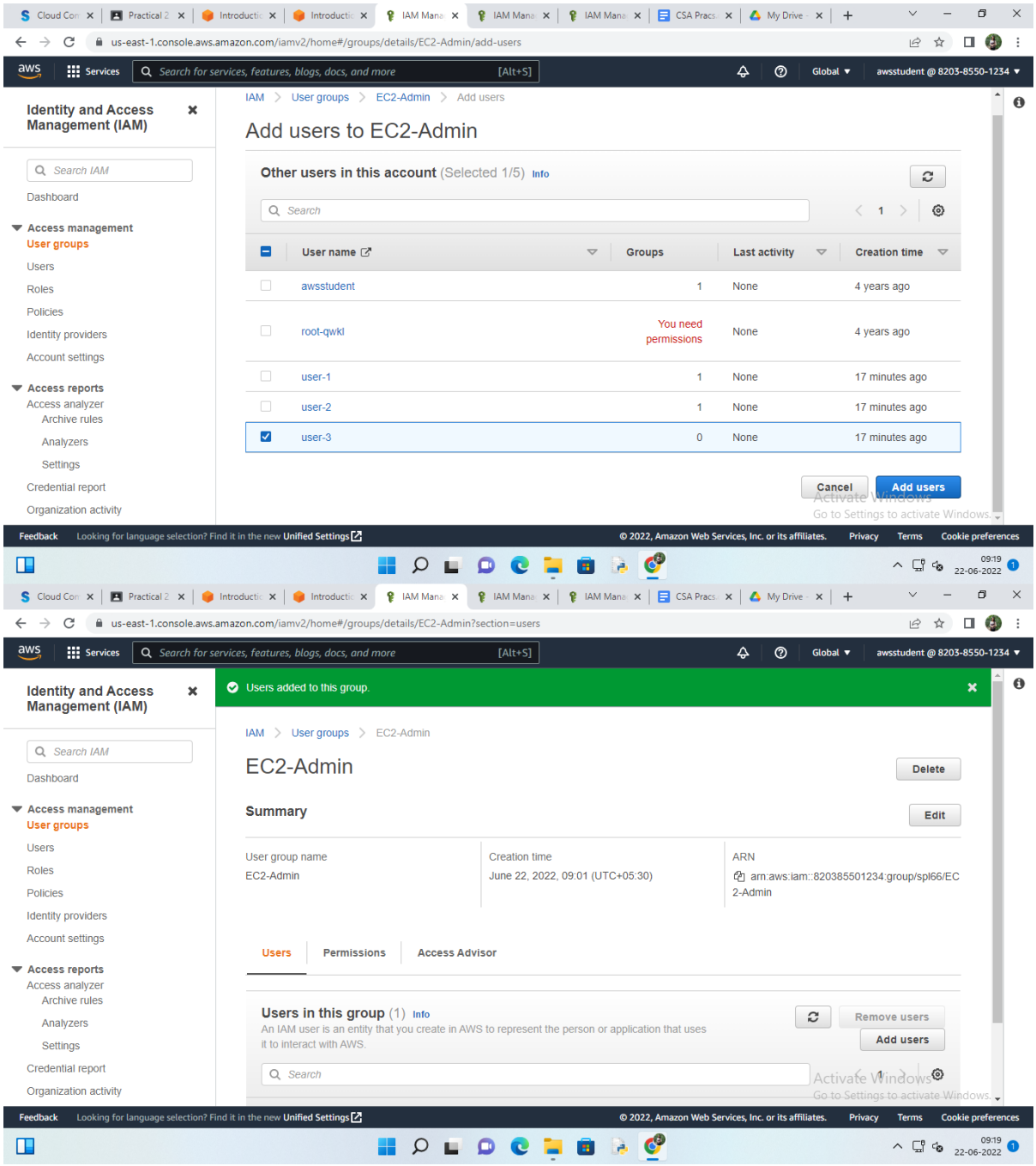
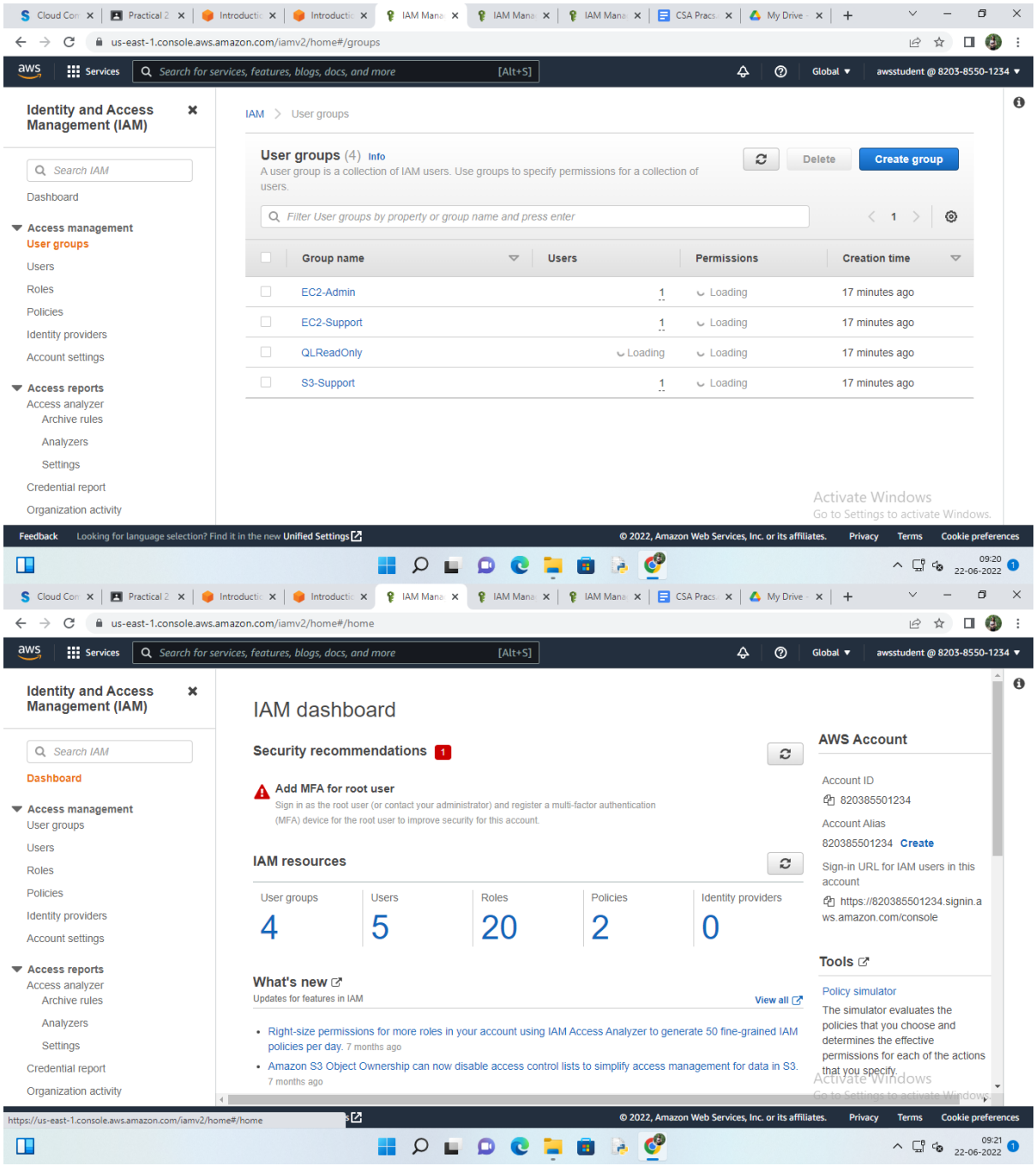

us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Admin/add-users
Identity and Access Management (IAM)
IAM > User groups > EC2-Admin > Add users
Add users to EC2-Admin
Other users in this account (Selected 1/5) Info
User name
Groups
Last activity
Creation time
awsstudent
root-qwkl
user-1
user-2
user-3
Cancel
Add users
us-east-1.console.aws.amazon.com/iamv2/home#/groups/details/EC2-Admin?section=users
Users added to this group.
EC2-Admin
Delete
Summary
Edit
User group name
EC2-Admin
Creation time
June 22, 2022, 09:01 (UTC+05:30)
ARN
arn:aws:iam::820385501234:group/spl66/EC2-Admin
Users
Permissions
Access Advisor
Users in this group (1) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove users
Add users


us-east-1.console.aws.amazon.com/iamv2/home#/groups
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
IAM > User groups
User groups (4) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.
Delete
Create group
Filter User groups by property or group name and press enter
Group name
Users
Permissions
Creation time
EC2-Admin 1 Loading 17 minutes ago
EC2-Support 1 Loading 17 minutes ago
QLReadOnly Loading Loading 17 minutes ago
S3-Support 1 Loading 17 minutes ago
Activate Windows
Go to Settings to activate Windows.
Feedback
Looking for language selection? Find it in the new Unified Settings
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Cookie preferences
us-east-1.console.aws.amazon.com/iamv2/home#/home
IAM dashboard
Security recommendations 1
Add MFA for root user
Sign in as the root user (or contact your administrator) and register a multi-factor authentication (MFA) device for the root user to improve security for this account.
IAM resources
User groups 4
Users 5
Roles 20
Policies 2
Identity providers 0
What's new
Updates for features in IAM
View all
Right-size permissions for more roles in your account using IAM Access Analyzer to generate 50 fine-grained IAM policies per day. 7 months ago
Amazon S3 Object Ownership can now disable access control lists to simplify access management for data in S3. 7 months ago
AWS Account
Account ID
820385501234
Account Alias
820385501234 Create
Sign-in URL for IAM users in this account
https://820385501234.signin.aws.amazon.com/console
Tools
Policy simulator
The simulator evaluates the policies that you choose and determines the effective permissions for each of the actions that you specify.
Activate Windows
Go to Settings to activate Windows.
https://us-east-1.console.aws.amazon.com/iamv2/home#/home
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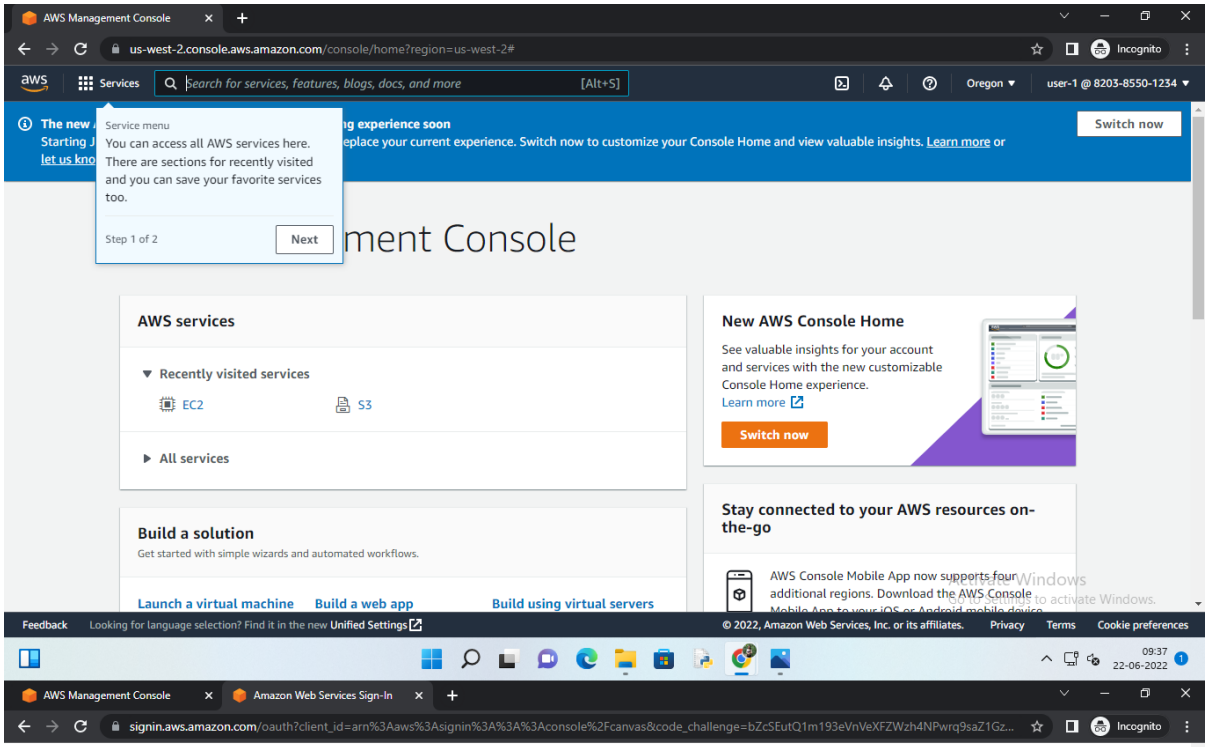
AWS Management Console
us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
Search for services, features, blogs, docs, and more [Alt+S]
Oregon
user-1 @ 8203-8550-1234
Service menu
You can access all AWS services here. There are sections for recently visited and you can save your favorite services too.
Step 1 of 2
Next
Switch now
AWS services
Recently visited services
EC2
S3
All services
New AWS Console Home
See valuable insights for your account and services with the new customizable Console Home experience.
Learn more
Switch now
Build a solution
Get started with simple wizards and automated workflows.
Launch a virtual machine
Build a web app
Build using virtual servers
Stay connected to your AWS resources on-the-go
AWS Console Mobile App now supports four additional regions. Download the AWS Console
Feedback
Looking for language selection? Find it in the new Unified Settings
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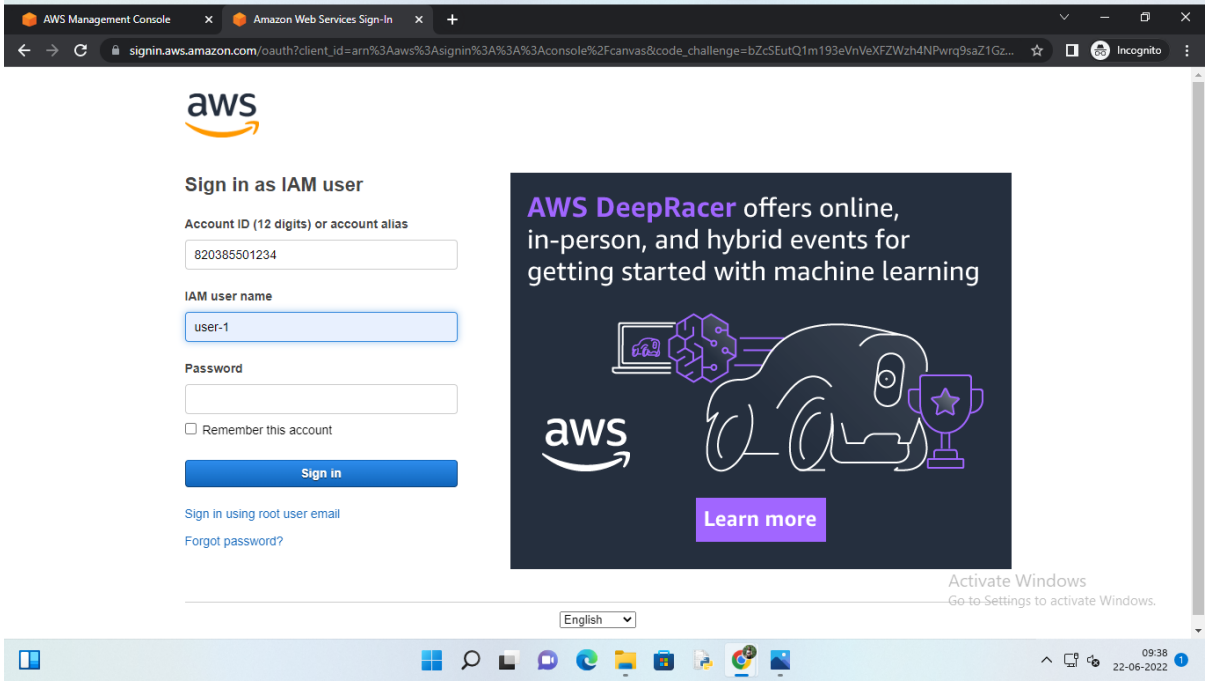
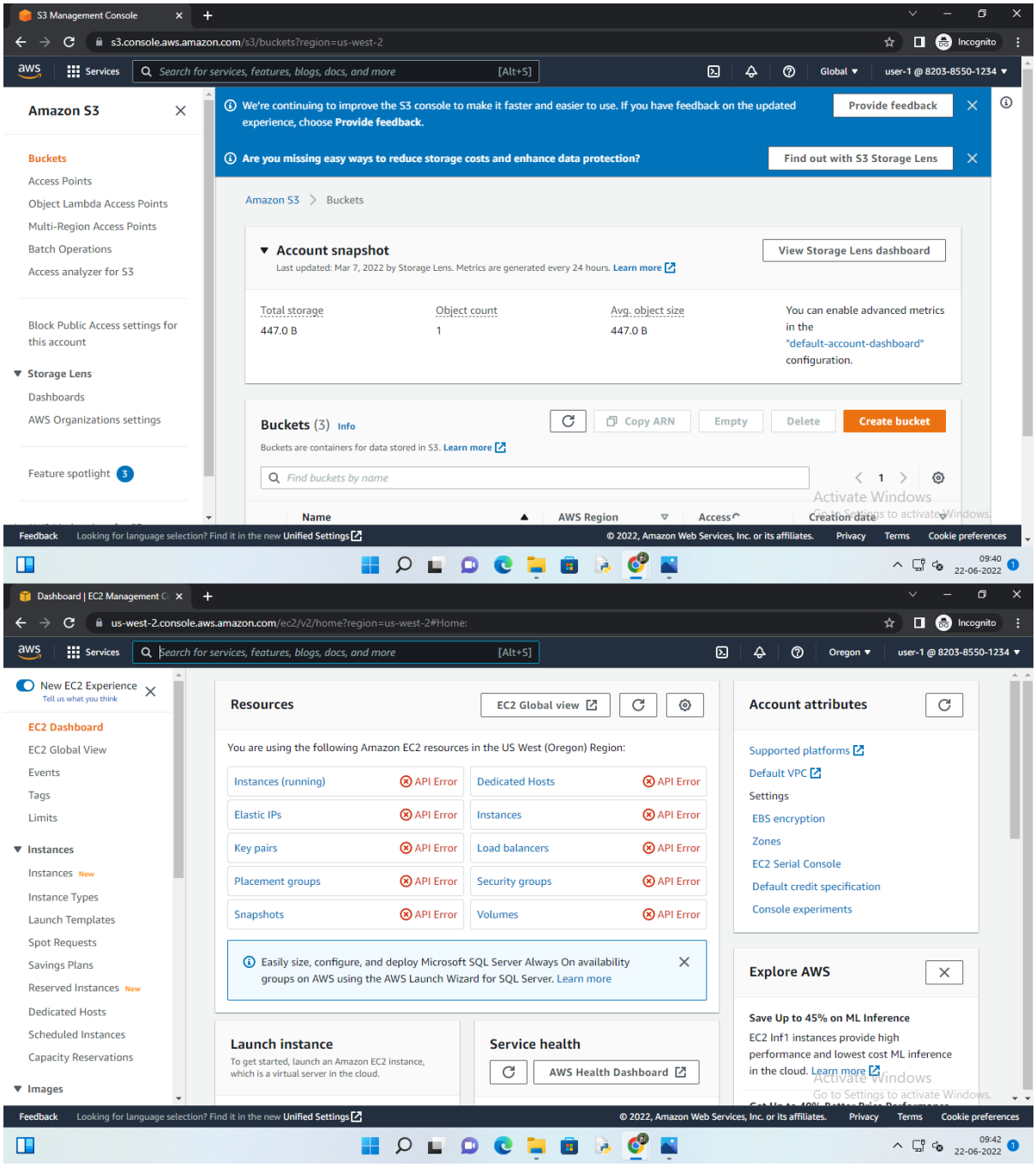

AWS Management Console
Amazon Web Services Sign-In
signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=bZcSEutQ1m193eVnVeXFZWzh4NPwrq9saZ1Gz...
Sign in as IAM user
Account ID (12 digits) or account alias
820385501234
IAM user name
user-1
Password
Remember this account
Sign in
Sign in using root user email
Forgot password?
AWS DeepRacer offers online, in-person, and hybrid events for getting started with machine learning
Learn more
English


S3 Management Console
s3.console.aws.amazon.com/s3/buckets?region=us-west-2
Amazon S3
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Are you missing easy ways to reduce storage costs and enhance data protection?
Find out with S3 Storage Lens
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
Amazon S3 > Buckets
Account snapshot
Last updated: Mar 7, 2022 by Storage Lens. Metrics are generated every 24 hours. Learn more
View Storage Lens dashboard
Total storage
447.0 B
Object count
1
Avg. object size
447.0 B
You can enable advanced metrics in the "default-account-dashboard" configuration.
Buckets (3) Info
Buckets are containers for data stored in S3. Learn more
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
Name
AWS Region
Access
Creation date
Activate Windows
Feedback
Looking for language selection? Find it in the new Unified Settings
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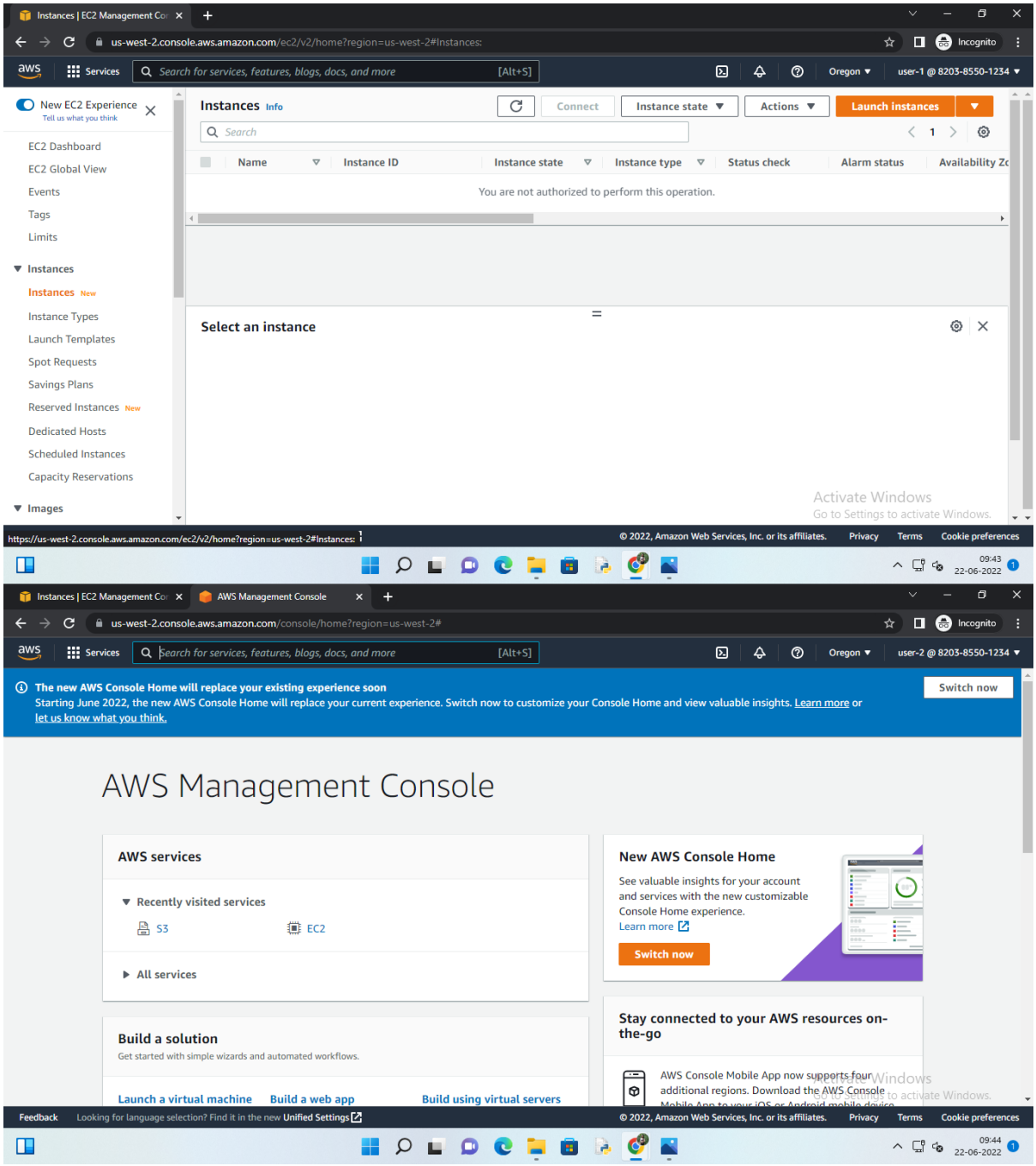
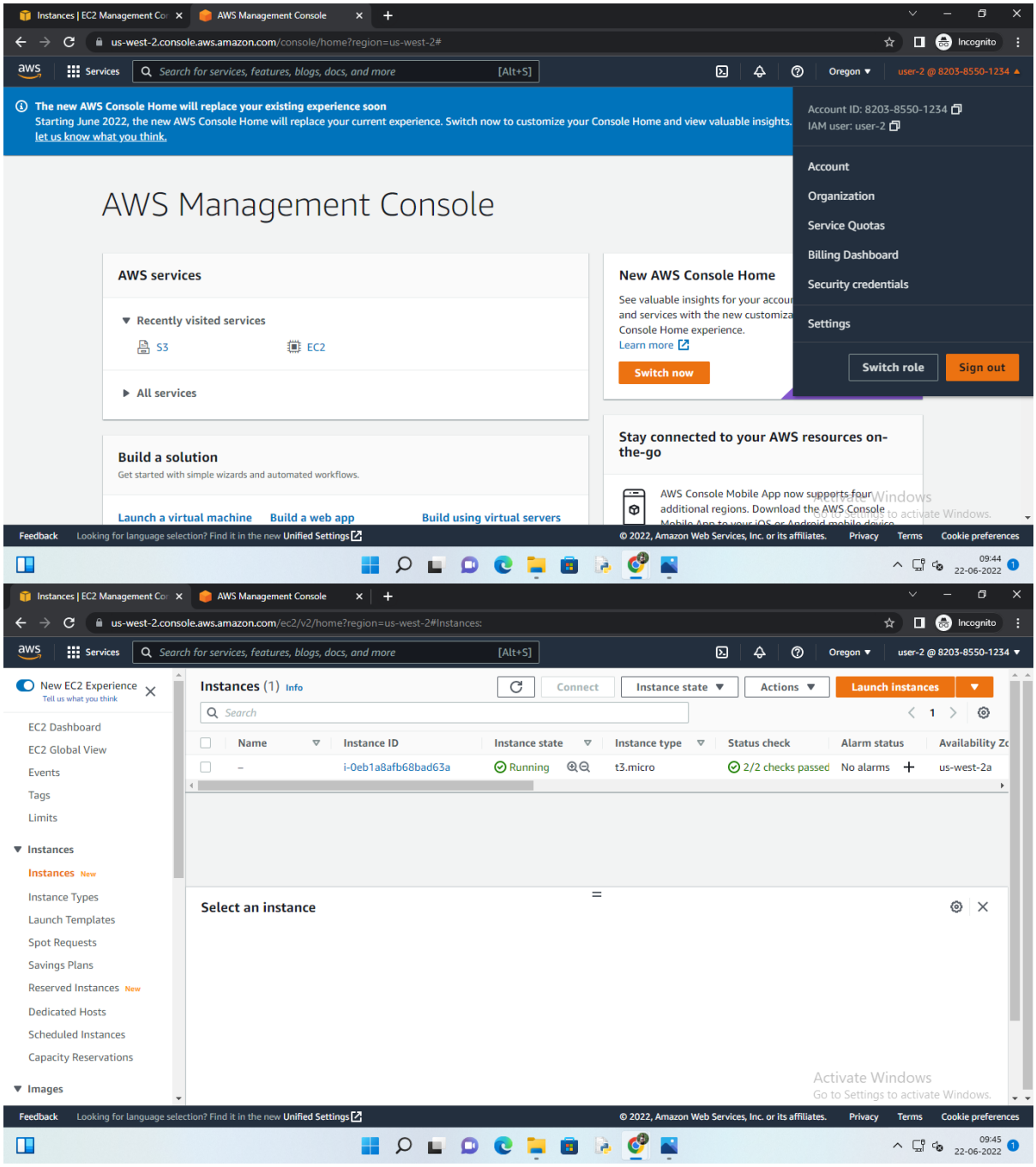
09:40
22-06-2022
Dashboard | EC2 Management C
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Home:
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Resources
EC2 Global view
You are using the following Amazon EC2 resources in the US West (Oregon) Region:
Instances (running) API Error
Dedicated Hosts API Error
Elastic IPs API Error
Instances API Error
Key pairs API Error
Load balancers API Error
Placement groups API Error
Security groups API Error
Snapshots API Error
Volumes API Error
Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more
Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.
Service health
AWS Health Dashboard
Account attributes
Supported platforms
Default VPC
Settings
EBS encryption
Zones
EC2 Serial Console
Default credit specification
Console experiments
Explore AWS
Save Up to 45% on ML Inference
EC2 Inf1 instances provide high performance and lowest cost ML inference in the cloud. Learn more
09:42
22-06-2022


Instances | EC2 Management Cor
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
Incognito
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
user-1 @ 8203-8550-1234
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Instances Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
You are not authorized to perform this operation.
Select an instance
Activate Windows
Go to Settings to activate Windows.
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
09:43
22-06-2022
Instances | EC2 Management Cor
AWS Management Console
us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
The new AWS Console Home will replace your existing experience soon
Starting June 2022, the new AWS Console Home will replace your current experience. Switch now to customize your Console Home and view valuable insights. Learn more or let us know what you think.
Switch now
AWS Management Console
AWS services
Recently visited services
S3
EC2
All services
New AWS Console Home
See valuable insights for your account and services with the new customizable Console Home experience.
Learn more
Switch now
Build a solution
Get started with simple wizards and automated workflows.
Launch a virtual machine
Build a web app
Build using virtual servers
Stay connected to your AWS resources on-the-go
AWS Console Mobile App now supports four additional regions. Download the AWS Console
Feedback
Looking for language selection? Find it in the new Unified Settings
09:44
22-06-2022


Instances | EC2 Management Cor
AWS Management Console
us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
Incognito
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
user-2 @ 8203-8550-1234
The new AWS Console Home will replace your existing experience soon
Starting June 2022, the new AWS Console Home will replace your current experience. Switch now to customize your Console Home and view valuable insights.
let us know what you think.
Account ID: 8203-8550-1234
IAM user: user-2
Account
Organization
Service Quotas
Billing Dashboard
Security credentials
Settings
Switch role
Sign out
AWS Management Console
AWS services
Recently visited services
S3
EC2
All services
New AWS Console Home
See valuable insights for your accou
and services with the new customiza
Console Home experience.
Learn more
Switch now
Build a solution
Get started with simple wizards and automated workflows.
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Build a web app
Build using virtual servers
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Terms
Cookie preferences
09:44
22-06-2022
Instances | EC2 Management Cor
AWS Management Console
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
Incognito
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
user-2 @ 8203-8550-1234
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zo
i-0eb1a8afb68bad63a
Running
t3.micro
2/2 checks passed
No alarms
us-west-2a
Select an instance
Activate Windows
Go to Settings to activate Windows.
Feedback
Looking for language selection? Find it in the new Unified Settings
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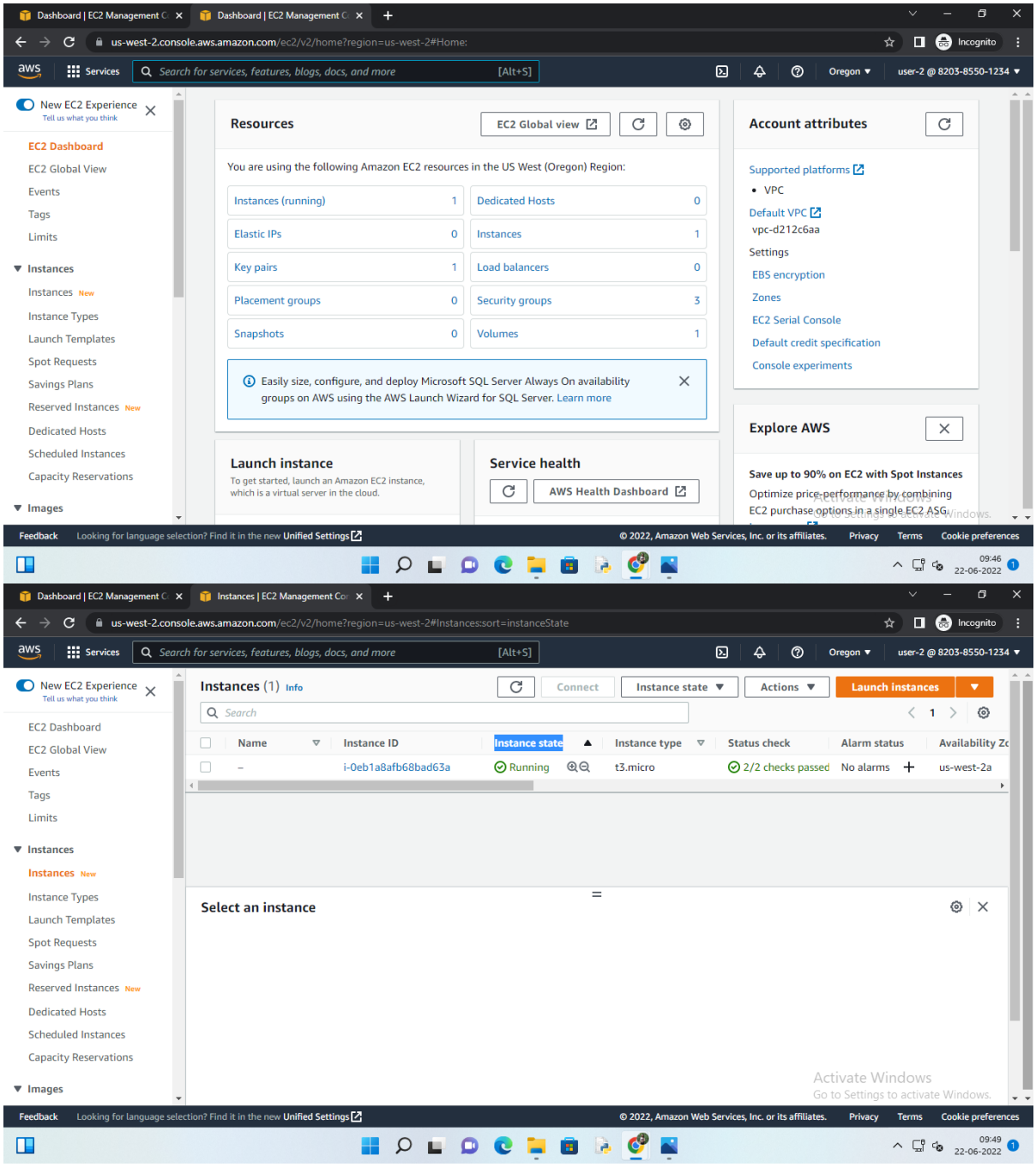
Privacy
Terms
Cookie preferences
09:45
22-06-2022


Dashboard | EC2 Management C
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Home:
Search for services, features, blogs, docs, and more [Alt+S]
Oregon
user-2 @ 8203-8550-1234
New EC2 Experience
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Resources
EC2 Global view
You are using the following Amazon EC2 resources in the US West (Oregon) Region:
Instances (running) 1
Dedicated Hosts 0
Elastic IPs 0
Instances 1
Key pairs 1
Load balancers 0
Placement groups 0
Security groups 3
Snapshots 0
Volumes 1
Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. Learn more
Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.
Service health
AWS Health Dashboard
Account attributes
Supported platforms
VPC
Default VPC
vpc-d212c6aa
Settings
EBS encryption
Zones
EC2 Serial Console
Default credit specification
Console experiments
Explore AWS
Save up to 90% on EC2 with Spot Instances
Optimize price-performance by combining EC2 purchase options in a single EC2 ASG
Feedback
Looking for language selection? Find it in the new Unified Settings
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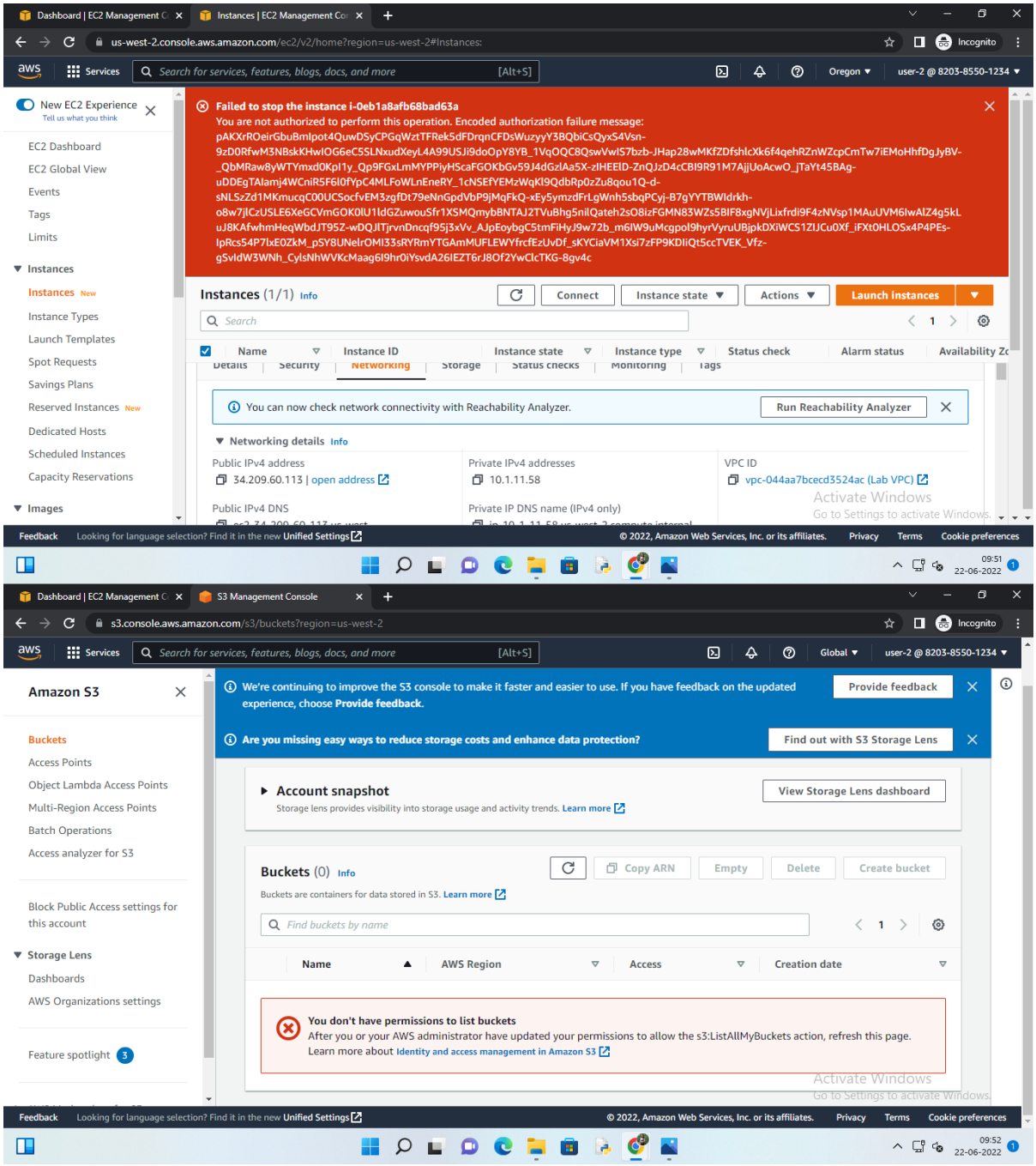
Cookie preferences
09:46
22-06-2022
Instances | EC2 Management Cor
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:sort=instanceState
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zo
i-0eb1a8afb68bad63a
Running
t3.micro
2/2 checks passed
No alarms
us-west-2a
Select an instance
Activate Windows
Go to Settings to activate Windows.
09:49
22-06-2022


Dashboard | EC2 Management C
Instances | EC2 Management Cor
us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:
Incognito
Services
Search for services, features, blogs, docs, and more [Alt+S]
Oregon
user-2 @ 8203-8550-1234
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
Failed to stop the instance i-0eb1a8afb68bad63a
You are not authorized to perform this operation. Encoded authorization failure message:
pAKXrROeirGbuBmIpot4QuwDSyCPGqWztTFRek5dFDrqnCFDsWuzyyY3BQbiCsQyxS4Vsn-
9zD0RfwM3NBskKHwIOG6eC5SLNxudXeyL4A99USJi9doOpY8YB_1VqOQC8QswVwlS7bzb-JHap28wMKfZDfshlcXk6f4qehRZnWZcpCmTw7iEMoHhfDgJyBV-
_QbMRaw8yWTYmxd0KpI1y_Qp9FGxLmMYPPiyHScaFGOKbGv59J4dGzlAa5X-zlHEEID-ZnQJzD4cCBI9R91M7AjjUoAcwO_jTaYt45BAg-
uDDEgTAlamj4WCniR5F6l0fYpC4MLFoWLnEneRY_1cNSEfYEMzWqKl9QdbRp0zZu8qou1Q-d-
sNLSzZd1MKmucqC00UCSocfvEM3zgfDt79eNnGpdVbP9jMqFkQ-xEy5ymzdFrLgWnh5sbqPCyj-B7gYYTBWIdrkh-
o8w7jlCzUSLE6XeGCVmGOK0lU1ldGZuwou5fr1XSMQmybBNTAJ2TVuBhg5nilQateh2sO8izFGMN83WZs5BIF8xgNVjLixfrdi9F4zNVsp1MAuUVM6IwAlZ4g5kL
uJ8KAfwhmHeqWbdJT95Z-wDQJITjrvnDncqf95j3xVv_AJpEoybgC5tmFiHyJ9w72b_m6IW9uMcgpol9hyrVyruUBjpkDXiWCS1ZIJCu0Xf_iFXt0HLOSx4P4PEs-
IpRcs54P7lxE0ZkM_pSY8UNeIrOMI33sRYRmYTGAmMUFLEWYfrcfEzUvDf_sKYCiaVM1Xsi7zFP9KDIiQt5ccTVEK_Vfz-
gSvIdW3WNh_CyIsNhWVKcMaag6l9hr0iYsvdA26IEZT6rJ8Of2YwClcTKG-8gv4c
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Search
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
You can now check network connectivity with Reachability Analyzer.
Run Reachability Analyzer
Networking details Info
Public IPv4 address
34.209.60.113 | open address
Private IPv4 addresses
10.1.11.58
VPC ID
vpc-044aa7bcecd3524ac (Lab VPC)
Public IPv4 DNS
Private IP DNS name (IPv4 only)
Activate Windows
Go to Settings to activate Windows.
Feedback
Looking for language selection? Find it in the new Unified Settings
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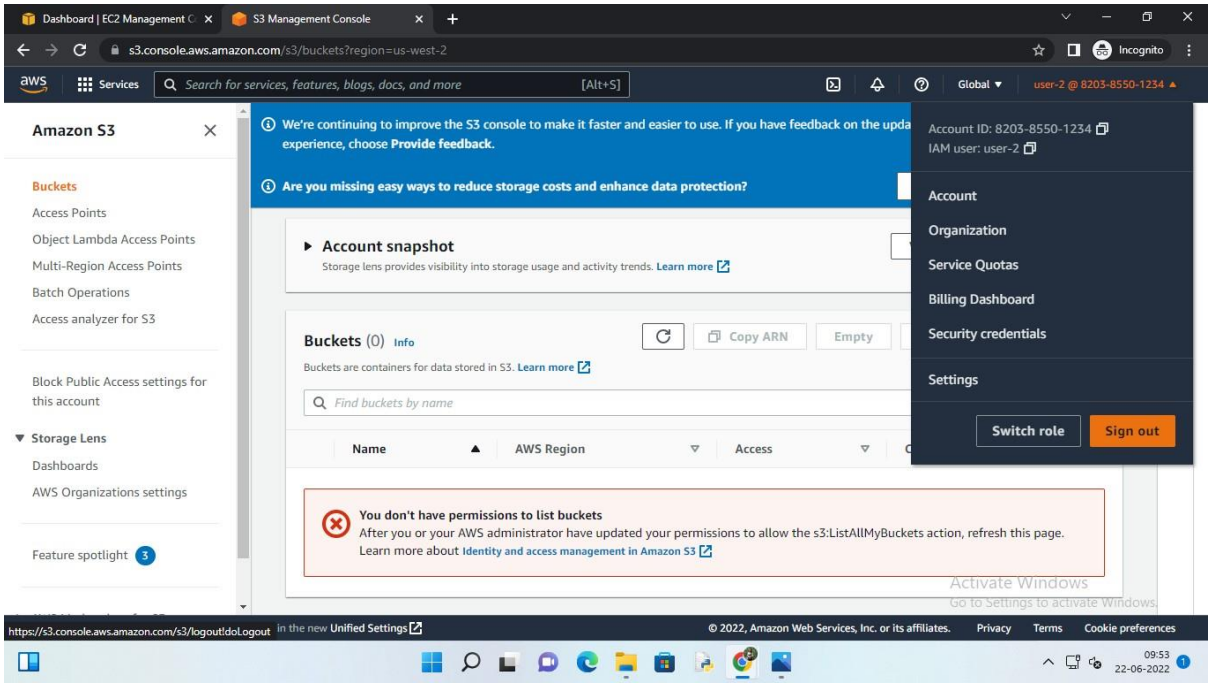
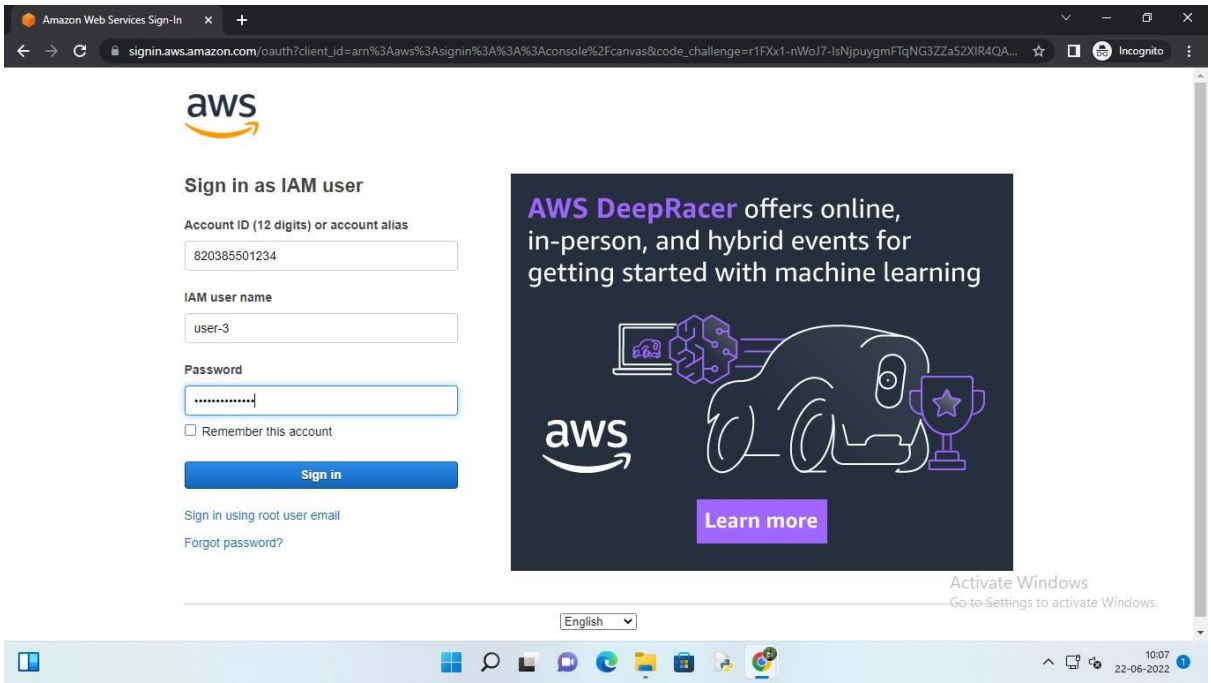
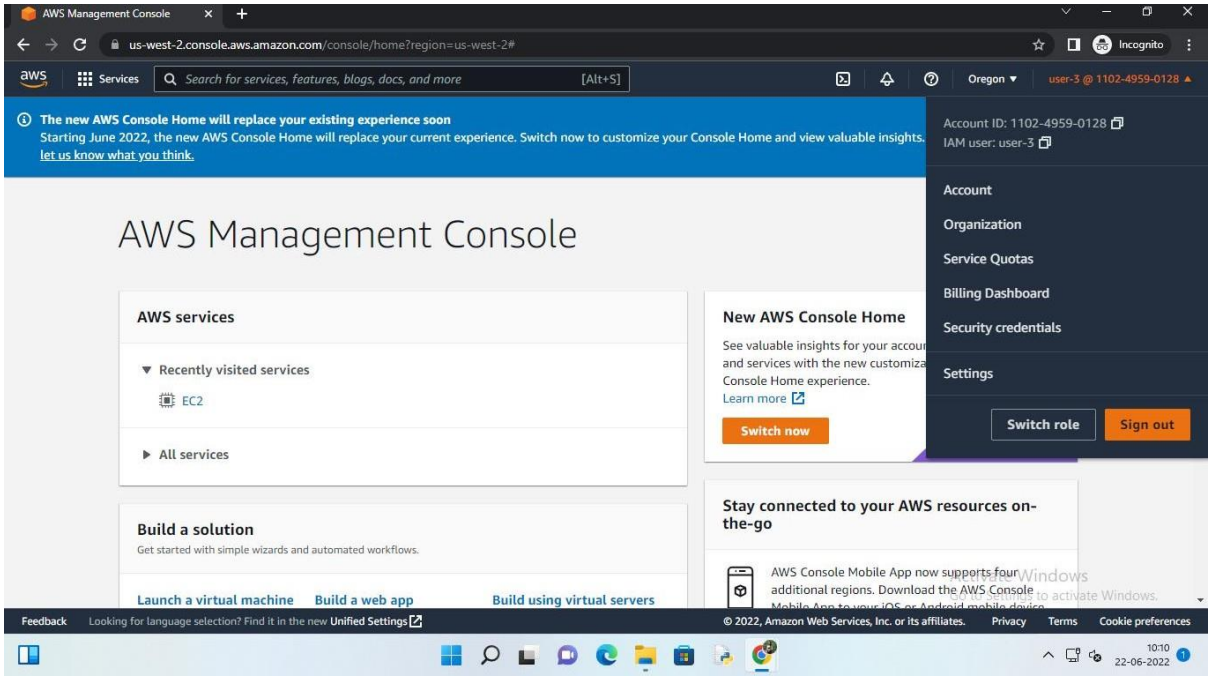
Terms
Cookie preferences
09:51
22-06-2022
Dashboard | EC2 Management C
S3 Management Console
s3.console.aws.amazon.com/s3/buckets?region=us-west-2
Global
user-2 @ 8203-8550-1234
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Are you missing easy ways to reduce storage costs and enhance data protection?
Find out with S3 Storage Lens
Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more
View Storage Lens dashboard
Buckets (0) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3. Learn more
Find buckets by name
Name
AWS Region
Access
Creation date
You don't have permissions to list buckets
After you or your AWS administrator have updated your permissions to allow the s3:ListAllMyBuckets action, refresh this page.
Learn more about Identity and access management in Amazon S3
Activate Windows
Go to Settings to activate Windows.
09:52
22-06-2022



Close your private window. End Lab

Follow these steps to close the console, end your lab, and evaluate the experience.
Return to the AWS Management Console.
On the navigation bar, click awsstudent@<AccountNumber>, and then click Sign Out.
click End Lab





Conclusion:
Congratulations! You now have successfully:
Explored pre-created IAM users and groups
Inspected IAM policies as applied to the pre-created groups
Followed a real-world scenario, adding users to groups with specific capabilities enabled
Located and used the IAM sign-in URL
Experimented with the effects of policies on service access

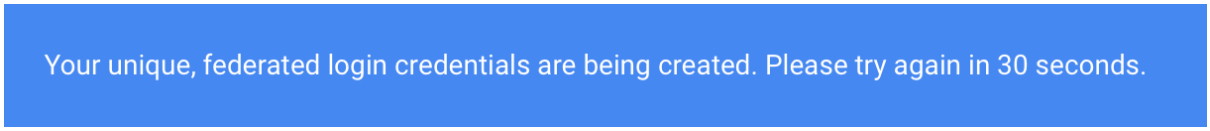
Practical No. 3

Introduction to Amazon Simple Storage Service (S3)

Start Lab
1. At the top of your screen, launch your lab by choosing Start Lab
Start Lab
This starts the process of provisioning your lab resources. An estimated amount of time to provision your lab resources is displayed. You must wait for your resources to be provisioned before continuing.
If you are prompted for a token, use the one distributed to you (or credits you have purchased).
2. Open your lab by choosing Open Console
This automatically logs you into the AWS Management Console.

A Do not change the Region unless instructed.

Common Login Errors
Error: Federated login credentials



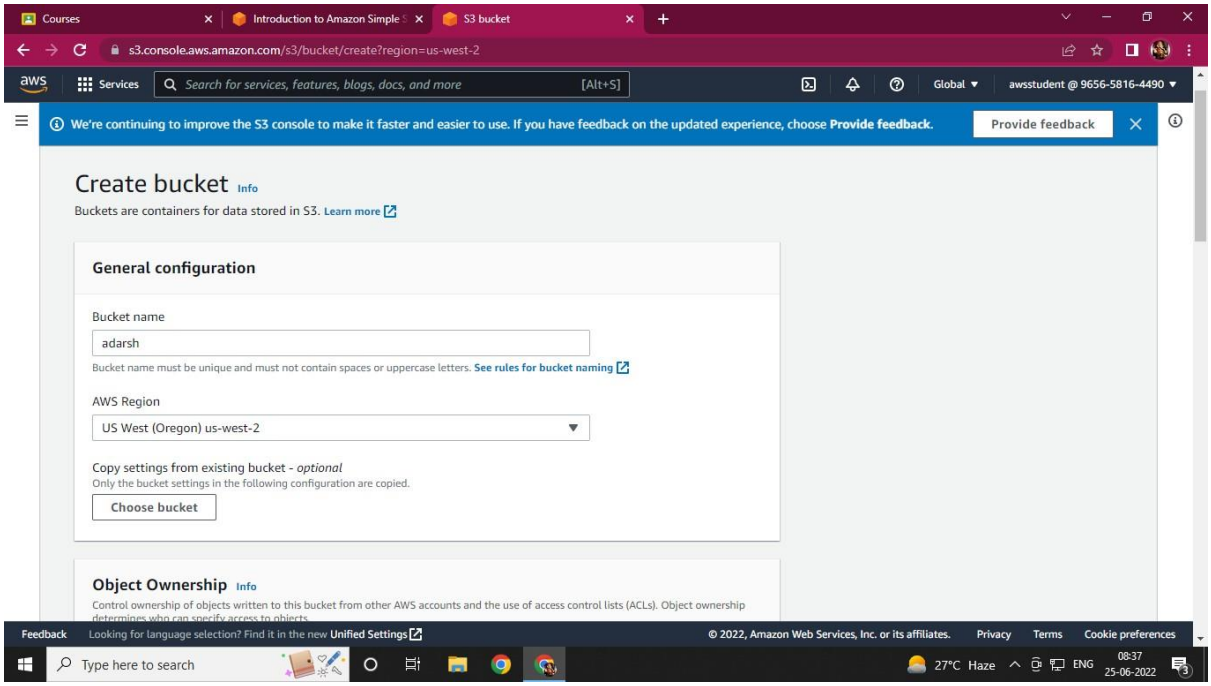
If you see this message:
• Close the browser tab to return to your initial lab window • Wait a few seconds • Choose Open Console again
You should now be able to access the AWS Management Console.
Error: You must first log out

If you see the message, You must first log out before logging into a different AWS account:

- Choose here
- Close your browser tab to return to your initial lab window
- Choose Open Console again

Lab Scenario

You work for a company using Amazon S3 for data storage. An application residing on an EC2 instance needs to push reporting data to an S3 bucket daily. You are tasked with creating an S3 bucket for your company to use for storing this report data. For a successful deployment, you need to ensure the EC2 instance has enough privileges to be able to upload and retrieve data from the S3 bucket. For security reasons, only the EC2 instance can write data to the S3 bucket. The files in the S3 bucket also require protection against accidental deletion. This lab follows the Getting Started with Amazon S3 digital course.



Task 1: Create a bucket

You are new to Amazon S3 and want to test the features and security of S3 as you configure the environment to hold the EC2 report data. You know that every object in Amazon S3 is stored in a bucket so creating a new bucket to hold the reports is the first thing on your task list.

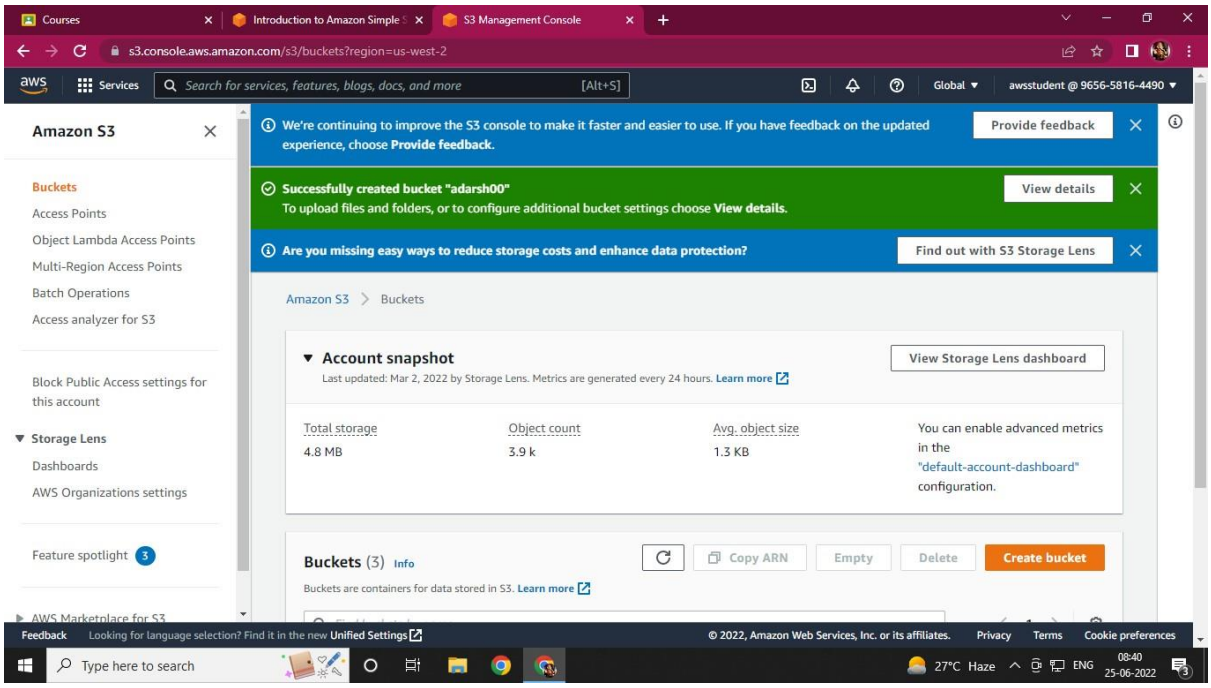
In this task, you create a bucket to hold your EC2 report data and then examine the different bucket configuration options.

3. At the top-left of the AWS Management Console, on the Services menu choose S3.

You can also search for S3 at the top of the services menu.

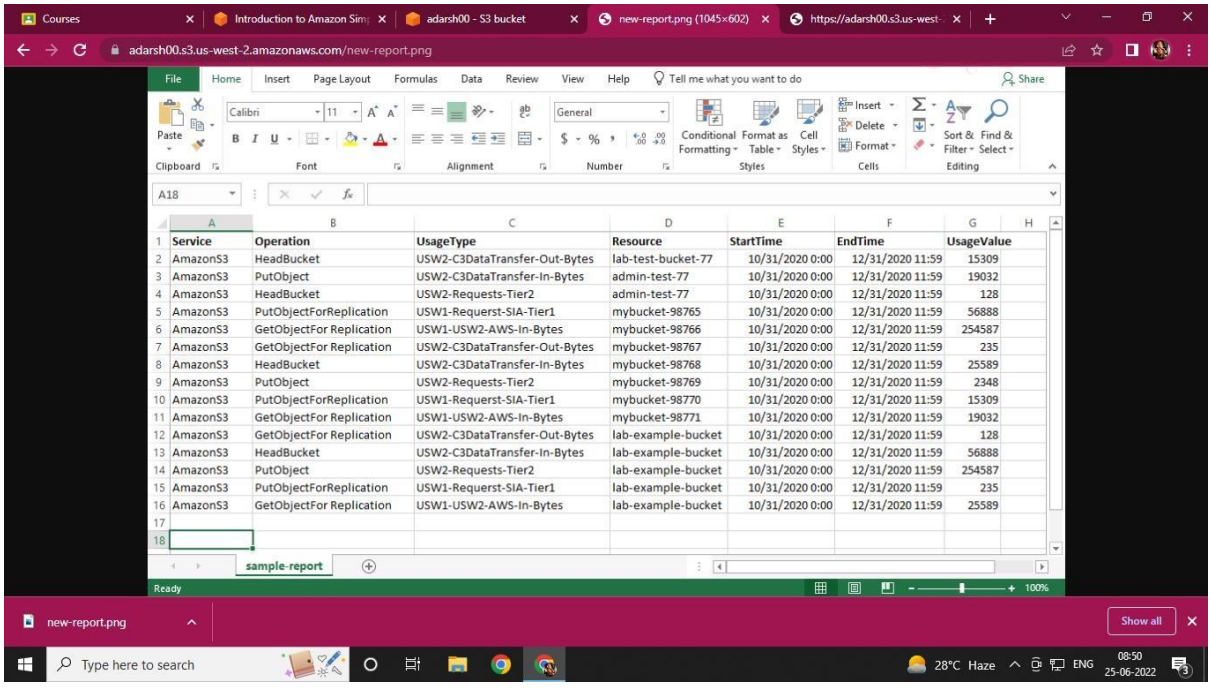
4. Choose Create bucket

Bucket names must be between 3 and 63 characters long and consist of only lowercase letters, numbers, or hyphens. The bucket name must be globally unique across all of Amazon S3, regardless of account or region, and cannot be changed after the bucket is created. As you enter a bucket name, a help box displays showing any violations of the naming rules. Refer to the Amazon S3 bucket naming rules in the Additional

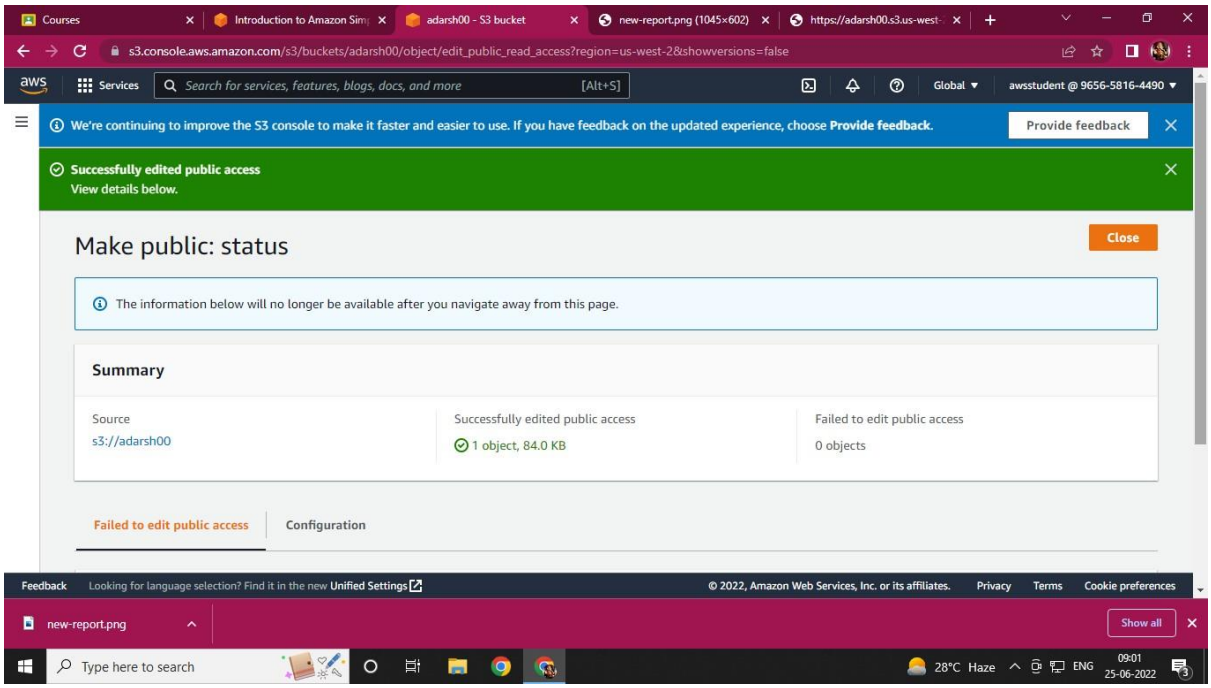


bucket is created. As you enter a bucket name, a help box displays showing any violations of the naming rules. Refer to the Amazon S3 bucket naming rules in the Additional resources section at the end of the lab for more information.

5. Under the General configuration section, name your bucket: reportbucket (NUMBER)
Replace NUMBER in the bucket name with a random number. This ensures that you have a unique name. * Example Bucket Name - reportbucket987987
6. In the Object Ownership section, configure:
• O ACLs enabled • Object writer
7. Leave Region at its default value.
Selecting a particular region allows you to optimize latency, minimize costs, or address regulatory requirements. Objects stored in a region never leave that region unless you explicitly transfer them to another region.
8. Scroll to the button and choose to create bucket.



Service	Operation	UsageType	Resource	StartTime	EndTime	UsageValue
AmazonS3	HeadBucket	USW2-C3DataTransfer-Out-Bytes	lab-test-bucket-77	10/31/2020 0:00	12/31/2020 11:59	15309
AmazonS3	PutObject	USW2-C3DataTransfer-In-Bytes	admin-test-77	10/31/2020 0:00	12/31/2020 11:59	19032
AmazonS3	HeadBucket	USW2-Requests-Tier2	admin-test-77	10/31/2020 0:00	12/31/2020 11:59	128
AmazonS3	PutObjectForReplication	USW1-Requerst-SIA-Tier1	mybucket-98765	10/31/2020 0:00	12/31/2020 11:59	56888
AmazonS3	GetObjectFor Replication	USW1-USW2-AWS-In-Bytes	mybucket-98766	10/31/2020 0:00	12/31/2020 11:59	254587
AmazonS3	GetObjectFor Replication	USW2-C3DataTransfer-Out-Bytes	mybucket-98767	10/31/2020 0:00	12/31/2020 11:59	235
AmazonS3	HeadBucket	USW2-C3DataTransfer-In-Bytes	mybucket-98768	10/31/2020 0:00	12/31/2020 11:59	25589
AmazonS3	PutObject	USW2-Requests-Tier2	mybucket-98769	10/31/2020 0:00	12/31/2020 11:59	2348
AmazonS3	PutObjectForReplication	USW1-Requerst-SIA-Tier1	mybucket-98770	10/31/2020 0:00	12/31/2020 11:59	15309
AmazonS3	GetObjectFor Replication	USW1-USW2-AWS-In-Bytes	mybucket-98771	10/31/2020 0:00	12/31/2020 11:59	19032
AmazonS3	GetObjectFor Replication	USW2-C3DataTransfer-Out-Bytes	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	128
AmazonS3	HeadBucket	USW2-C3DataTransfer-In-Bytes	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	56888
AmazonS3	PutObject	USW2-Requests-Tier2	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	254587
AmazonS3	PutObjectForReplication	USW1-Requerst-SIA-Tier1	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	235
AmazonS3	GetObjectFor Replication	USW1-USW2-AWS-In-Bytes	lab-example-bucket	10/31/2020 0:00	12/31/2020 11:59	25589


Courses
Introduction to Amazon Sim
adarsh00 - S3 bucket
new-report.png (1045×602)
https://adarsh00.s3.us-west-
s3.console.aws.amazon.com/s3/buckets/adarsh00/object/edit_public_read_access?region=us-west-2&showversions=false
Services
Search for services, features, blogs, docs, and more [Alt+S]
Global
awsstudent @ 9656-5816-4490
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Successfully edited public access
View details below.
Make public: status
Close
The information below will no longer be available after you navigate away from this page.
Summary
Source
s3://adarsh00
Successfully edited public access
1 object, 84.0 KB
Failed to edit public access
0 objects
Failed to edit public access
Configuration
Feedback
Looking for language selection? Find it in the new Unified Settings
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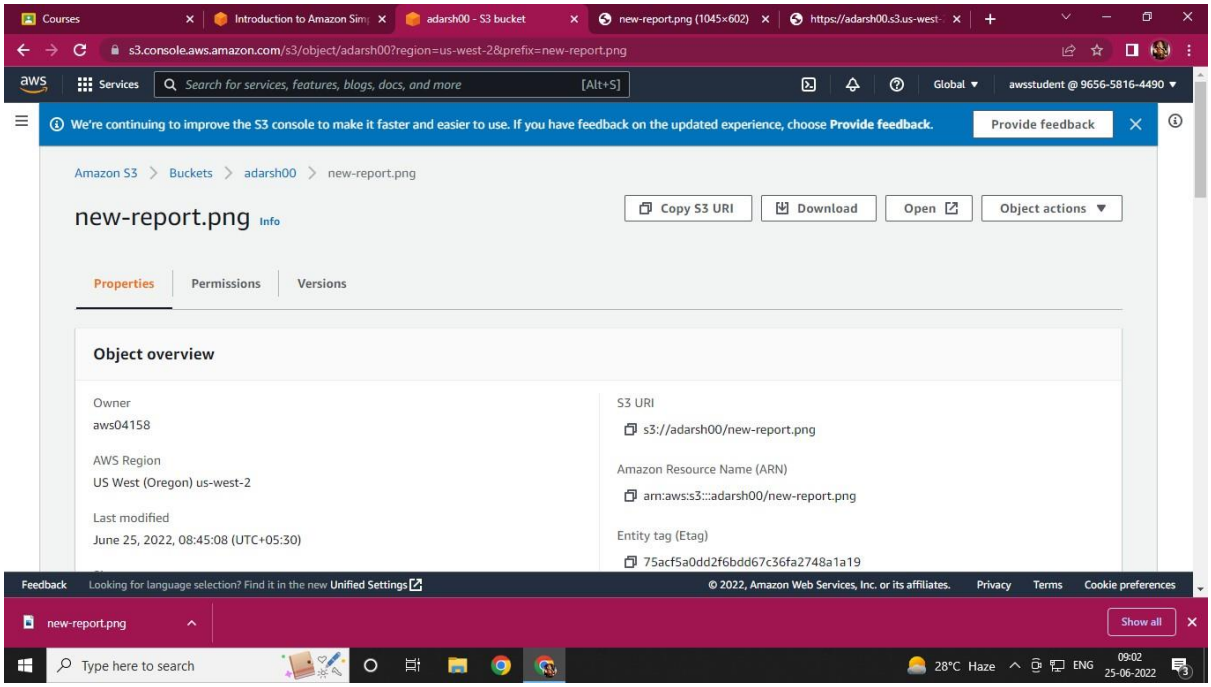
Privacy
Terms
Cookie preferences
new-report.png
Show all
Type here to search
28°C Haze
ENG
09:01
25-06-2022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adarsh00 - S3 bucket
new-report.png (1045×602)
https://adarsh00.s3.us-west-
s3.console.aws.amazon.com/s3/object/adarsh00?region=us-west-2&prefix=new-report.png
Services
Search for services, features, blogs, docs, and more [Alt+S]
Global
awsstudent @ 9656-5816-4490
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Amazon S3 > Buckets > adarsh00 > new-report.png
new-report.png Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
aws04158
AWS Region
US West (Oregon) us-west-2
Last modified
June 25, 2022, 08:45:08 (UTC+05:30)
S3 URI
s3://adarsh00/new-report.png
Amazon Resource Name (ARN)
arn:aws:s3:::adarsh00/new-report.png
Entity tag (Etag)
75acf5a0dd2f6bdd67c36fa2748a1a19
Feedback
Looking for language selection? Find it in the new Unified Settings
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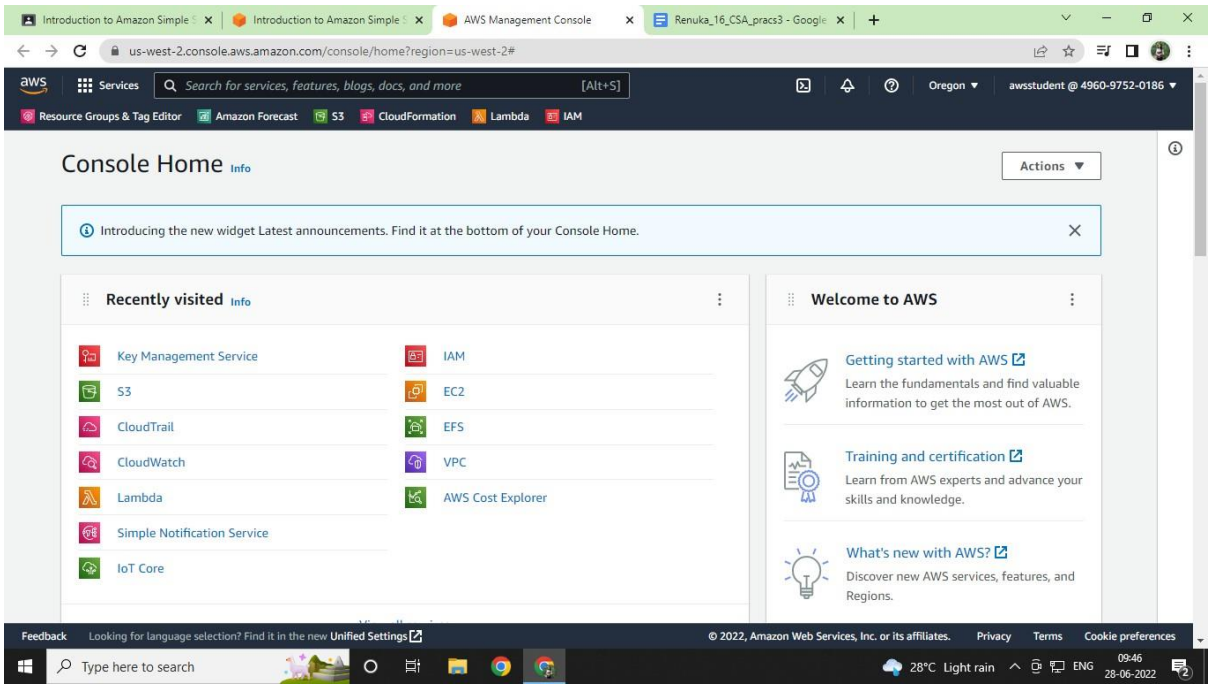
Privacy
Terms
Cookie preferences
new-report.png
Show all
Type here to search
28°C Haze
ENG
09:02
25-06-2022


Introduction to Amazon Simple S
Introduction to Amazon Simple S
AWS Management Console
Renuka_16_CSA_pracs3 - Google
us-west-2.console.aws.amazon.com/console/home?region=us-west-2#
aws
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
awsstudent @ 4960-9752-0186
Resource Groups & Tag Editor
Amazon Forecast
S3
CloudFormation
Lambda
IAM
Console Home Info
Actions
Introducing the new widget Latest announcements. Find it at the bottom of your Console Home.
Recently visited Info
Key Management Service
IAM
S3
EC2
CloudTrail
EFS
CloudWatch
VPC
Lambda
AWS Cost Explorer
Simple Notification Service
IoT Core
Welcome to AWS
Getting started with AWS
Learn the fundamentals and find valuable information to get the most out of AWS.
Training and certification
Learn from AWS experts and advance your skills and knowledge.
What's new with AWS?
Discover new AWS services, features, and Regions.
Feedback
Looking for language selection? Find it in the new Unified Settings
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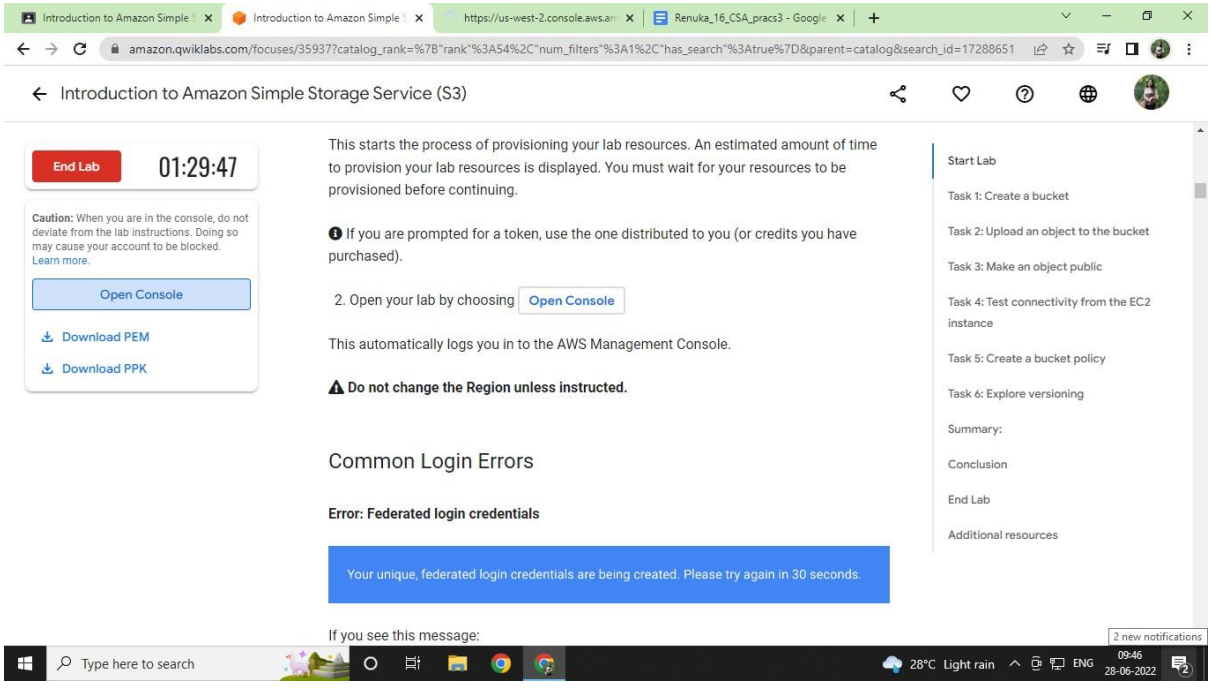
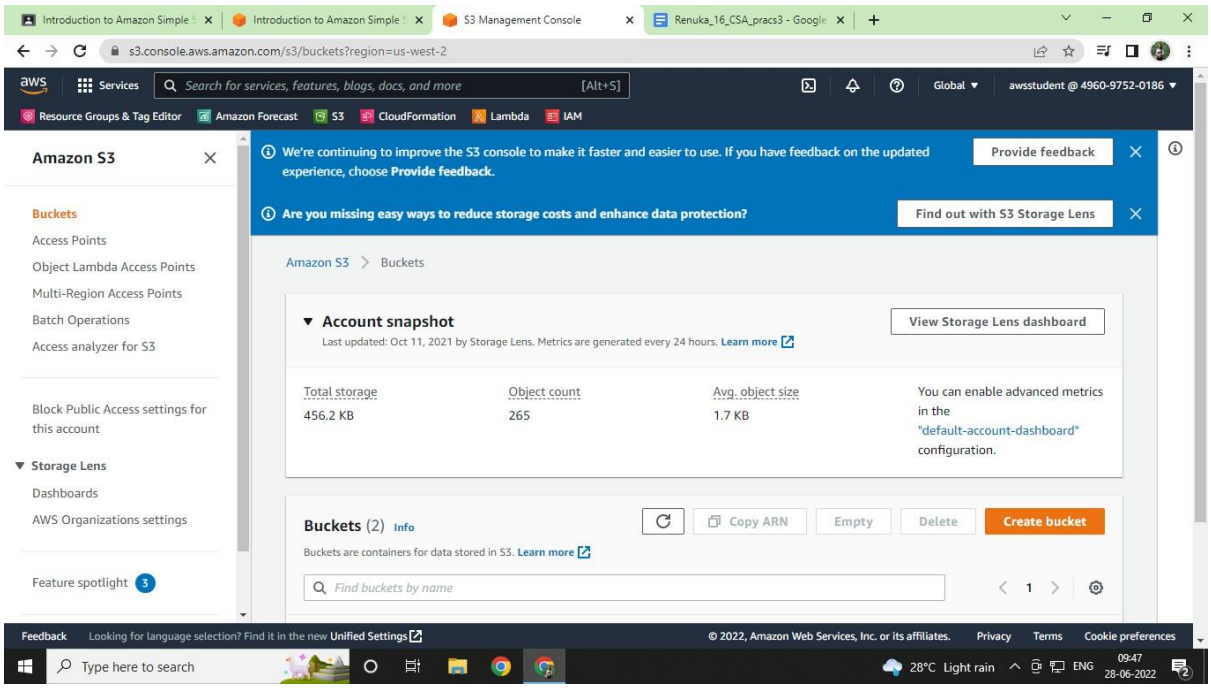
Cookie preferences
Type here to search
28°C Light rain
ENG
09:46
28-06-2022


Introduction to Amazon Simple S
Introduction to Amazon Simple S
https://us-west-2.console.aws.am
Renuka_16_CSA_pracs3 - Google
amazon.qwiklabs.com/focuses/35937?catalog_rank=%7B"rank"%3A54%2C"num_filters"%3A1%2C"has_search"%3Atrue%7D&parent=catalog&search_id=17288651
Introduction to Amazon Simple Storage Service (S3)
End Lab
01:29:47
Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked. Learn more.
Open Console
Download PEM
Download PPK
This starts the process of provisioning your lab resources. An estimated amount of time to provision your lab resources is displayed. You must wait for your resources to be provisioned before continuing.
If you are prompted for a token, use the one distributed to you (or credits you have purchased).
2. Open your lab by choosing Open Console
This automatically logs you in to the AWS Management Console.
Do not change the Region unless instructed.
Common Login Errors
Error: Federated login credentials
Your unique, federated login credentials are being created. Please try again in 30 seconds.
If you see this message:
Start Lab
Task 1: Create a bucket
Task 2: Upload an object to the bucket
Task 3: Make an object public
Task 4: Test connectivity from the EC2 instance
Task 5: Create a bucket policy
Task 6: Explore versioning
Summary:
Conclusion
End Lab
Additional resources
2 new notifications
Type here to search
28°C Light rain
ENG
09:46
28-06-2022


Introduction to Amazon Simple S
Introduction to Amazon Simple S
S3 Management Console
Renuka_16_CSA_pracs3 - Google
s3.console.aws.amazon.com/s3/buckets?region=us-west-2
aws
Services
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Global
awsstudent @ 4960-9752-0186
Resource Groups & Tag Editor
Amazon Forecast
S3
CloudFormation
Lambda
IAM
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Are you missing easy ways to reduce storage costs and enhance data protection?
Find out with S3 Storage Lens
Amazon S3 > Buckets
Account snapshot
Last updated: Oct 11, 2021 by Storage Lens. Metrics are generated every 24 hours. Learn more
View Storage Lens dashboard
Total storage
456.2 KB
Object count
265
Avg. object size
1.7 KB
You can enable advanced metrics in the "default-account-dashboard" configuration.
Buckets (2) Info
Buckets are containers for data stored in S3. Learn more
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
Feedback
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09:47
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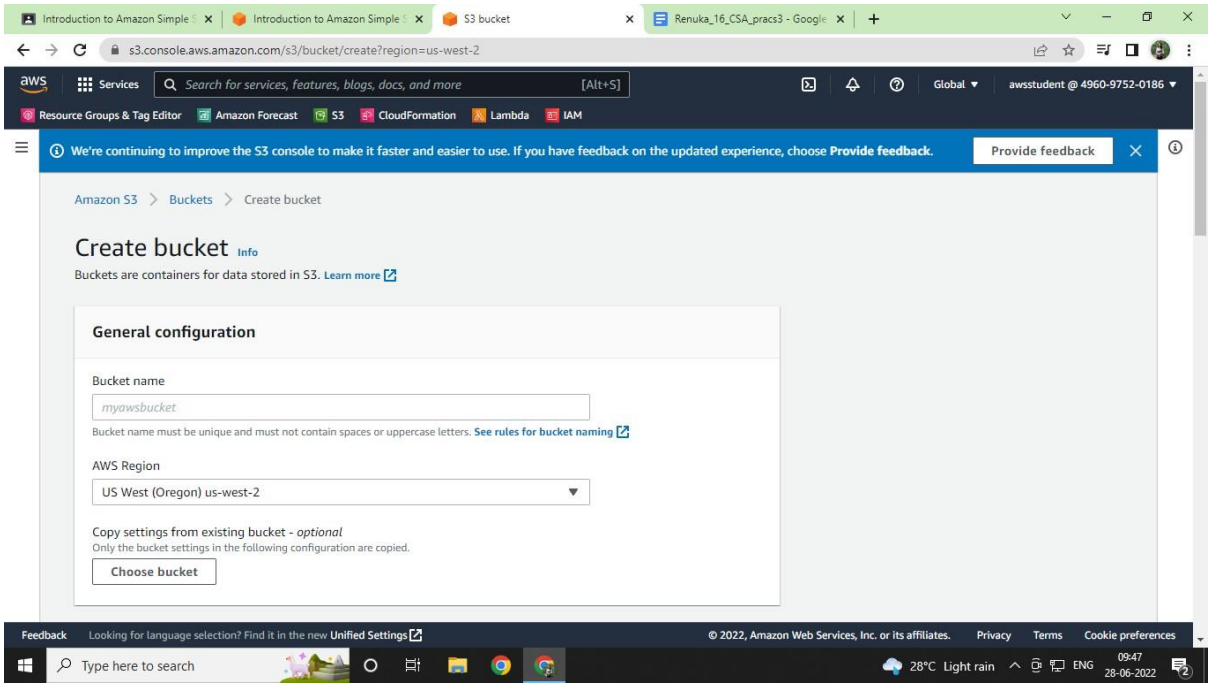
Introduction to Amazon Simple S
Introduction to Amazon Simple S
S3 bucket
Renuka_16_CSA_pracs3 - Google
s3.console.aws.amazon.com/s3/bucket/create?region=us-west-2
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Provide feedback
Amazon S3 > Buckets > Create bucket
Create bucket Info
Buckets are containers for data stored in S3. Learn more
General configuration
Bucket name
myawsbucket
Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming
AWS Region
US West (Oregon) us-west-2
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Feedback
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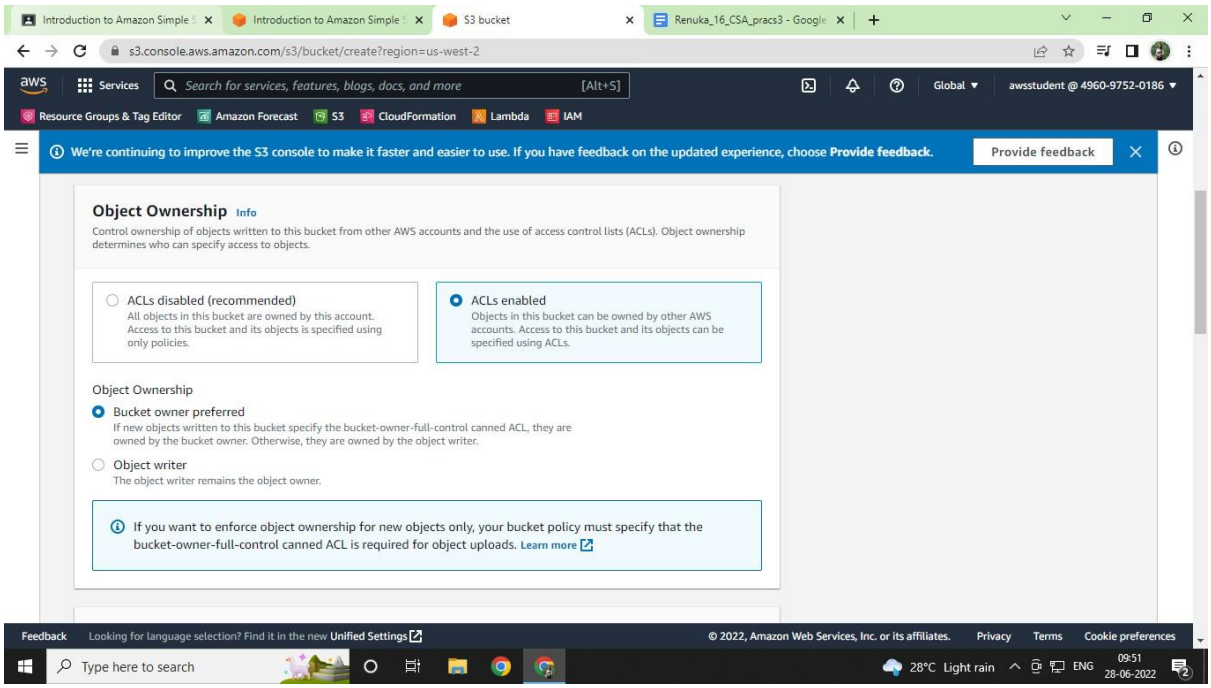
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CloudFormation
Lambda
IAM
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Object Ownership Info
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.
ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.
ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.
Object Ownership
Bucket owner preferred
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.
Object writer
The object writer remains the object owner.
If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. Learn more
Feedback
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Type here to search
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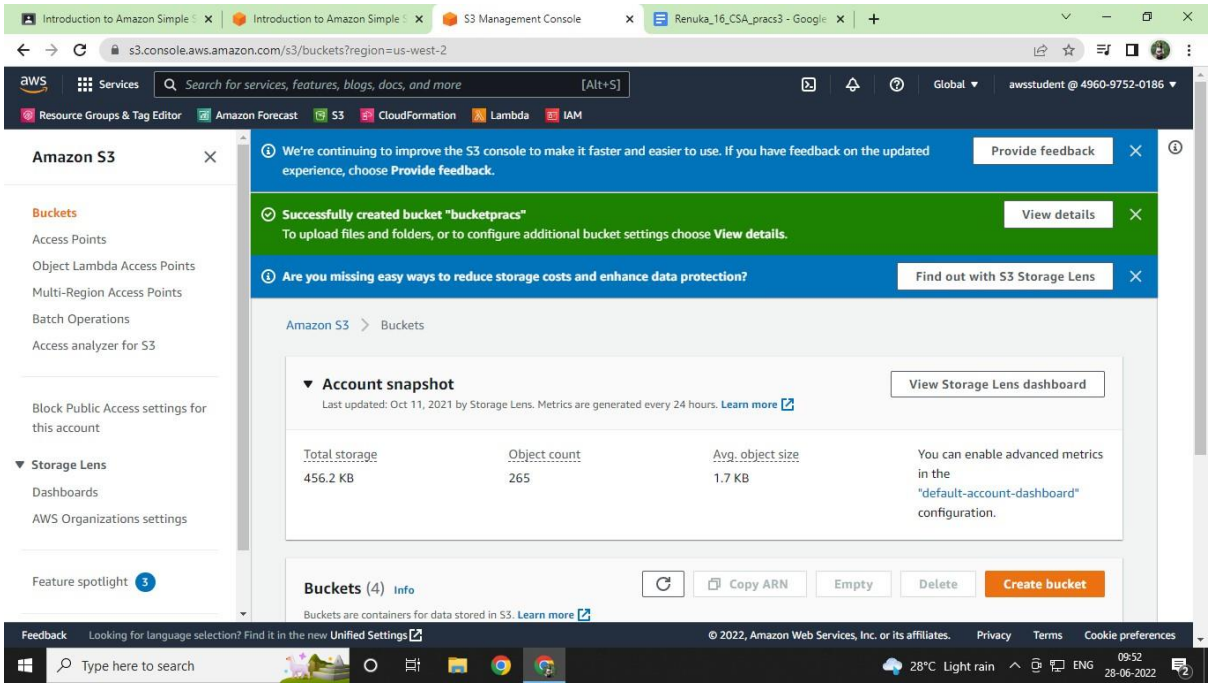
Introduction to Amazon Simple S
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S3 Management Console
Renuka_16_CSA_pracs3 - Google
s3.console.aws.amazon.com/s3/buckets?region=us-west-2
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Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
3
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Successfully created bucket "bucketpracs"
To upload files and folders, or to configure additional bucket settings choose View details.
View details
Are you missing easy ways to reduce storage costs and enhance data protection?
Find out with S3 Storage Lens
Amazon S3 > Buckets
Account snapshot
Last updated: Oct 11, 2021 by Storage Lens. Metrics are generated every 24 hours. Learn more
View Storage Lens dashboard
Total storage
456.2 KB
Object count
265
Avg. object size
1.7 KB
You can enable advanced metrics in the "default-account-dashboard" configuration.
Buckets (4) Info
Buckets are containers for data stored in S3. Learn more
Copy ARN
Empty
Delete
Create bucket
Feedback
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Task 2: Upload an object to the bucket

Now that you have a bucket created for your report data, you are ready to work with objects. An object can be any kind of file: a text file, a photo, a video, a zip file, and so on. When you add an object to Amazon S3, you have the option of including metadata with the object and setting permissions to control access to the object.

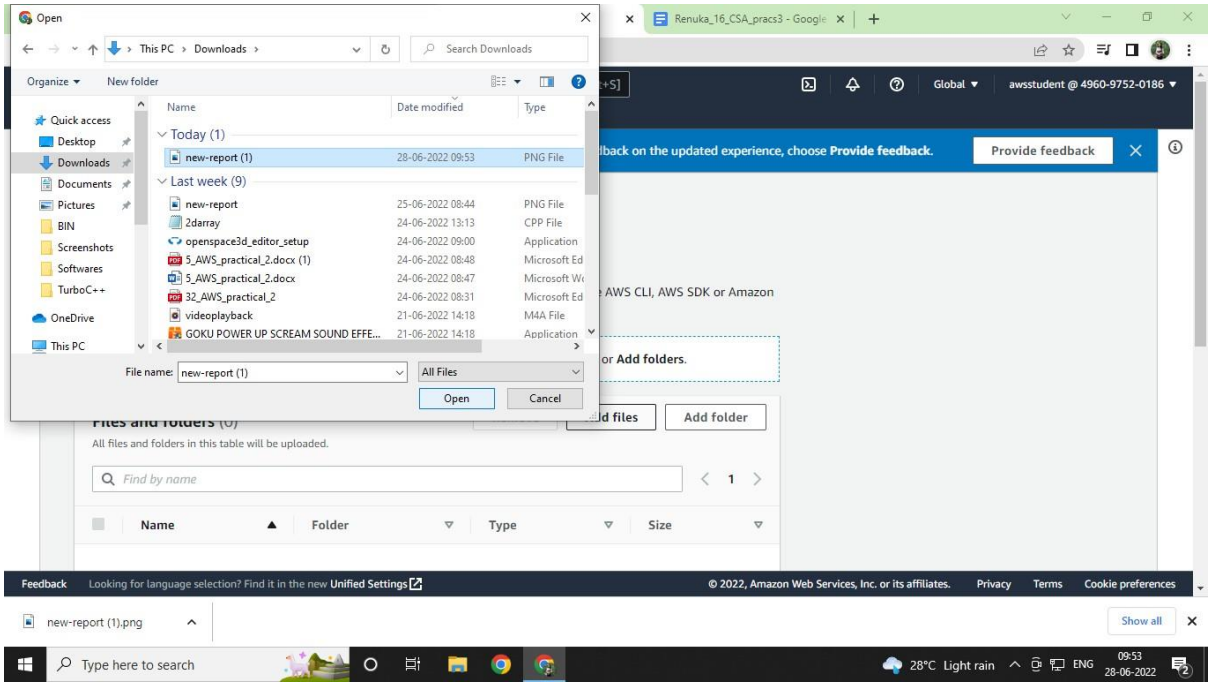
In this task you test uploading objects to your reportbucket. You have a screen capture of a daily report and want to upload this image to your S3 bucket.

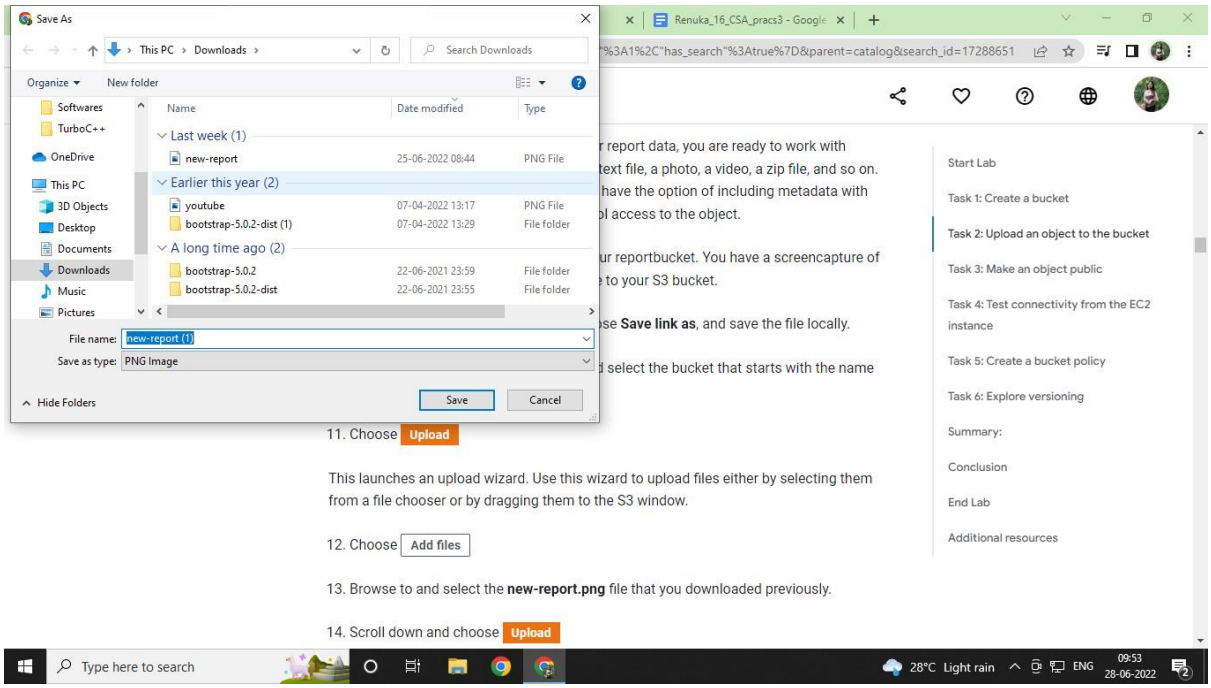
9. Right click this link new-report.png, choose Save link as, and save the file locally.
10. In the S3 Management Console, find and select the bucket that starts with the name

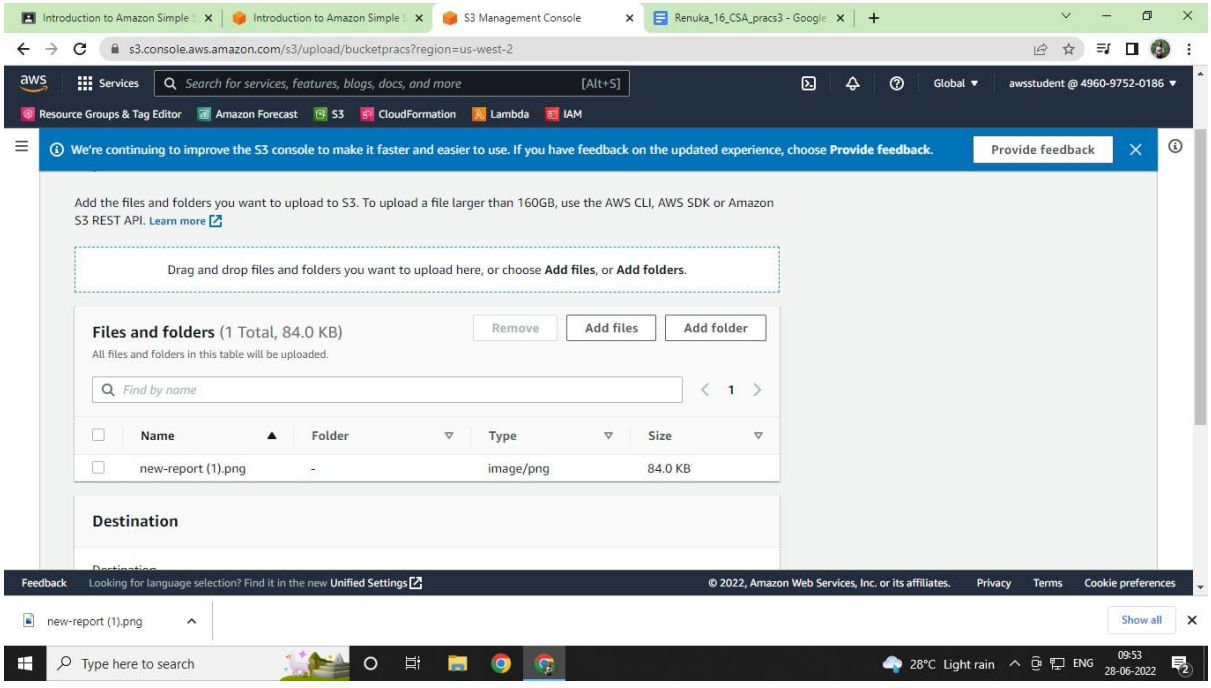
reportbucket

11. Choose Upload

This launches an upload wizard. Use this wizard to upload files either by selecting them from a file chooser or by dragging them to the S3 window.




Save As
This PC › Downloads ›
Search Downloads
Organize
New folder
Name
Date modified
Type
Last week (1)
new-report
25-06-2022 08:44
PNG File
Earlier this year (2)
youtube
07-04-2022 13:17
PNG File
bootstrap-5.0.2-dist (1)
07-04-2022 13:29
File folder
A long time ago (2)
bootstrap-5.0.2
22-06-2021 23:59
File folder
bootstrap-5.0.2-dist
22-06-2021 23:55
File folder
File name: new-report (1)
Save as type: PNG Image
Hide Folders
Save
Cancel
Start Lab
Task 1: Create a bucket
Task 2: Upload an object to the bucket
Task 3: Make an object public
Task 4: Test connectivity from the EC2 instance
Task 5: Create a bucket policy
Task 6: Explore versioning
Summary:
Conclusion
End Lab
Additional resources
11. Choose Upload
This launches an upload wizard. Use this wizard to upload files either by selecting them from a file chooser or by dragging them to the S3 window.
12. Choose Add files
13. Browse to and select the new-report.png file that you downloaded previously.
14. Scroll down and choose Upload
Type here to search
28°C Light rain
ENG
09:53
28-06-2022


Introduction to Amazon Simple S
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S3 Management Console
Renuka_16_CSA_pracs3 - Google
s3.console.aws.amazon.com/s3/upload/bucketpracs?region=us-west-2
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Provide feedback
Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more
Drag and drop files and folders you want to upload here, or choose Add files, or Add folders.
Files and folders (1 Total, 84.0 KB)
All files and folders in this table will be uploaded.
Remove
Add files
Add folder
Find by name
1
Name
Folder
Type
Size
new-report (1).png
-
image/png
84.0 KB
Destination
Feedback
Looking for language selection? Find it in the new Unified Settings
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Terms
Cookie preferences
new-report (1).png
Show all
Type here to search
28°C Light rain
ENG
09:53
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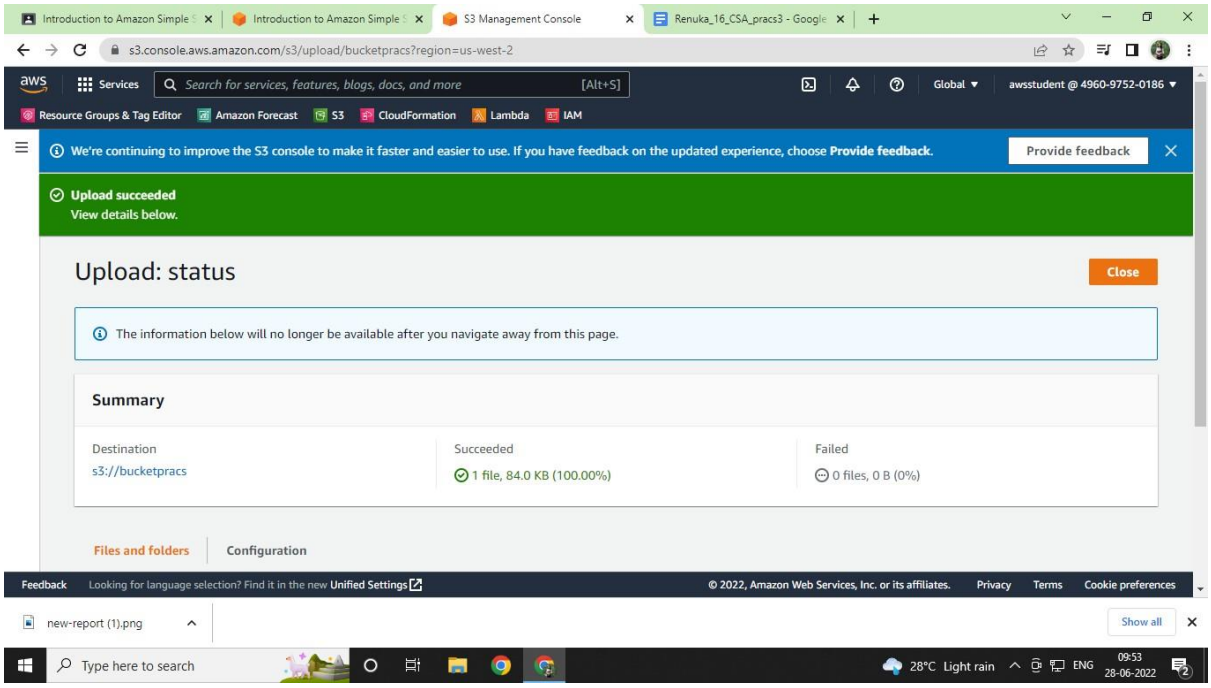


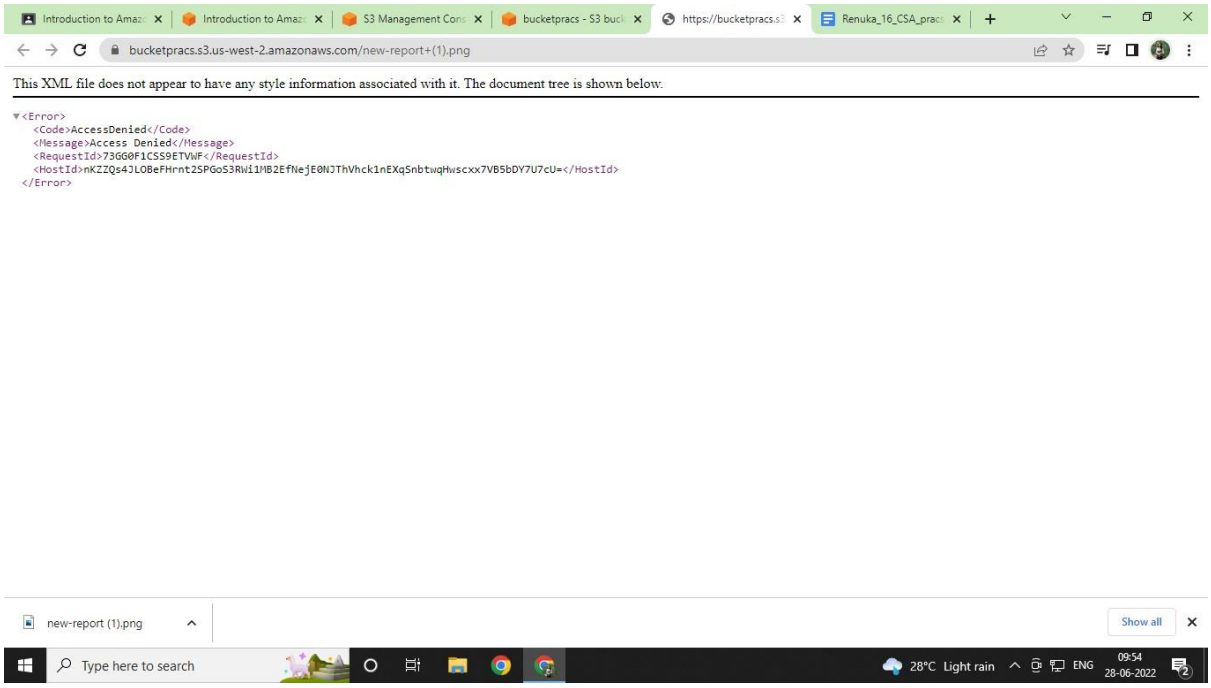
This launches an upload wizard. USE this wizard to upload file either by selecting them from a file chooser or by dragging them to the S3 window.

12. Choose Add files
13. Browse to and select the new-report.png file that you downloaded previously.
14. Scroll down and choose Upload

Your file is successfully uploaded when the green bar indicating Upload succeeded appears.

If the file does not display in the bucket within a few seconds of uploading it, you may need to choose the refresh button at the top-right.

15. In the Upload: status section, choose Close



Task 3: Make an object public

Security is a priority in Amazon S3. Before you configure your EC2 instance to connect to the reportbucket, you want to test the bucket and object settings for security.

In this task, you configure permissions on your bucket and your object to test accessibility

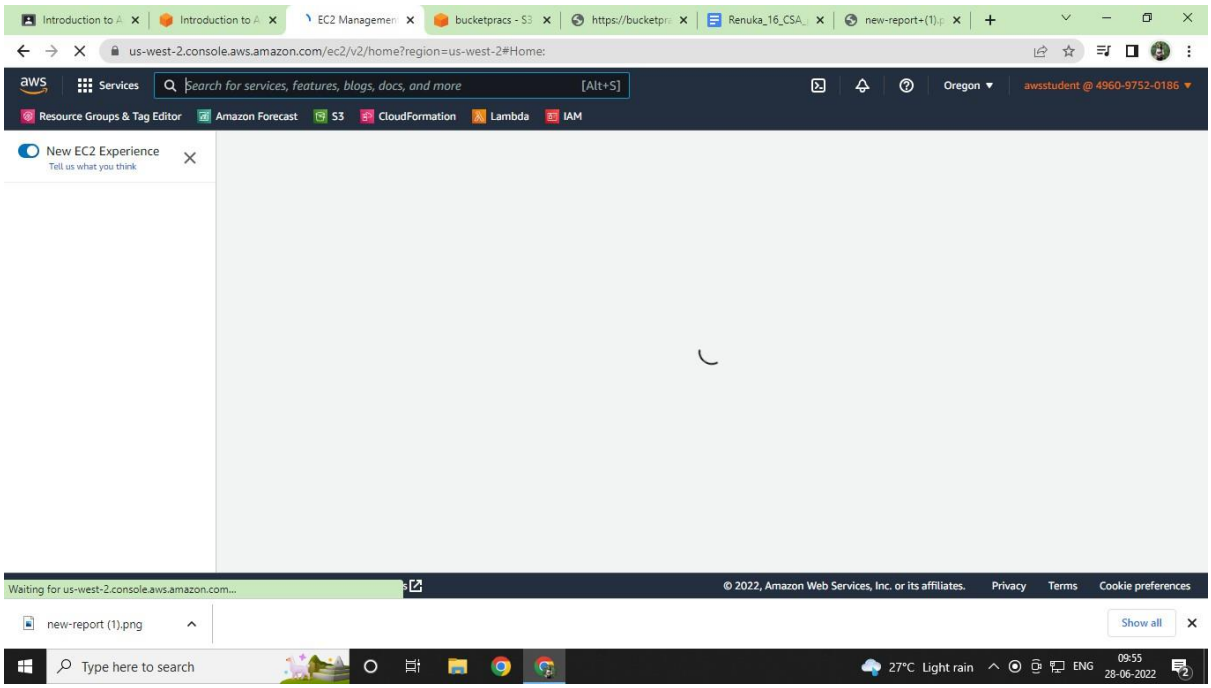
First, you attempt to access the object to confirm that it is private by default.

16. In the reportbucket overview page, on the objects tab, locate the new-report.png object, and choose the new-report.png file name.

The new-report.png overview page opens. Notice that the navigation in the top-left updates with a link to return to the bucket overview page.

17. In the Object overview section, locate and copy the Object URL link.

The link should look similar to: https://reportbucket987987.s3-us-west2.amazonaws.com/new-report.png


us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Home:
Search for services, features, blogs, docs, and more
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Resource Groups & Tag Editor
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S3
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Lambda
IAM
New EC2 Experience
Tell us what you think
Waiting for us-west-2.console.aws.amazon.com...
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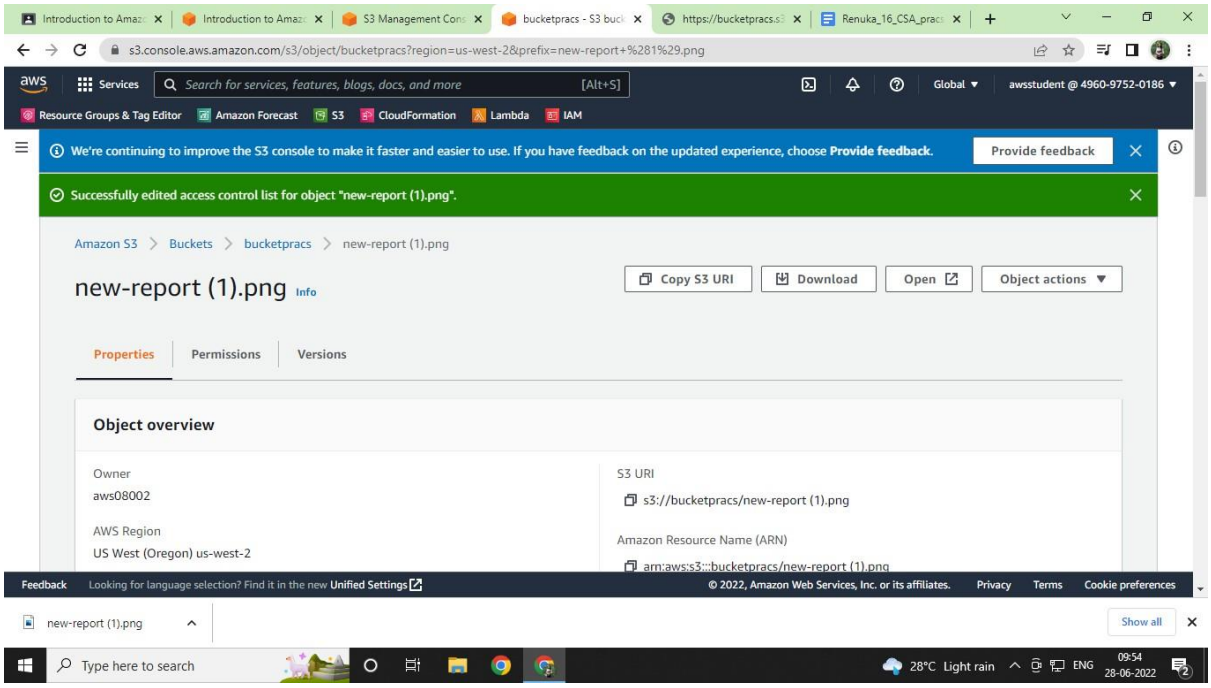
Privacy
Terms
Cookie preferences
new-report (1).png
Show all
Type here to search
27°C Light rain
ENG
09:55
28-06-2022


s3.console.aws.amazon.com/s3/object/bucketpracs?region=us-west-2&prefix=new-report+%281%29.png
Search for services, features, blogs, docs, and more
Global
awsstudent @ 4960-9752-0186
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Successfully edited access control list for object "new-report (1).png".
Amazon S3 > Buckets > bucketpracs > new-report (1).png
new-report (1).png Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
aws08002
AWS Region
US West (Oregon) us-west-2
S3 URI
s3://bucketpracs/new-report (1).png
Amazon Resource Name (ARN)
arn:aws:s3:::bucketpracs/new-report (1).png
Feedback
Looking for language selection? Find it in the new Unified Settings
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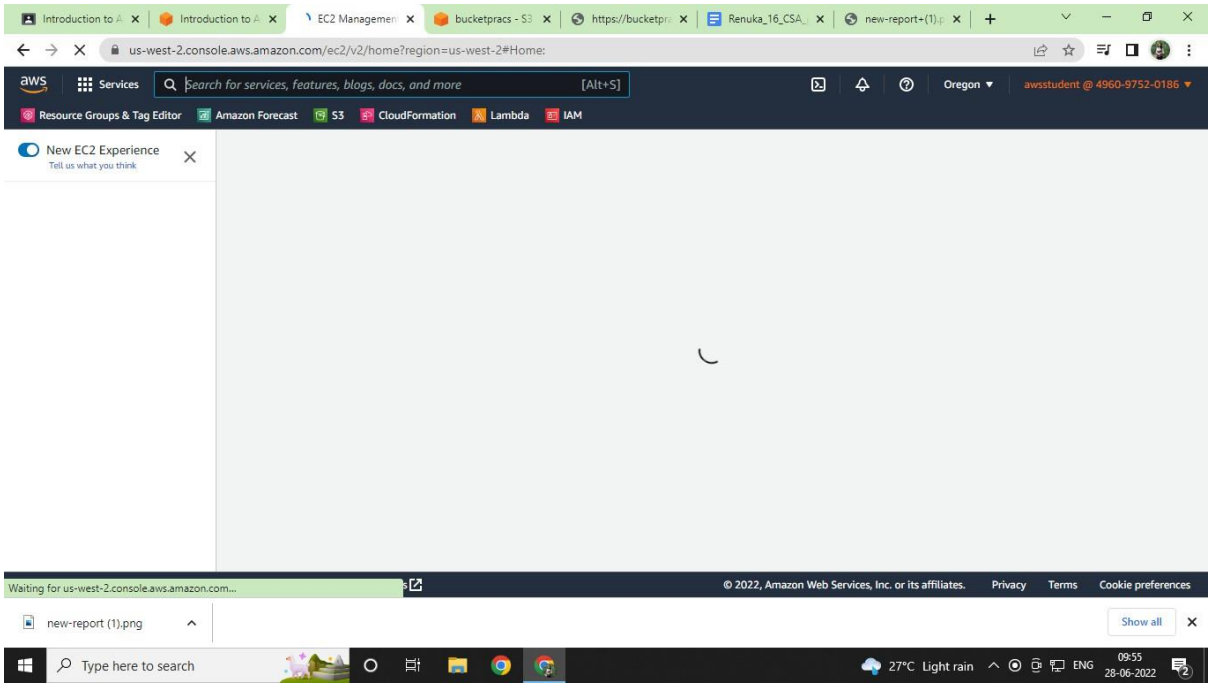
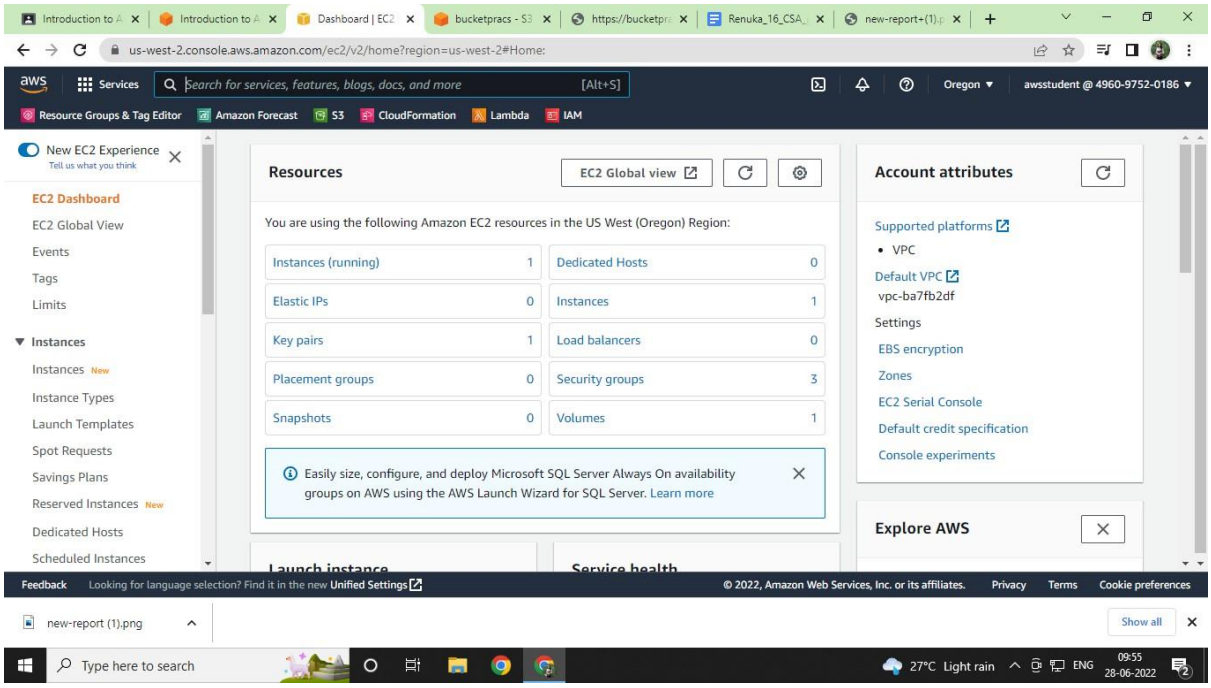
Terms
Cookie preferences
new-report (1).png
Show all
Type here to search
28°C Light rain
ENG
09:54
28-06-2022



18. Open a new browser tab and paste the Object URL link into the address field, and then
press Enter
You receive an Access Denied error. This is because objects in Amazon S3 are private by default.
Now that you've confirmed the default security of S3 is private, you want to test how to make the object publicly accessible.
19. Keep the browser with the Access Denied error open and return to the web browser tab
with the S3 Management Console.
20. You should still be on the new-report.png Object Overview tab.
21. Choose the Object actions button and Make public via ACL, which will be the last item in the list.
Notice the warning Public access is blocked because Block Public Access settings are turned on for this bucket. This error displays because this bucket is configured not to allow public access. The bucket settings override any permissions applied to individual objects. If you want the object to viewable by the general public, you need to turn off Block Public Access (BPA).
22. Choose Make public and read the warning at the top of the window indicating that it
"Failed to edit public access again this is due to BPA being enabled.



22. Choose Make public and read the warning at the top of the window indicating that it

"Failed to edit public access' again this is due to BPA being enabled.

23. Choose Close to return to the object overview.

24. Use the navigation at the top to go back to the main reportbucket overview page.

25. Choose the Permissions tab.

26. Under Block public access (bucket settings), choose Edit to change the settings.

27. Deselect the Block all public access option, and then leave all other options deselected.

Notice that all of the individual options remain deselected. When deselecting all public access, you must then select the individual options that apply to your situation and security objectives. Both ACLs and bucket policies are used later in the lab, so they all remain deselected in this task. In a production environment, it is recommended to use the least permissive settings possible. Refer to the Amazon S3 block public access link in the Additional Resources section at the end of the lab for more information.

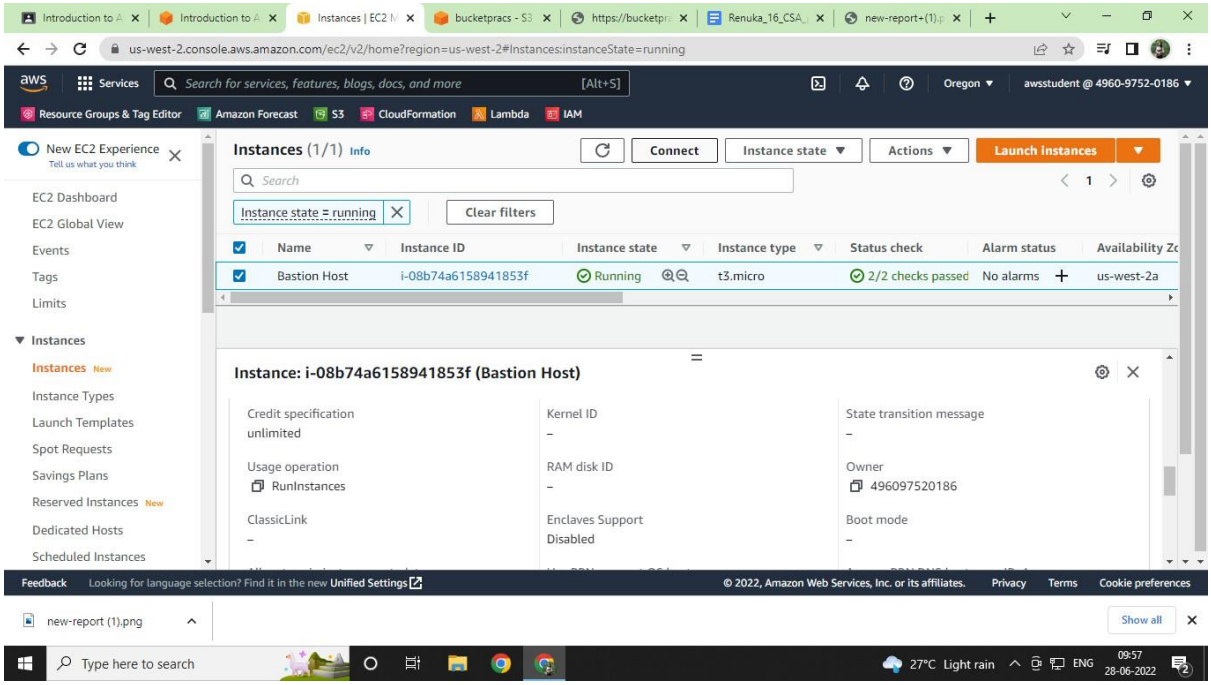
28. Choose Save changes

29. A dialogue box opens asking you to confirm your changes. Type confirm in the field,

and then choose Confirm

A Successfully edited bucket settings for Block Public Access message displays at the top of the window.

30. Choose the objects tab.
31. Choose the new-report.png file name.
32. On the new-report.png overview page, choose the object actions button and select
Make public via ACL
Notice the warning: When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects. This is designed to remind you that if you make the object public then everyone in the world will be able to read the object.
33. Choose Make public and you should see the green banner Successfully edited public
access at the top of the window.
34. Choose Close to return to the object overview.
35. Return to the other browser tab that displayed Access Denied for the new-report.png
and refresh the page.



Task 4: Test connectivity from the EC2 instance

In this task, you connect to your Amazon Elastic Compute Cloud (Amazon EC2) instance to test connectivity and security to the S3 reportbucket.

You should already be logged into the AWS Managment Console. If not, follow the steps in the Start Lab section to log in to the AWS Management Console.

37. On the Services - menu, choose EC2.

38. On the EC2 Dashboard, under the Resources section, choose Instances (running).

39. Select

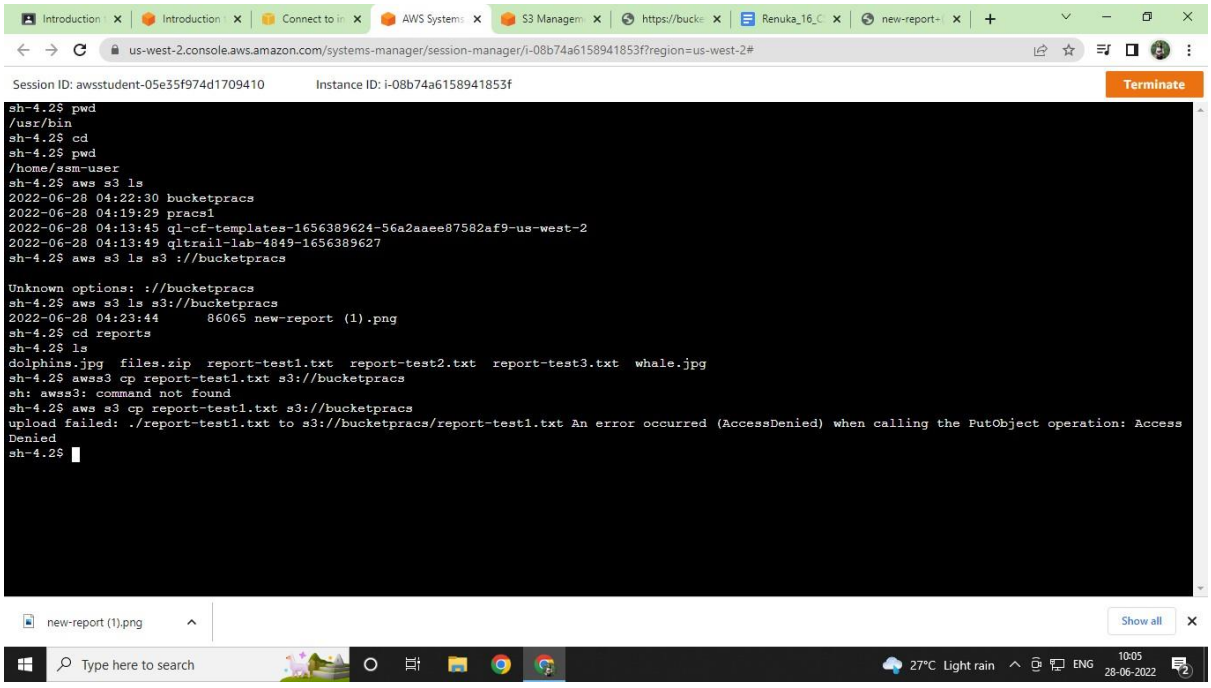
Bastion Host and choose Connect

40. In the Connect to instance window:

• For the Connection method, select Session Manager.

Session Manager enables you to connect to the bastion host instance without the need for specific ports to be open on your firewall or Amazon Virtual Private Cloud (Amazon VPC) Security group. Refer to AWS Systems Manager Session Manager in the Additional resources section at the end of this lab for more information

41. Choose Connect



You are now connected to the EC2 instance that holds the reporting application. Because Session Manager uses https port 443, it does not require you to open SSH port 22 to the outside world, you are satisfied with this security feature. Now you want to see how EC2 interacts with your S3 bucket.

42. In the bastion host session, enter the following command to change to home directory (/home/ssm-user/):

cd

The output returns you to the command prompt.
43.
Enter the following command to verify you are in the home directory:
pwd
The output should be:
/home/sam-user
You are now in the sam-user's home directory where you will run all of the commands in this lab.
44.
Enter the following command to list all of your S3 buckets.
44.
Enter the following command to list all of your S3 buckets.
aws s3 ls
The output should look similar to this:
2020-11-11 22:27:28 ql-cf-templates-1603924046-5d95cf473a39fe4e-us-west-2
2820-11-11 22:27:49 qltrail-lab-59350-1683924067 2820-11-11 22:34:46 reportbucket987987
You see the reportbucket you created as well as lab auto-generated buckets.
Note: During the creating of the lab enviornment, both an Instance Profile (which defines who you are for authentication) and a Role (which defines what you can do after you authenticate), have been automatically added for the EC2 instance to allow the EC2 instance to list the S3 buckets and objects.
45. Enter the following command to list all objects in your reportbucket. Remember to
change the number at the end of the reportbucket name, to match the name of the bucket you created.
aws s3 ls s3://reportbucket (NUMBER)
The command looks similar to this: aws s3 ls 53://reportbucket987987
46. Type the following to change directories into the reports directory
cd reports
The output returns you to the command prompt.
47. Type the following to list the contents of the directory.
ls
The output shows some files created in your reports directory to test the application
dolphins.jpg files.zip report-test.txt report-test1.txt report-test2.txt report-test3.txt whale.jpg
48. Type the following to see if you can copy a file to the S3 bucket.
aws s3 cp report-test1.txt s3://reportbucket (NUMBER

The command looks similar to this: aws s3 cp report-test1.txt s3://reportbucket987987

The output indicates an error upload failed. This is because we have read-only rights to the bucket and do not have the permissions to perform the PutObject operation.

The output indicates an error upload failed. This is because we have read-only rights to the bucket and do not have the permissions to perform the PutObject operation.

49. Leave this window open and go back to the AWS Console tab.

In the next task you create a bucket policy to add the PutOperation.

Task 5: Create a bucket policy

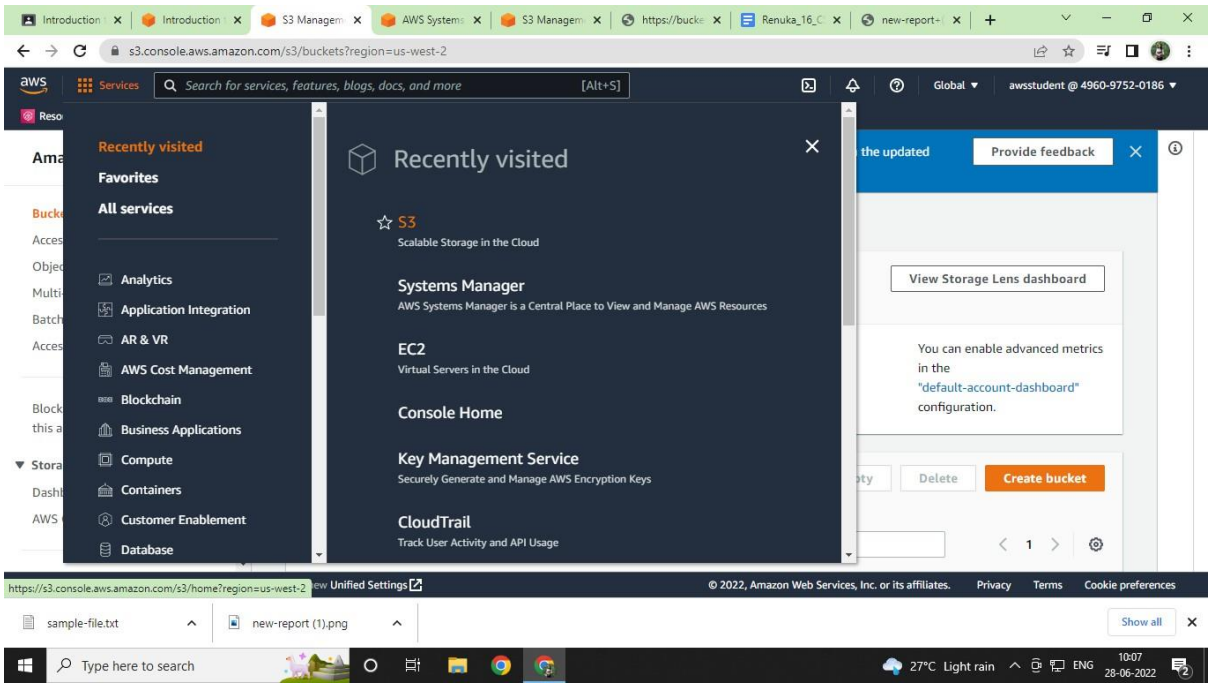
A bucket policy is a set of permissions associated with an S3 bucket. It is used to control access to an entire bucket or to specific directories within a bucket.

In this task, you use the AWS Policy Generator to create a bucket policy to enable read and write access from the EC2 instance to the bucket to ensure your reporting application can successfully write to S3.

50. Right-click this link sample-file.txt, choose Save link as, and save the file locally.

51. Return to the AWS Management Console, go to the Services - menu and select S3.

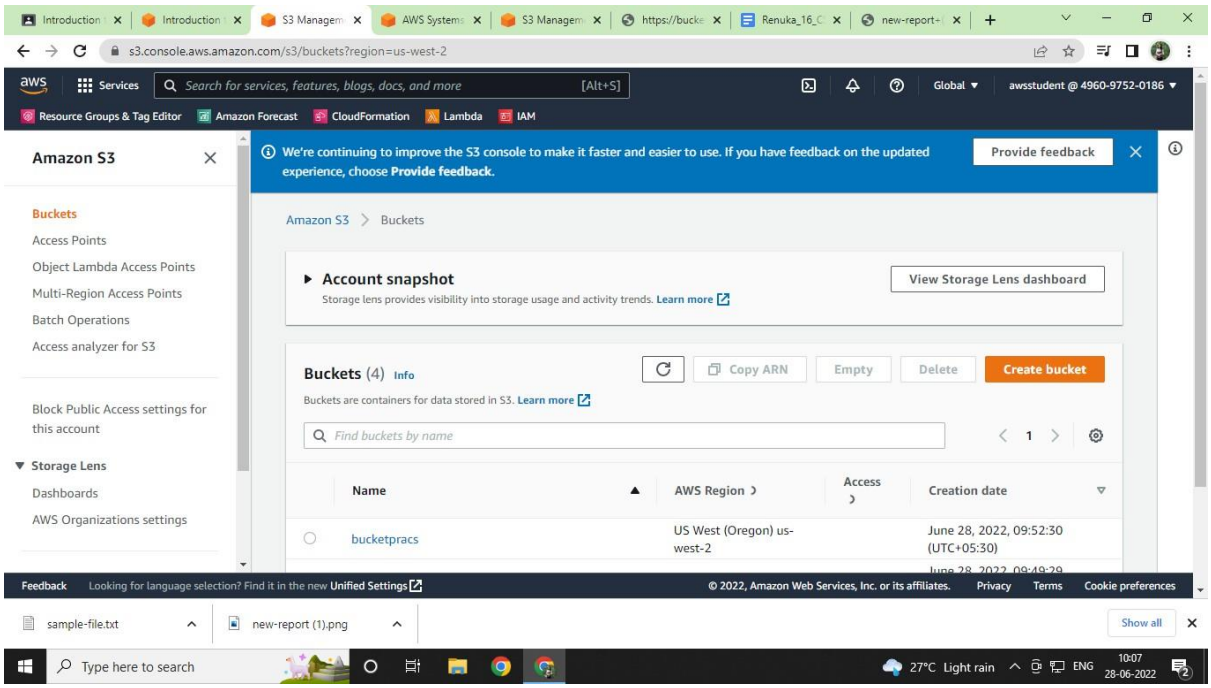
52. In the S3 Management Console tab, select the name of your bucket.

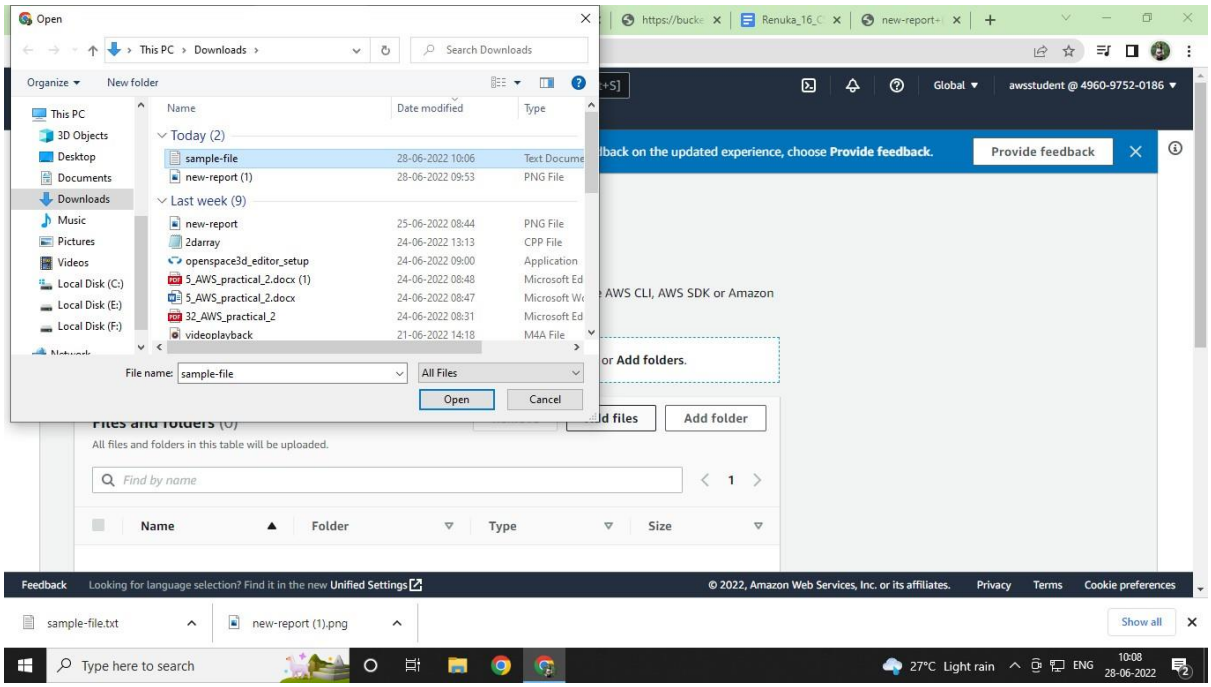


51. Return to the AWS Management Console, go to the Services

menu and select S3.
52. In the S3 Management Console tab, select the name of your bucket.
53. Choose Upload and use the same upload process as in the previous task to upload
the sample-file.txt
54. Choose the sample-file.txt file name. The sample-file.txt overview page opens.
55. Under the object overview section, locate and copy the object URL link.
56. In a new browser tab, paste the link into the address field, and then press Enter
Once again, Access Denied will be displayed. You need to configure a bucket policy to grant access to all objects in the bucket without having to specify permissions on each object individually.
57. Keep this browser tab open, but return to the tab with the S3 Management Console.
58. Go to Services - > IAM > Roles.
59. In the Search field type EC2InstanceProfileRole . This is the Role that the EC2 instance used to connect to S3.

60. Select EC2InstanceProfileRole. On the Summary page, copy the Role ARN to a text file
to be used in a later step.
It should look similar to this:
arn:aws:iam::596123517671:role/EC2InstanceProfileRole

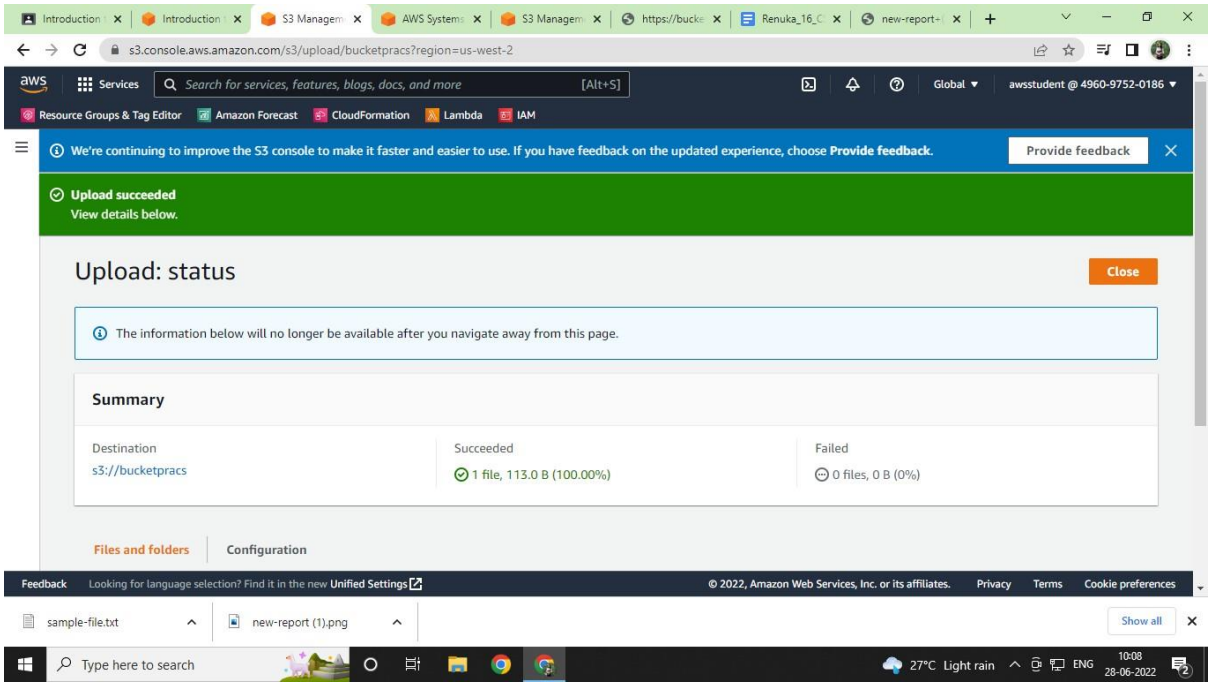




61. Choose Services - s3 and return to the S3 Management Console.
62. Choose the reportbucket.

You should see the two objects you uploaded. If not, navigate back to your bucket so that you see the list of objects you have uploaded.

63. Choose the Permissions tab.



64. In the Permissions tab, scroll to the Bucket Policy section, choose Edit

A blank Bucket policy editor is displayed. Bucket policies can be created manually, or they can be created with the assistance of the AWS Policy generator.

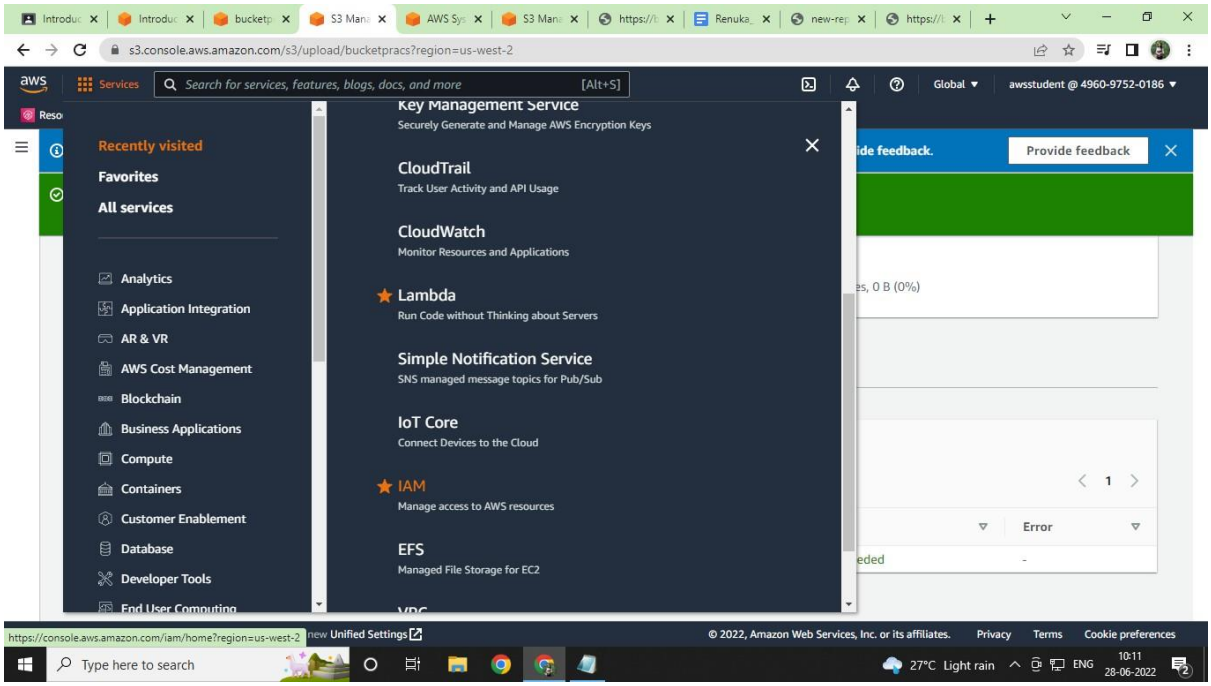
Amazon Resource Names (ARN)s uniquely identify AWS resources across all of AWS. Each section of the ARN is separated by a ":" and represents a specific piece of the path to the specified resource. The sections can vary slightly depending on the service being referenced, but generally follows this format:

arn.partition service region account-id resource

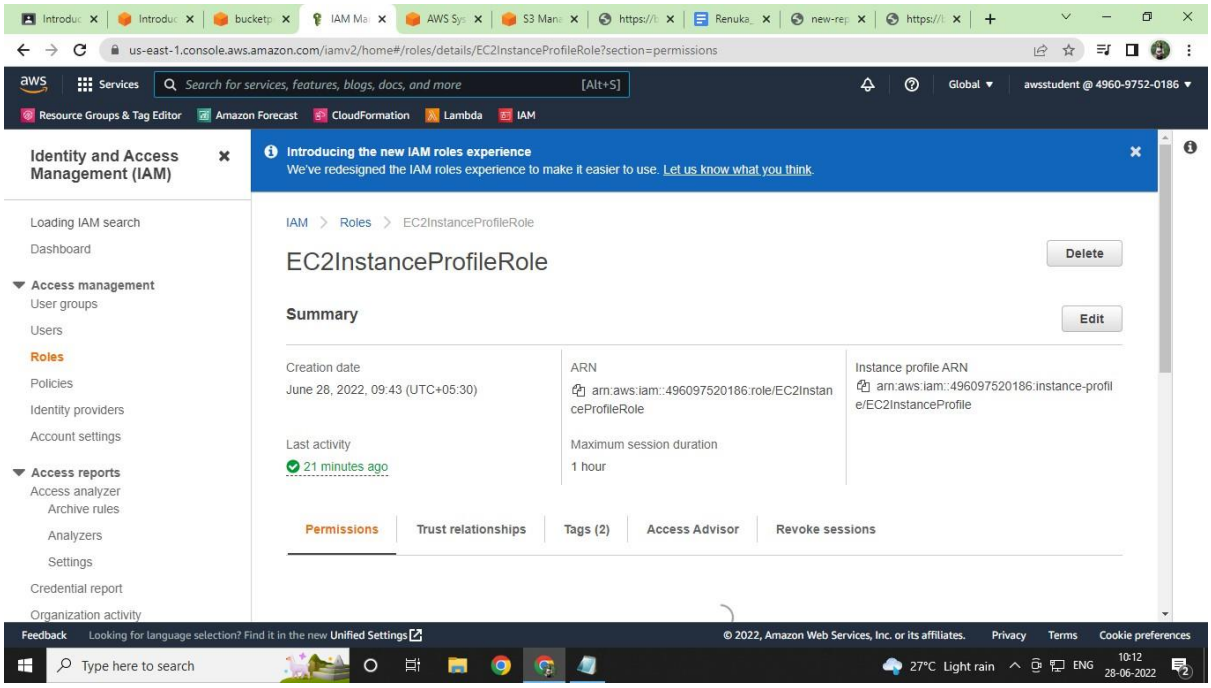
Amazon S3 does not require region or account-id parameters in ARNs, so those sections are left blank. However, the ":" to separate the sections is still used, so it looks similar to arn:aws:s3.reportbucket 987987

Amazon S3 does not require region or account-id parameters in ARNs, so those sections are left blank. However, the ": to separate the sections is still used, so it looks similar to arnaws:s3.reportbucket987987

Refer to the Amazon Resource Names (ARNS) and AWS Service Namespaces documentation link in the Additional Resources section at the end of the lab for more information.



65. Copy the Bucket ARN to a text file to be used in a later step.
It is displayed below the Policy examples
and Policy generator buttons.
It looks like this:
Bucket ARN arn:aws:83::: reportbucket987987
66. Choose Policy generator
A new web browser tab will open with the AWS Policy Generator.
AWS policies use the JSON format, and are used to configure granular permissions for AWS services. While you can write the policy in JSON manually, the AWS Policy Generator allows you to create it using a friendly web interface.
In the AWS Policy Generator window:

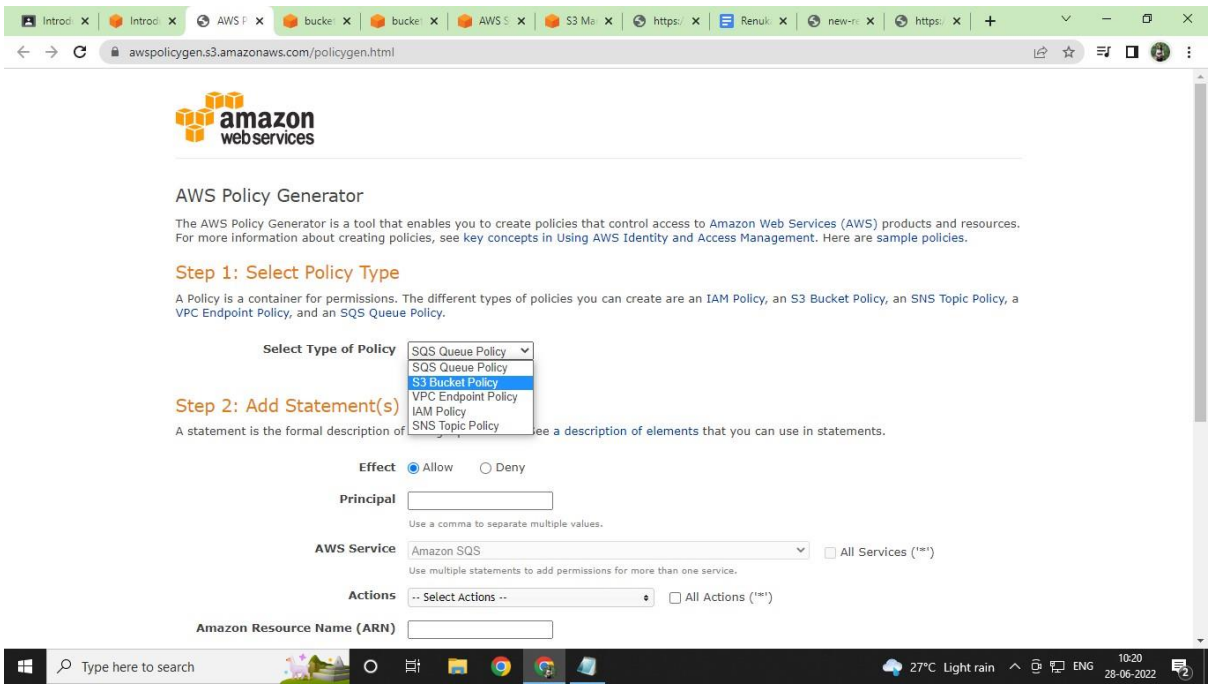


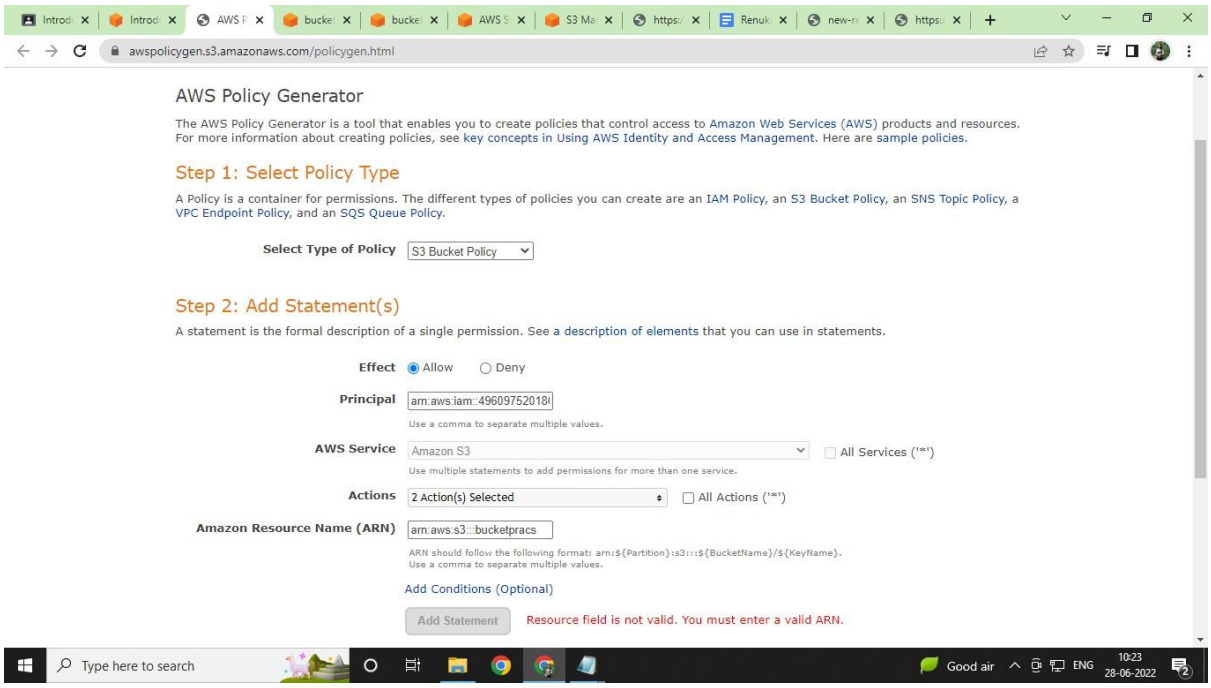
In the AWS Policy Generator window:
• For Select Type of Policy, select S3 Bucket Policy • For Effect, select Allow. • For Principal, paste the EC2InstanceProfileRole ARN that you copied to a text file in a previous step. • For AWS Service, keep the default setting of Amazon S3 • For Actions, select PutObject and GetObject
The get GetObject action grants permission for objects to be retrieved from Amazon S3. Refer to the Additional Resources section at the end of the lab for links to more information about the actions available for use in Amazon S3 policies.
• Amazon Resource Name (ARN): Paste the Bucket ARN that you previously copied. • At the end of the ARN, append /*
The ARN should look similar to: arn:aws:3:"reportbucket987987/*

An Amazon Resource Name (ARN) is a standard way to refer to resources within AWS. In this case, the ARN is referring to your S3 bucket. Adding to the end of the bucket name allows the policy to apply to all objects within the bucket.

67. Choose Add Statement. The details of the statement you configured are added to a table below the button. You can add multiple statements to a policy

68. Choose Generate Policy.

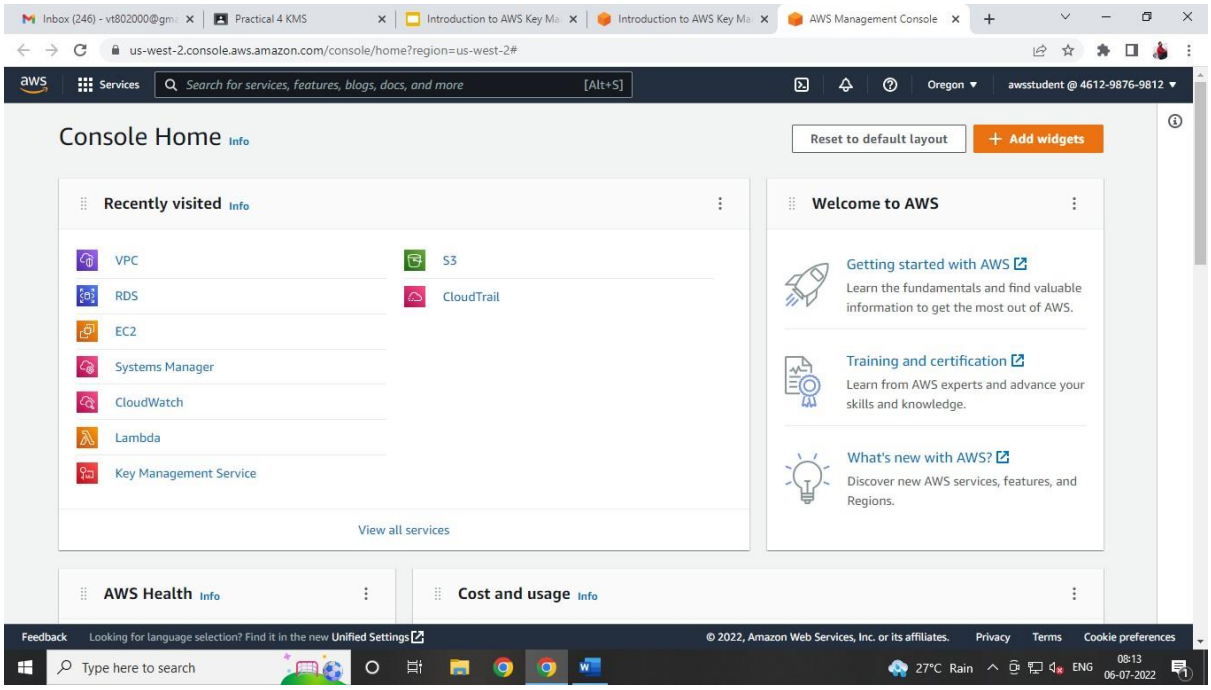




Practical No.4

Introduction to AWS Key Management Service

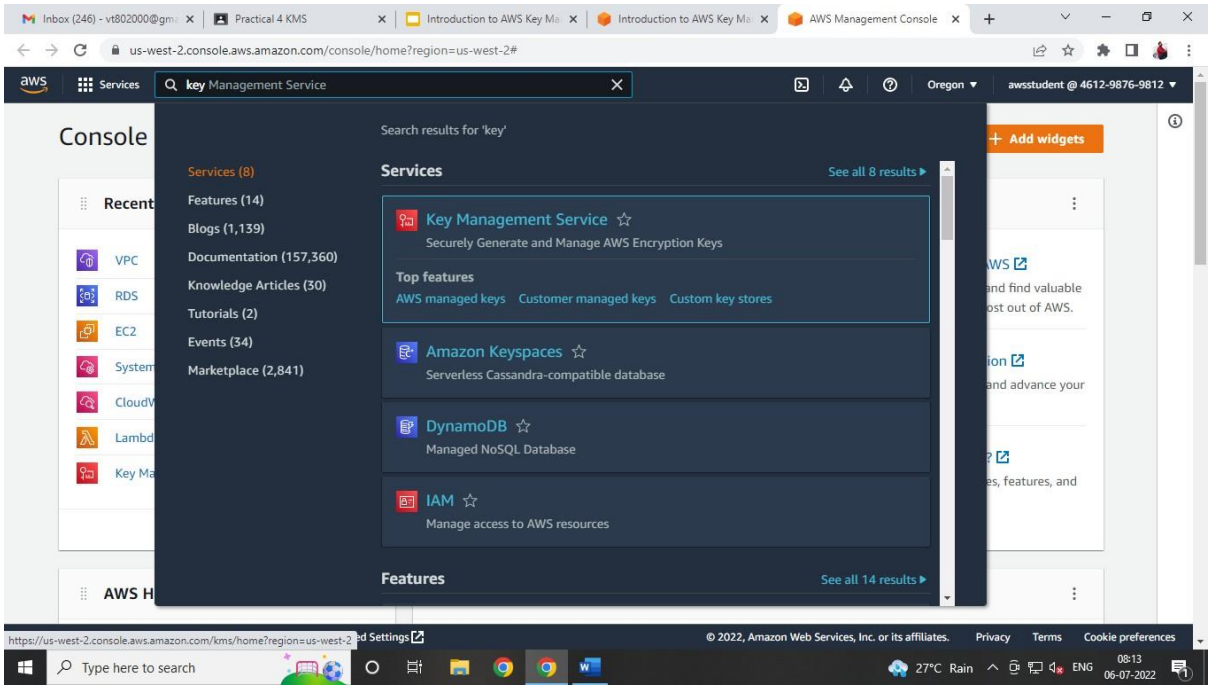
Task 1: create your kms master key



Task 1: Create Your KMS Master Key In this task you will create a KMS master key. A KMS master key enables you to easily encrypt your data across AWS services and within your own applications.

3. In the AWS Management Console, on the Services menu, click Key Management Service.

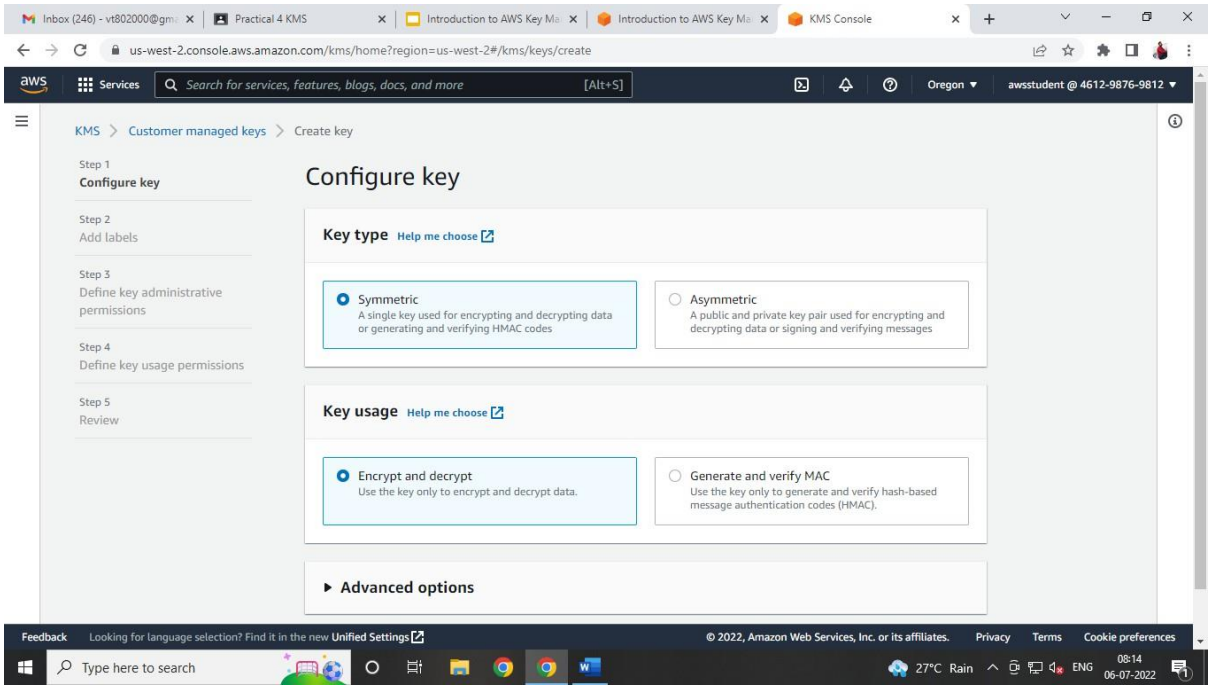
4. Click Create a key then configure: Symmetric • On the Configure key page, select • Click Next Took 1: Create Your VS Hoster key 5. On the Add labels page configure:



5. On the Add labels page configure: • Alias: myFirstKey • Description: KMS Key for s3 data • Click Next It is a good practice to describe what services the encryption key will be associated with in the description. the user or role you're

6. On the Define key administrative permissions, select signed into the Console with. This user is displayed at the top of the page, to the right of the region.

7. Click Next



Key Administrators are users or roles that will manage access to the encryption key. the user or role you're

8. On the Define key usage permissions page, select signed into the Console with.

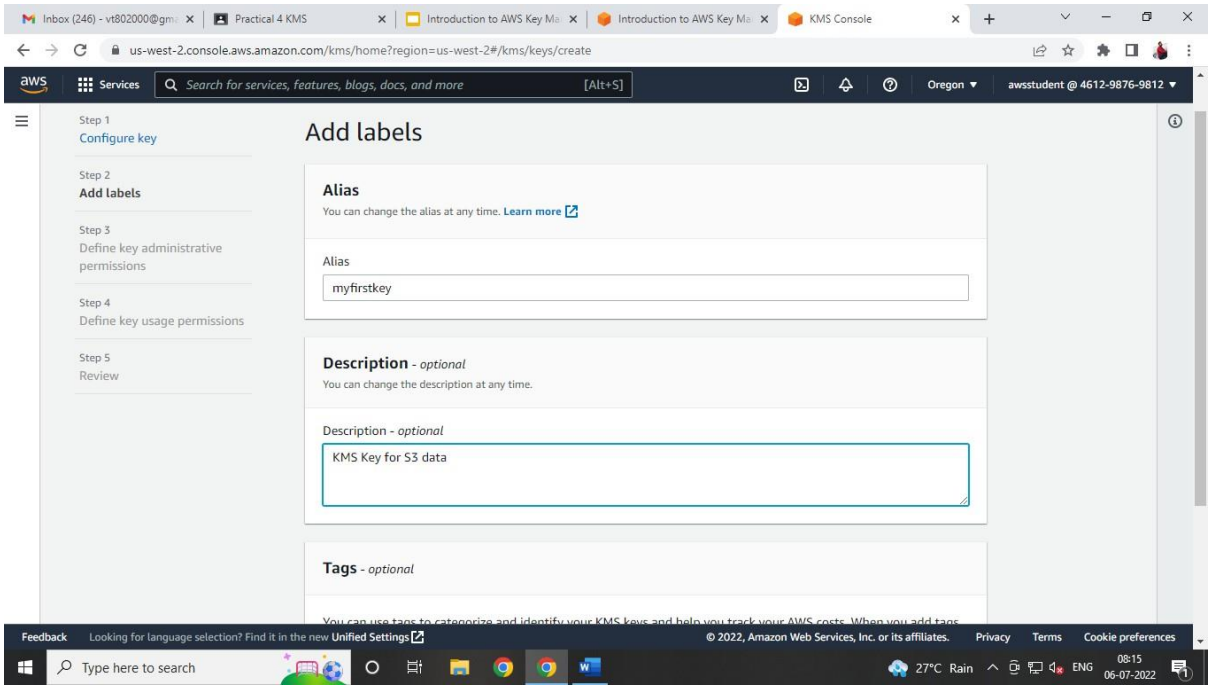
9. Click Next

Key Users are the users or roles that will use the key to encrypt and decrypt data.

10. On the Review and edit key policy page:

- Review the key policy
- Click Finish

11. Copy the Key ID for myFirstKey to a text editor. You will use the Key ID later when looking at the log activity for this KMS key.

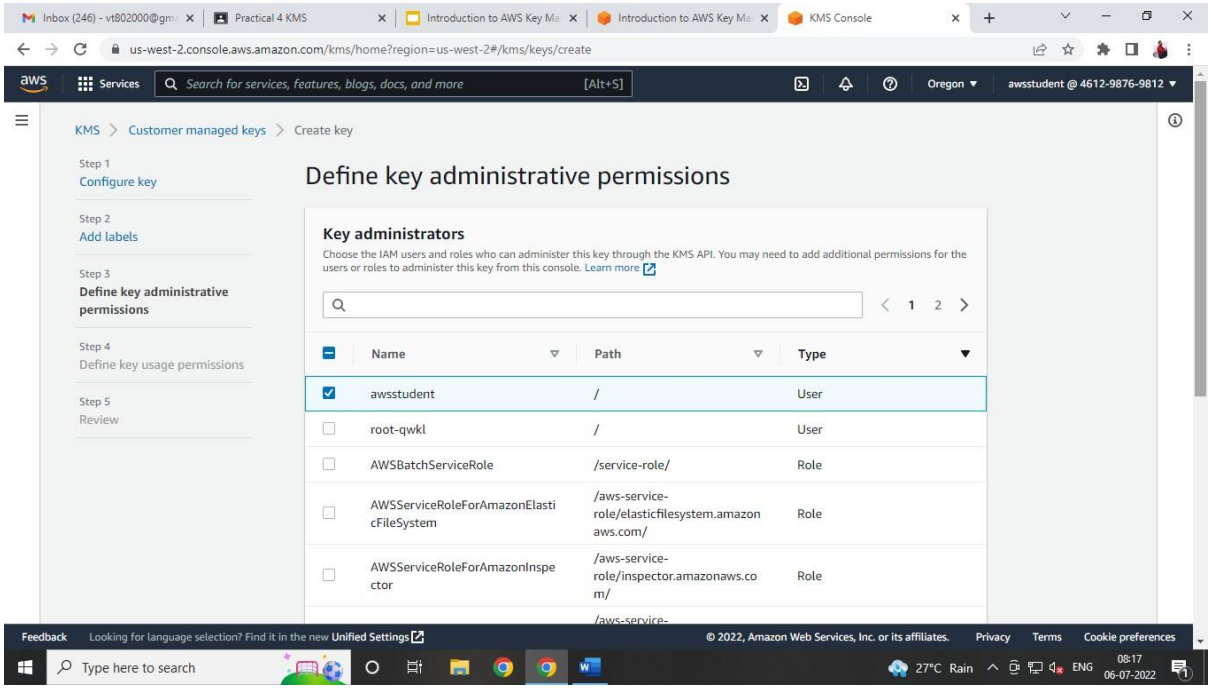


Task 2: Configure Cloud Trail to Store Logs In An S3 Bucket In this task you will configure CloudTrail to store log files in a new S3 bucket.

12. On the Services menu, click CloudTrail.

13. If you see the New Event history features available in the new Cloud Trail console with Try out the new console, click Try out the new console, otherwise you can ignore this warning. Task 2: Configure Cloudfrailte Store Logs in An S3 Bucket

14. If you see a warning saying The option to create an organization trail is not available for this AWS account, you can ignore this warning.


Inbox (246) - vt802000@gm
Practical 4 KMS
Introduction to AWS Key Ma
Introduction to AWS Key Ma
KMS Console
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/create
Services
Search for services, features, blogs, docs, and more
[Alt+S]
Oregon
awsstudent @ 4612-9876-9812
KMS > Customer managed keys > Create key
Step 1
Configure key
Step 2
Add labels
Step 3
Define key administrative permissions
Step 4
Define key usage permissions
Step 5
Review
Define key administrative permissions
Key administrators
Choose the IAM users and roles who can administer this key through the KMS API. You may need to add additional permissions for the users or roles to administer this key from this console. Learn more
Name
Path
Type
awsstudent / User
root-qwkl / User
AWSBatchServiceRole /service-role/ Role
AWSServiceRoleForAmazonElasticFileSystem /aws-service-role/elasticfilesystem.amazonaws.com/ Role
AWSServiceRoleForAmazonInspector /aws-service-role/inspector.amazonaws.com/ Role
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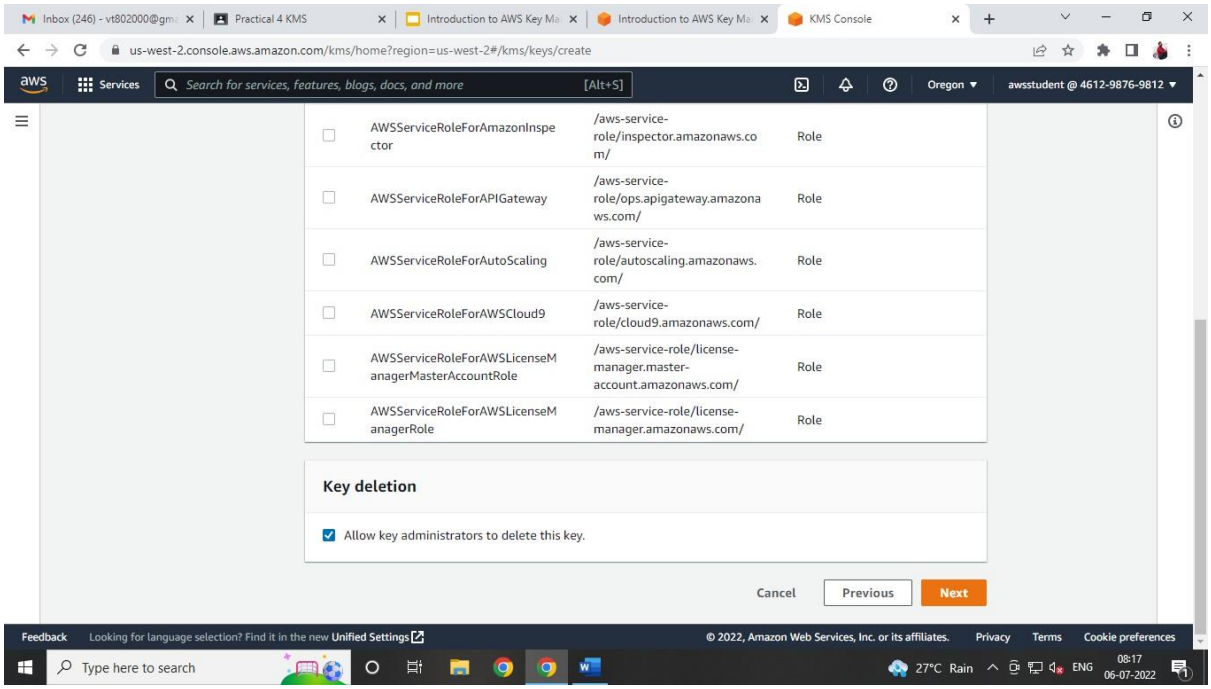
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Practical 4 KMS
Introduction to AWS Key Ma
Introduction to AWS Key Ma
KMS Console
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/create
Services
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AWSServiceRoleForAmazonInspector /aws-service-role/inspector.amazonaws.com/ Role
AWSServiceRoleForAPIGateway /aws-service-role/ops.apigateway.amazonaws.com/ Role
AWSServiceRoleForAutoScaling /aws-service-role/autoscaling.amazonaws.com/ Role
AWSServiceRoleForAWSCloud9 /aws-service-role/cloud9.amazonaws.com/ Role
AWSServiceRoleForAWSLicenseManagerMasterAccountRole /aws-service-role/license-manager.master-account.amazonaws.com/ Role
AWSServiceRoleForAWSLicenseManagerRole /aws-service-role/license-manager.amazonaws.com/ Role
Key deletion
Allow key administrators to delete this key.
Cancel
Previous
Next
Feedback
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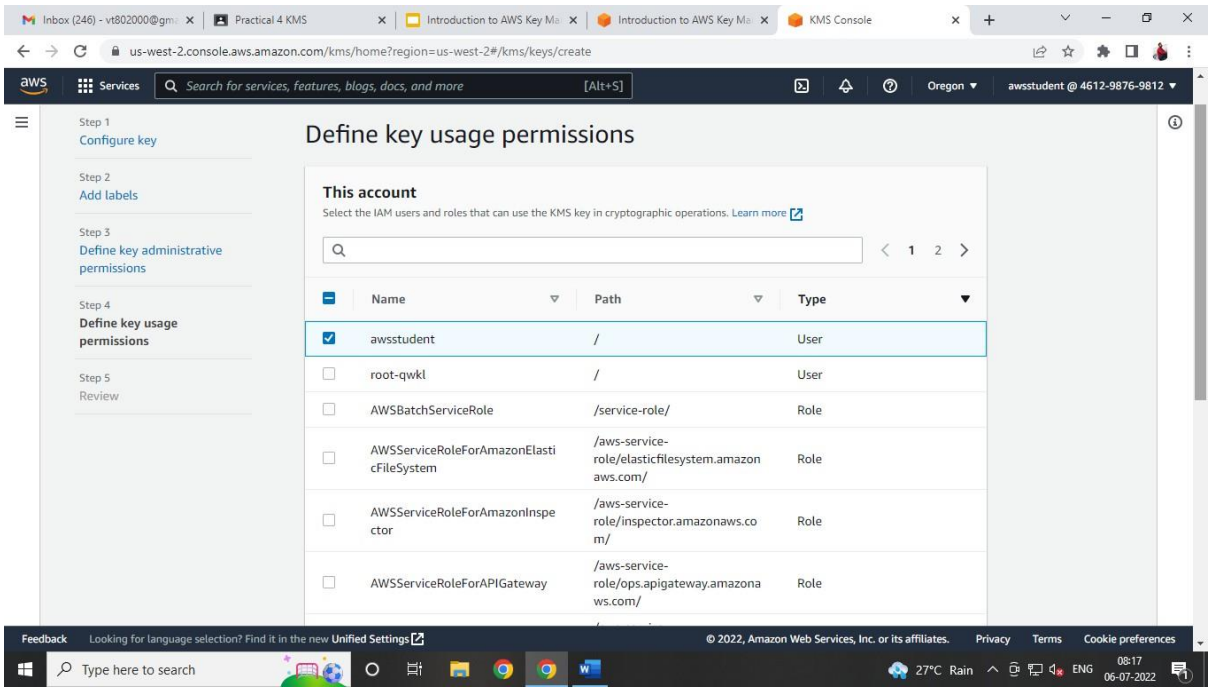
Inbox (246) - vt802000@gm
Practical 4 KMS
Introduction to AWS Key Ma
Introduction to AWS Key Ma
KMS Console
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/create
Services
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awsstudent @ 4612-9876-9812
Step 1
Configure key
Step 2
Add labels
Step 3
Define key administrative permissions
Step 4
Define key usage permissions
Step 5
Review
Define key usage permissions
This account
Select the IAM users and roles that can use the KMS key in cryptographic operations. Learn more
Name
Path
Type
awsstudent
/
User
root-qwkl
/
User
AWSBatchServiceRole
/service-role/
Role
AWSServiceRoleForAmazonElasticFileSystem
/aws-service-role/elasticfilesystem.amazonaws.com/
Role
AWSServiceRoleForAmazonInspector
/aws-service-role/inspector.amazonaws.com/
Role
AWSServiceRoleForAPIGateway
/aws-service-role/ops.apigateway.amazonaws.com/
Role
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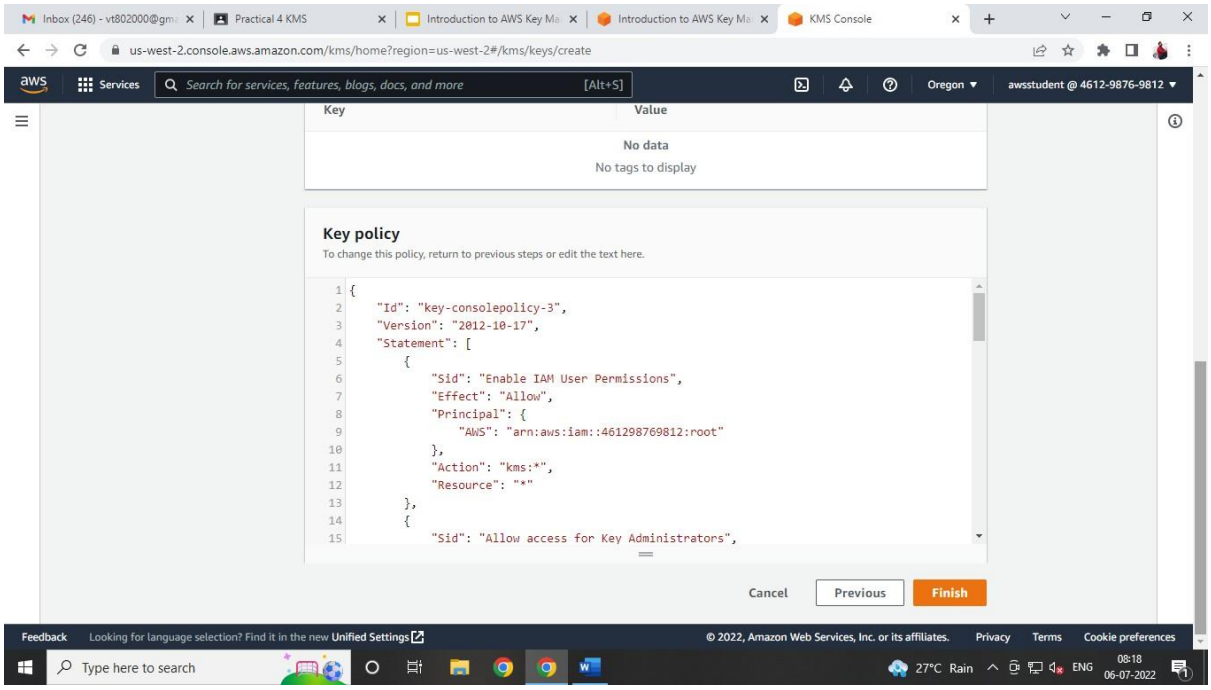
Inbox (246) - vt802000@gm
Practical 4 KMS
Introduction to AWS Key Ma
Introduction to AWS Key Ma
KMS Console
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/create
Services
Search for services, features, blogs, docs, and more
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Key
Value
No data
No tags to display
Key policy
To change this policy, return to previous steps or edit the text here.
{
"Id": "key-consolepolicy-3",
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Enable IAM User Permissions",
"Effect": "Allow",
"Principal": {
"AWS": "arn:aws:iam::461298769812:root"
},
"Action": "kms:*",
"Resource": "*"
},
{
"Sid": "Allow access for Key Administrators",
Cancel
Previous
Finish
Feedback
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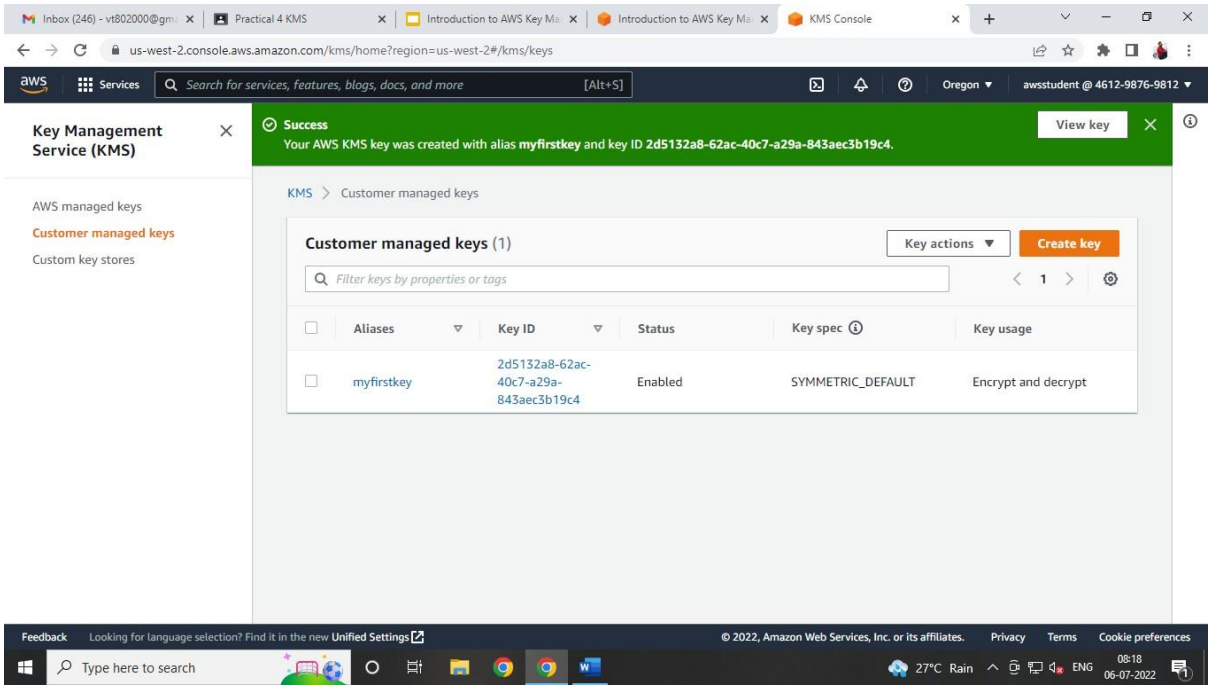
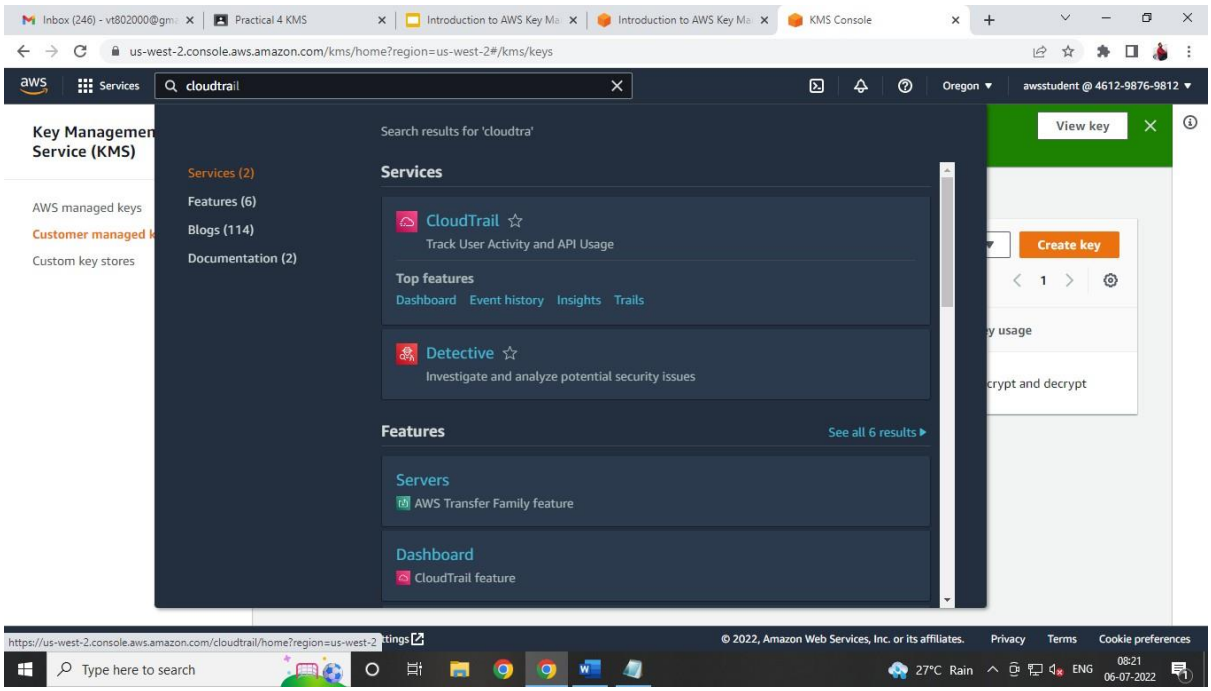
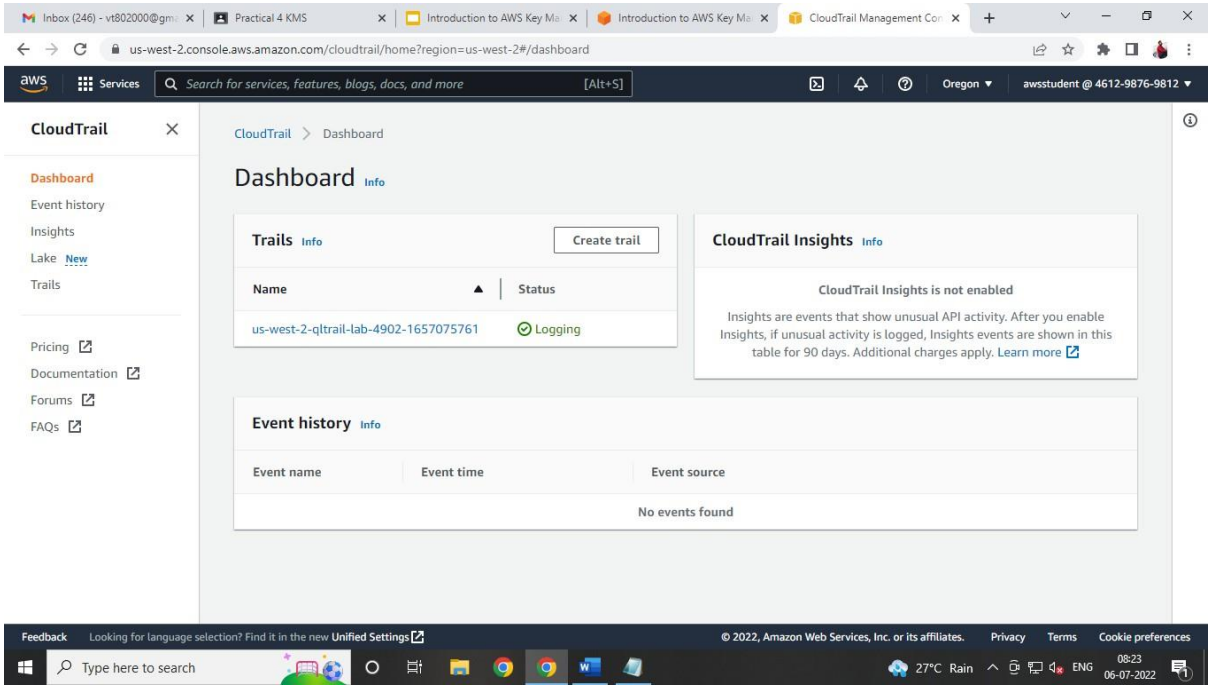


Task—2 configure cloud trail to store log in s3e bucket




us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/dashboard
Services
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CloudTrail
Dashboard
Event history
Insights
Lake New
Trails
Pricing
Documentation
Forums
FAQs
CloudTrail > Dashboard
Dashboard Info
Trails Info
Create trail
Name
Status
us-west-2-qltrail-lab-4902-1657075761
Logging
CloudTrail Insights Info
CloudTrail Insights is not enabled
Insights are events that show unusual API activity. After you enable Insights, if unusual activity is logged, Insights events are shown in this table for 90 days. Additional charges apply. Learn more
Event history Info
Event name
Event time
Event source
No events found
Feedback
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ENG
08:23
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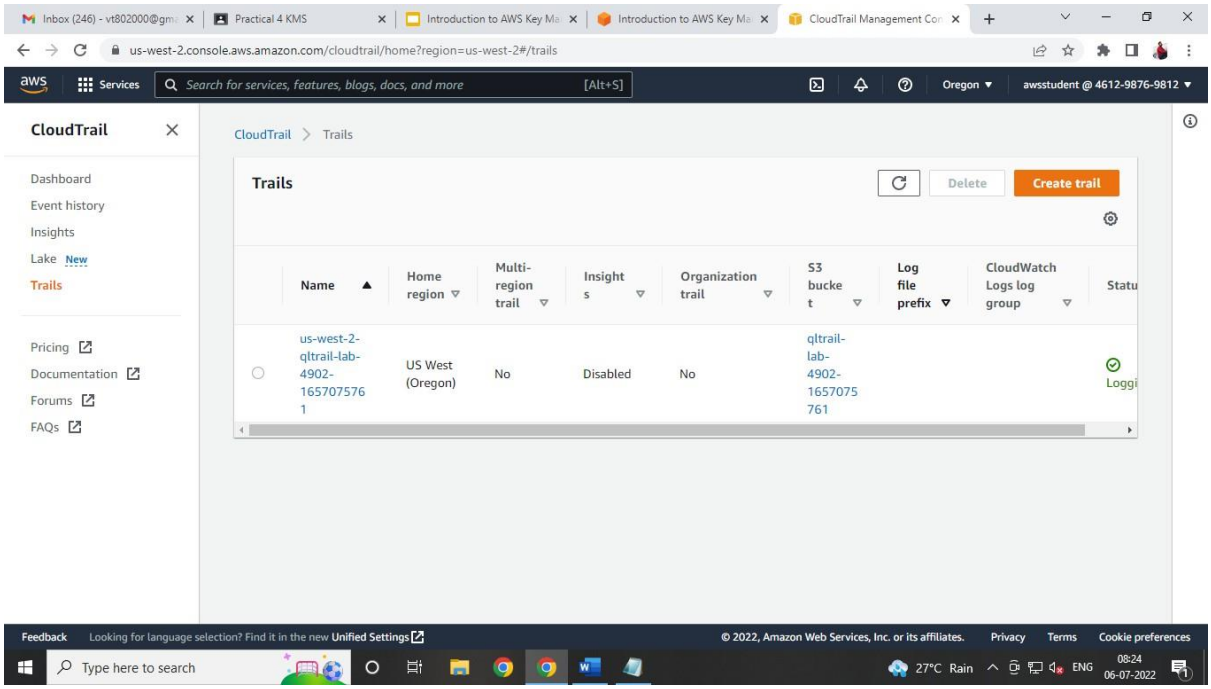
us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/trails
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CloudTrail
Dashboard
Event history
Insights
Lake New
Trails
Pricing
Documentation
Forums
FAQs
CloudTrail > Trails
Trails
Delete
Create trail
Name
Home region
Multi-region trail
Insights
Organization trail
S3 bucket
Log file prefix
CloudWatch Logs log group
Statu
us-west-2-qltrail-lab-4902-1657075761
US West (Oregon)
No
Disabled
No
qltrail-lab-4902-1657075761
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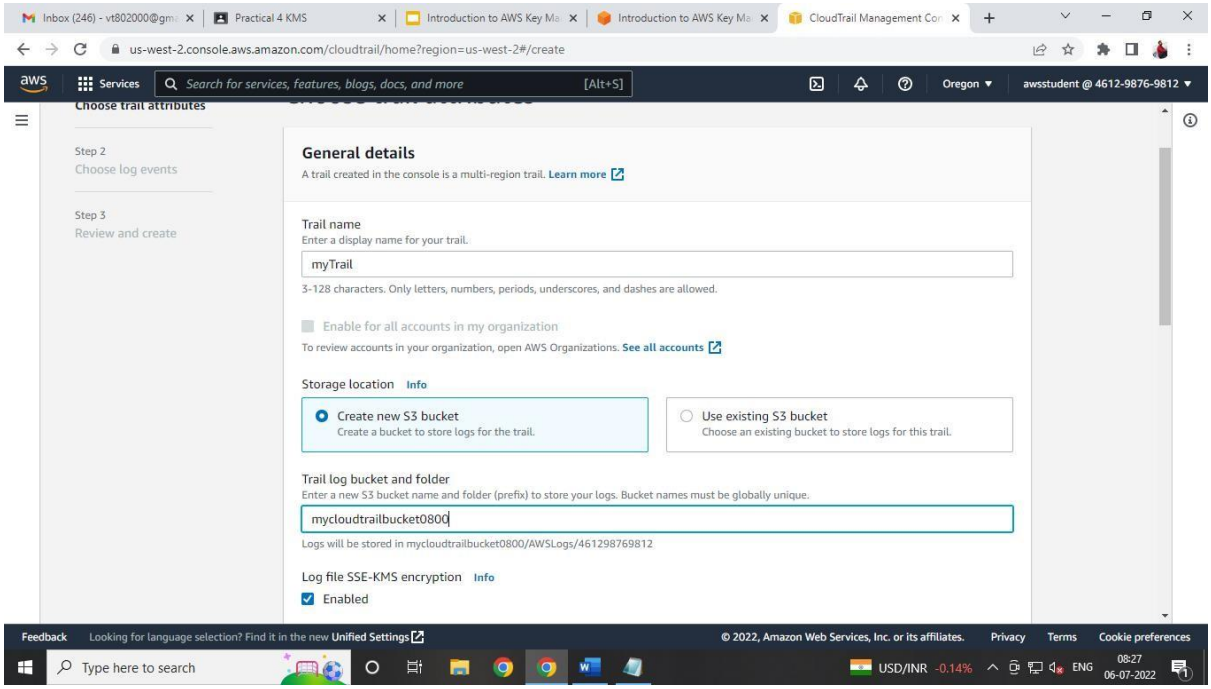
us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/create
Choose trail attributes
Step 2
Choose log events
Step 3
Review and create
General details
A trail created in the console is a multi-region trail. Learn more
Trail name
Enter a display name for your trail.
myTrail
3-128 characters. Only letters, numbers, periods, underscores, and dashes are allowed.
Enable for all accounts in my organization
To review accounts in your organization, open AWS Organizations. See all accounts
Storage location Info
Create new S3 bucket
Create a bucket to store logs for the trail.
Use existing S3 bucket
Choose an existing bucket to store logs for this trail.
Trail log bucket and folder
Enter a new S3 bucket name and folder (prefix) to store your logs. Bucket names must be globally unique.
mycloudtrailbucket0800
Logs will be stored in mycloudtrailbucket0800/AWSLogs/461298769812
Log file SSE-KMS encryption Info
Enabled
Feedback
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USD/INR -0.14%
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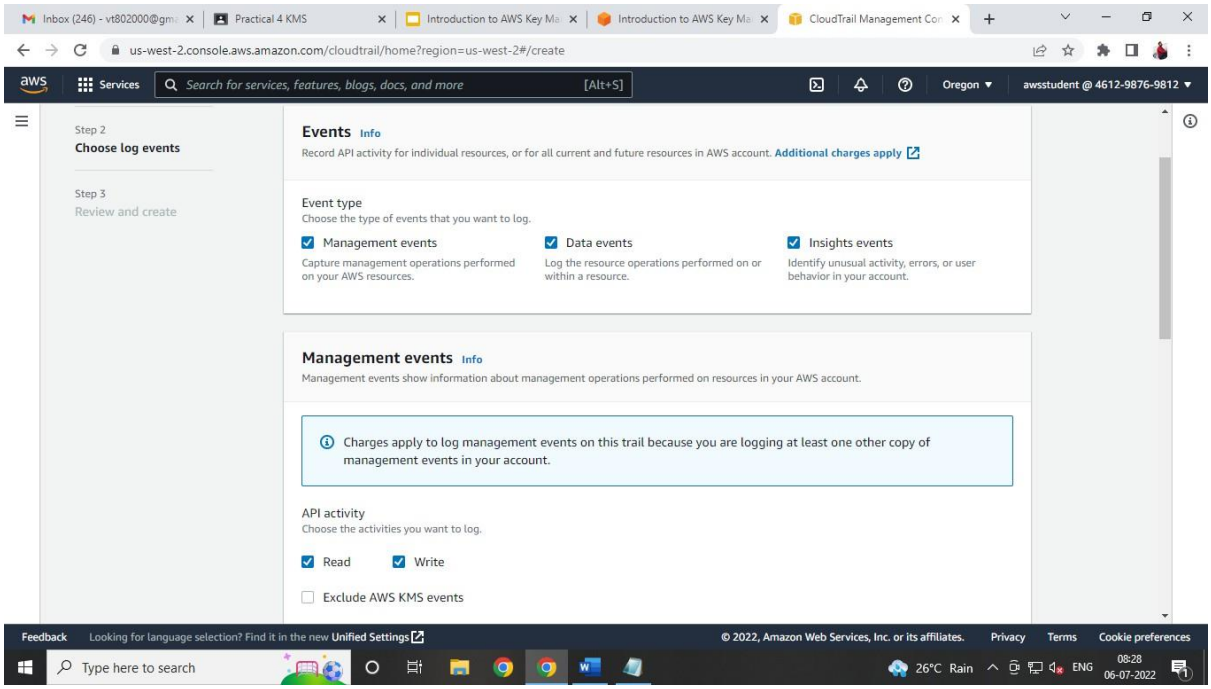
us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/create
Step 2
Choose log events
Step 3
Review and create
Events Info
Record API activity for individual resources, or for all current and future resources in AWS account. Additional charges apply
Event type
Choose the type of events that you want to log.
Management events
Capture management operations performed on your AWS resources.
Data events
Log the resource operations performed on or within a resource.
Insights events
Identify unusual activity, errors, or user behavior in your account.
Management events Info
Management events show information about management operations performed on resources in your AWS account.
Charges apply to log management events on this trail because you are logging at least one other copy of management events in your account.
API activity
Choose the activities you want to log.
Read
Write
Exclude AWS KMS events
Feedback
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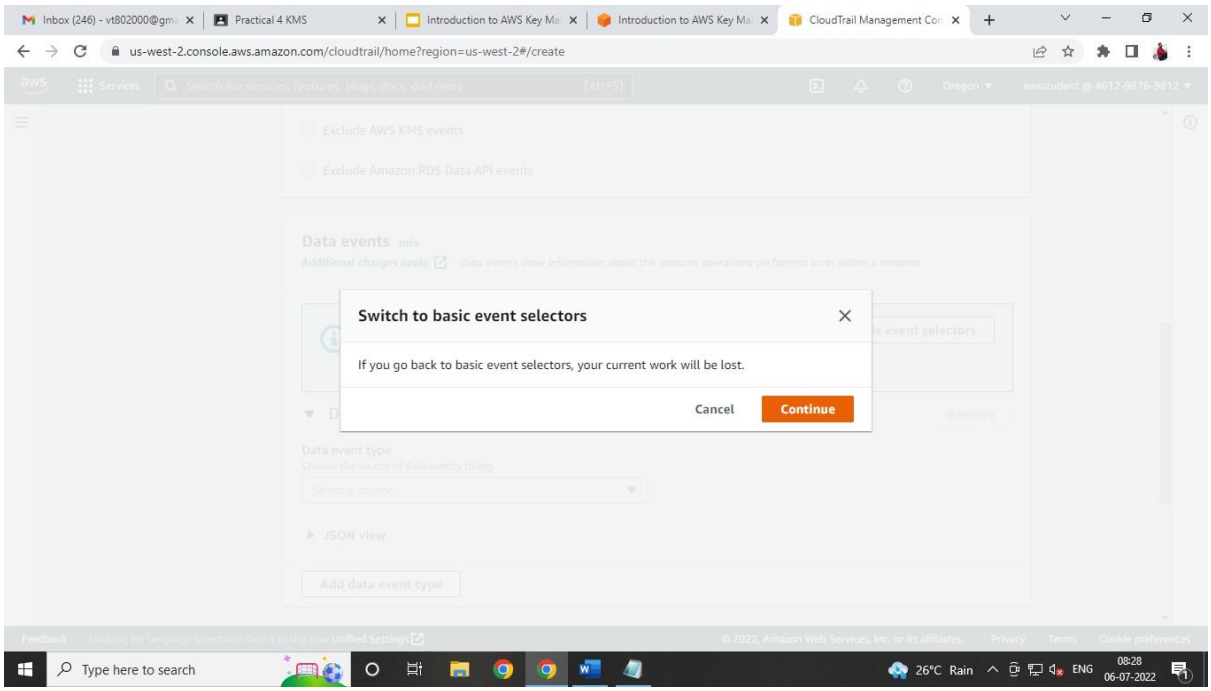
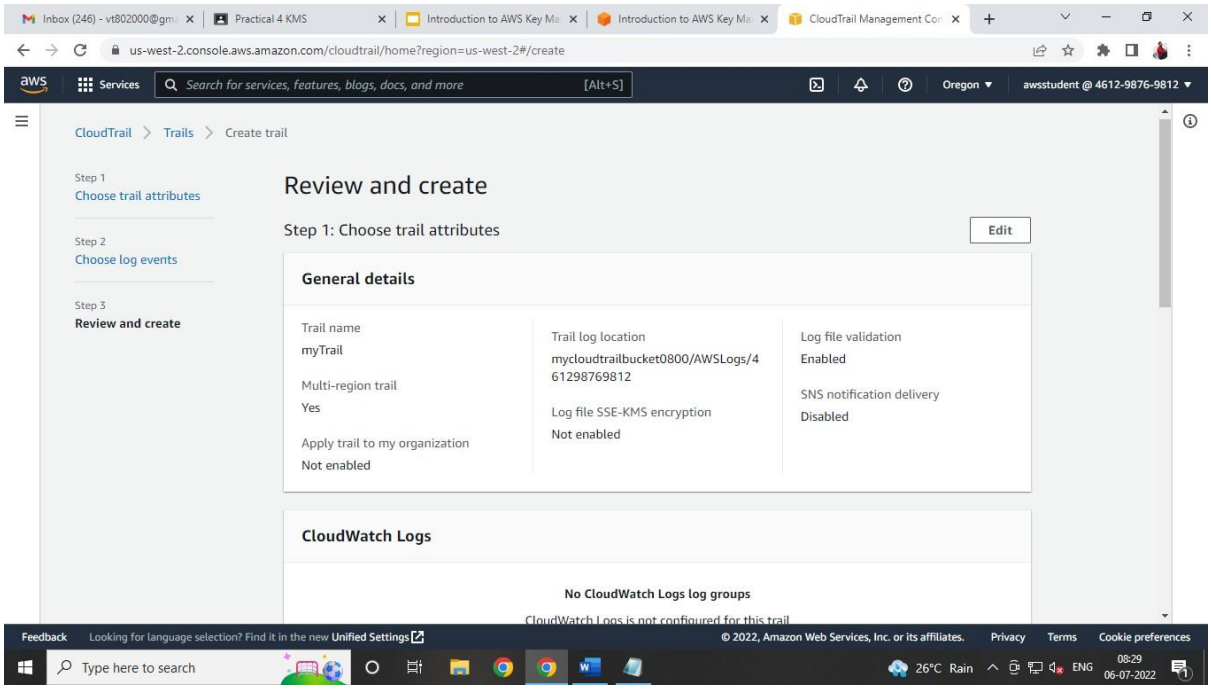

Switch to basic event selectors
If you go back to basic event selectors, your current work will be lost.
Cancel
Continue


CloudTrail > Trails > Create trail
Step 1
Choose trail attributes
Step 2
Choose log events
Step 3
Review and create
Review and create
Step 1: Choose trail attributes
Edit
General details
Trail name
myTrail
Multi-region trail
Yes
Apply trail to my organization
Not enabled
Trail log location
mycloudtrailbucket0800/AWSLogs/461298769812
Log file SSE-KMS encryption
Not enabled
Log file validation
Enabled
SNS notification delivery
Disabled
CloudWatch Logs
No CloudWatch Logs log groups
CloudWatch Logs is not configured for this trail
Feedback
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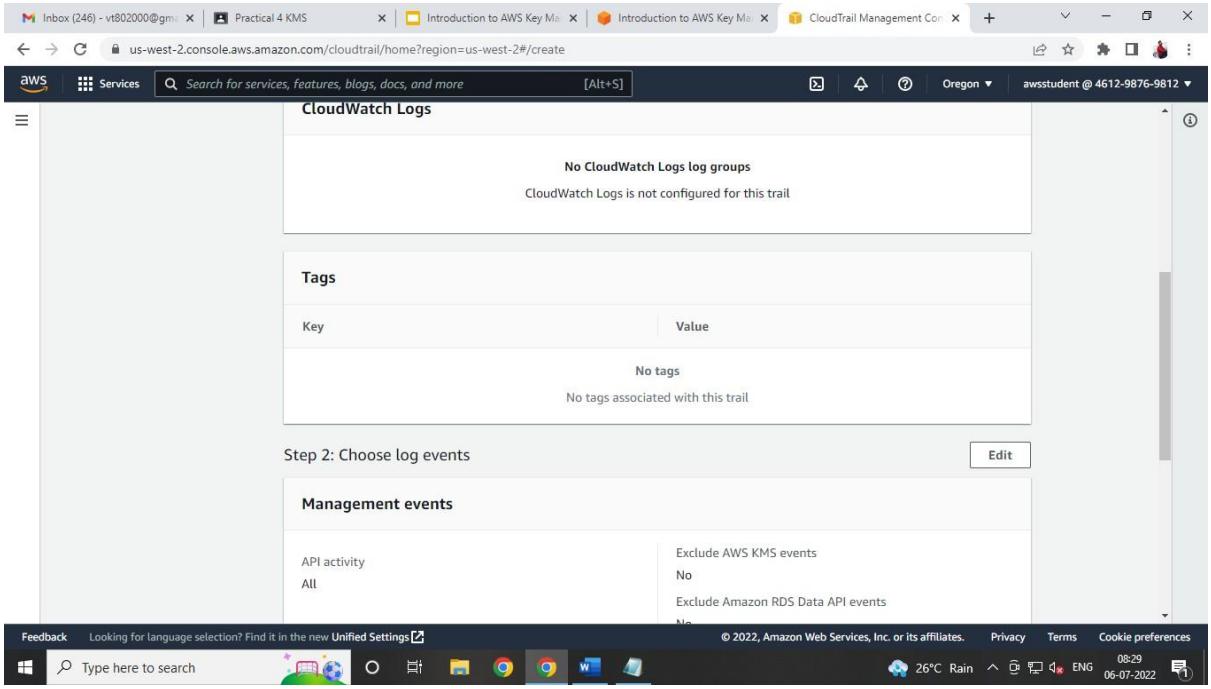
us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/create
Search for services, features, blogs, docs, and more [Alt+S]
Oregon
awsstudent @ 4612-9876-9812
CloudWatch Logs
No CloudWatch Logs log groups
CloudWatch Logs is not configured for this trail
Tags
Key
Value
No tags
No tags associated with this trail
Step 2: Choose log events
Edit
Management events
API activity
All
Exclude AWS KMS events
No
Exclude Amazon RDS Data API events
Feedback
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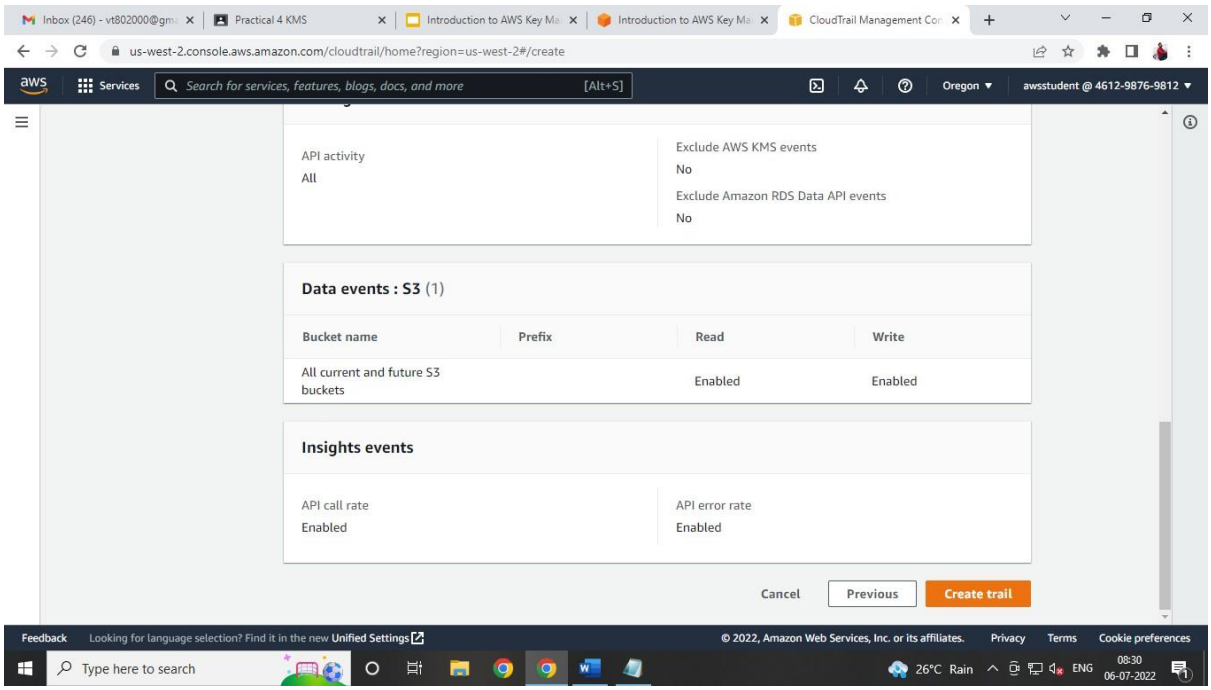
26°C Rain
ENG
08:29
06-07-2022


us-west-2.console.aws.amazon.com/cloudtrail/home?region=us-west-2#/create
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API activity
All
Exclude AWS KMS events
No
Exclude Amazon RDS Data API events
No
Data events : S3 (1)
Bucket name
Prefix
Read
Write
All current and future S3 buckets
Enabled
Enabled
Insights events
API call rate
Enabled
API error rate
Enabled
Cancel
Previous
Create trail
Feedback
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ENG
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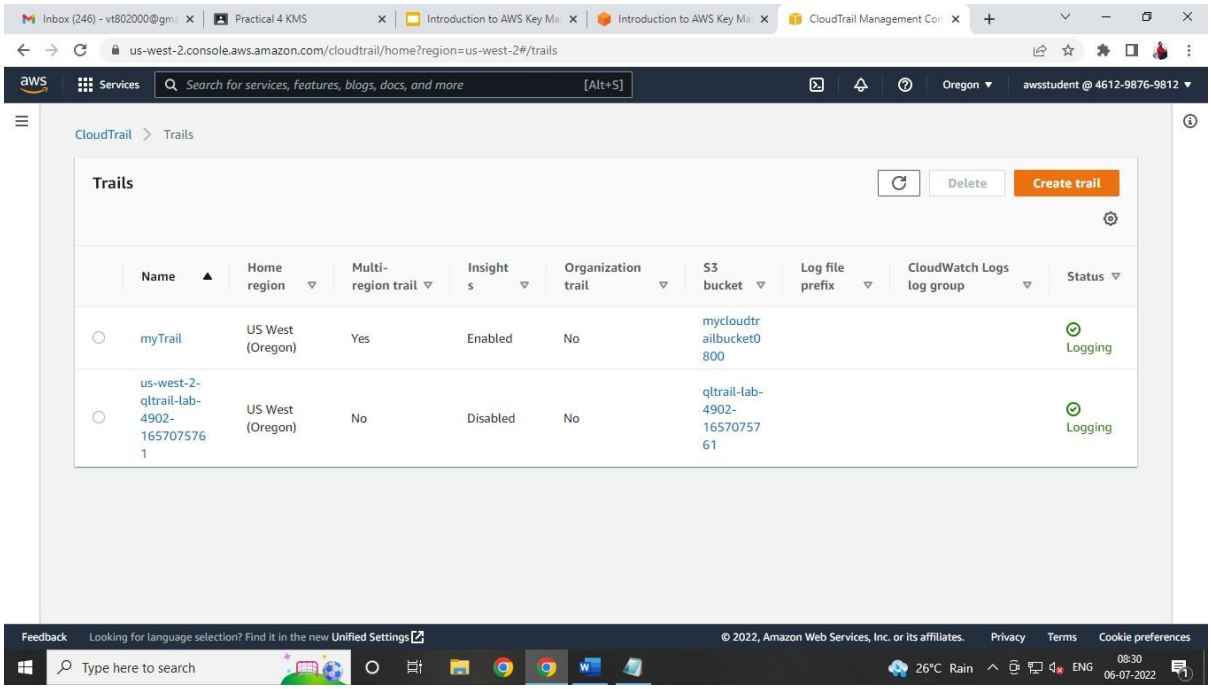
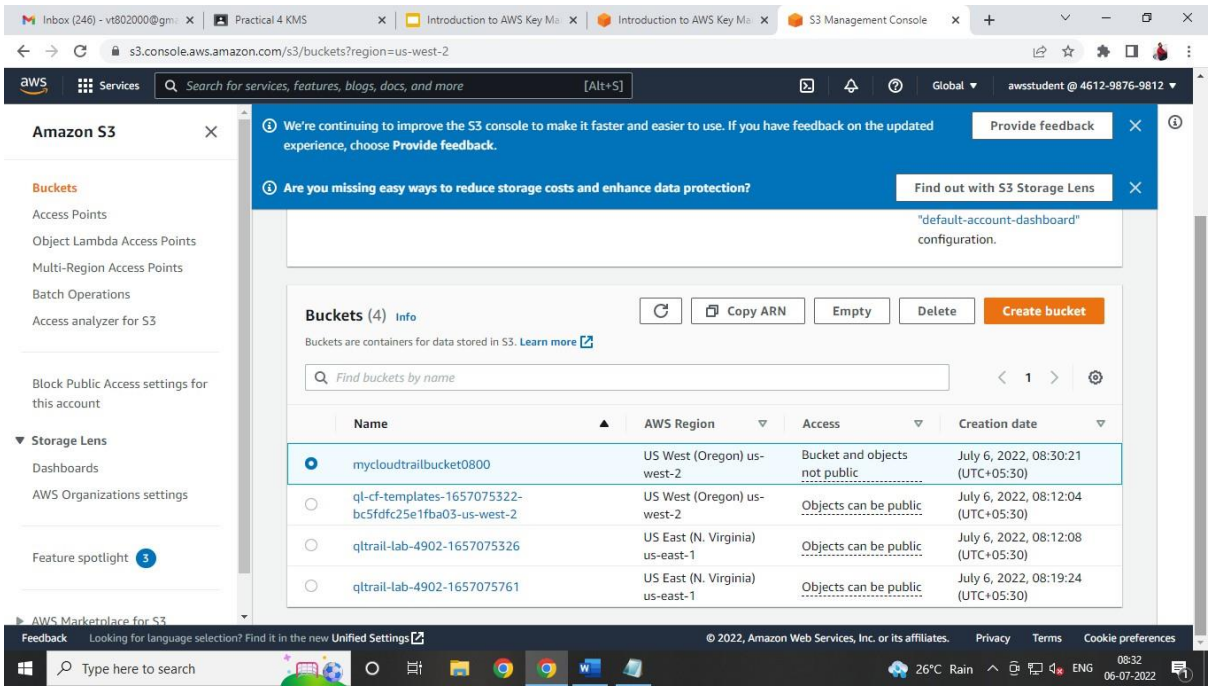
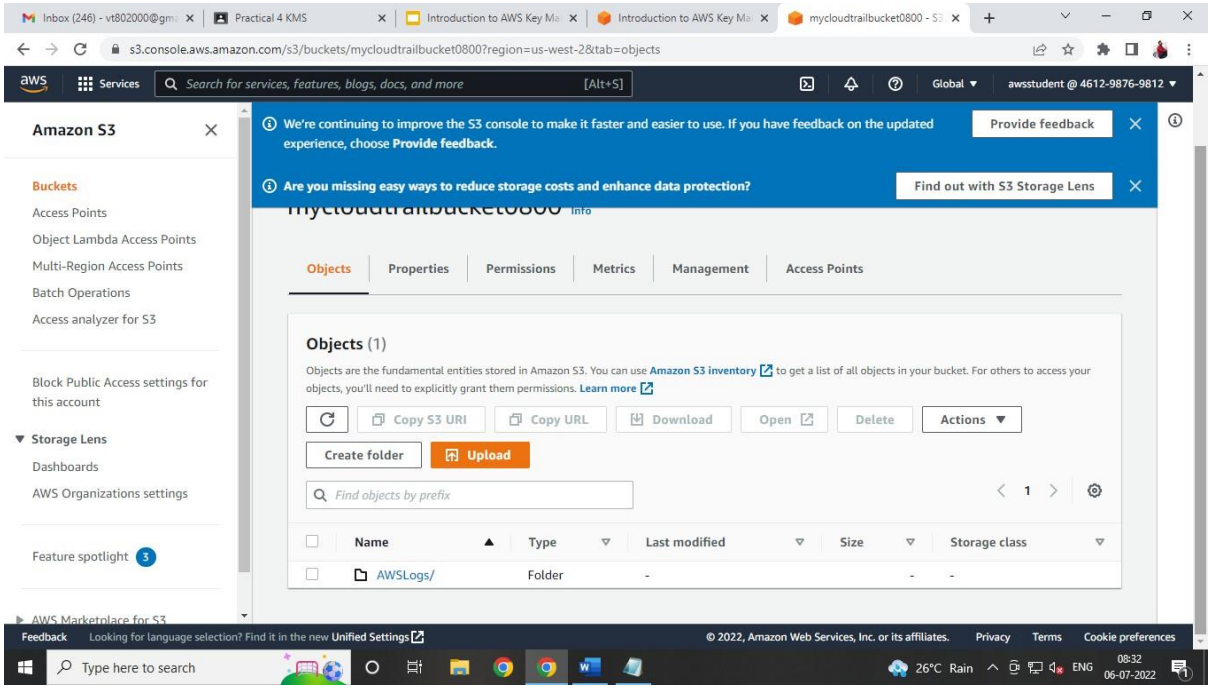


Task -3 upload to your image to s3 bucket




s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&tab=objects
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Are you missing easy ways to reduce storage costs and enhance data protection?
Find out with S3 Storage Lens
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
AWSLogs/
Folder
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Terms
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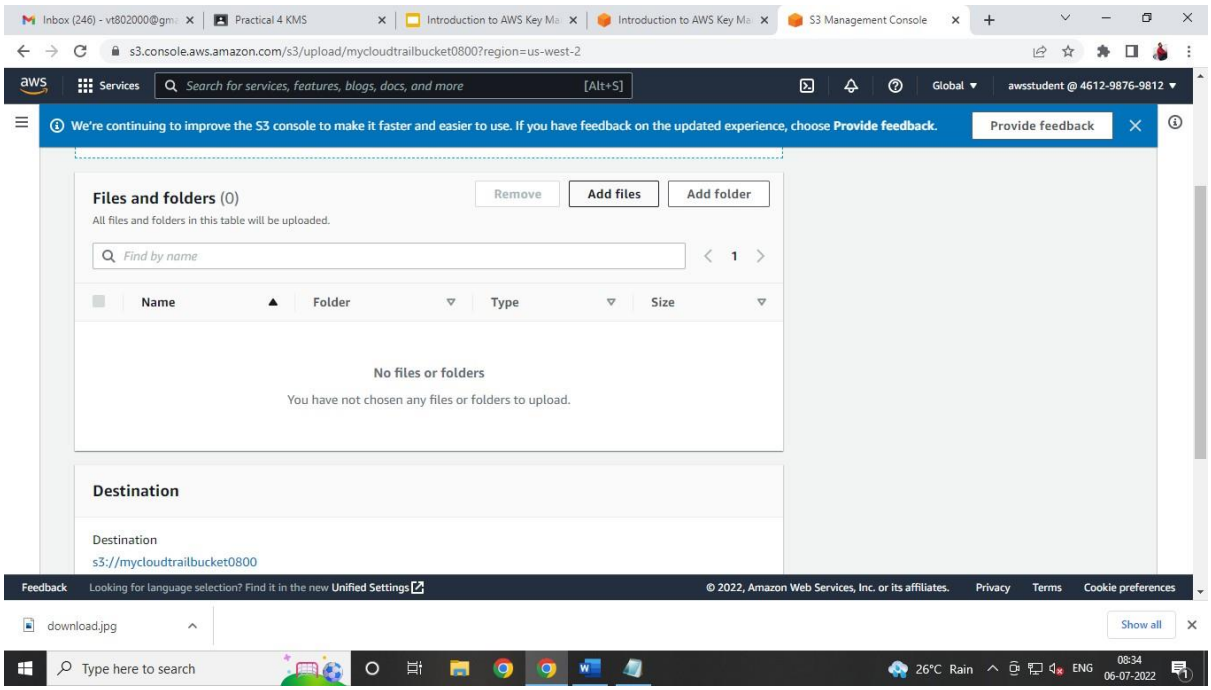
s3.console.aws.amazon.com/s3/upload/mycloudtrailbucket0800?region=us-west-2
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Files and folders (0)
All files and folders in this table will be uploaded.
Remove
Add files
Add folder
Find by name
Name
Folder
Type
Size
No files or folders
You have not chosen any files or folders to upload.
Destination
Destination
s3://mycloudtrailbucket0800
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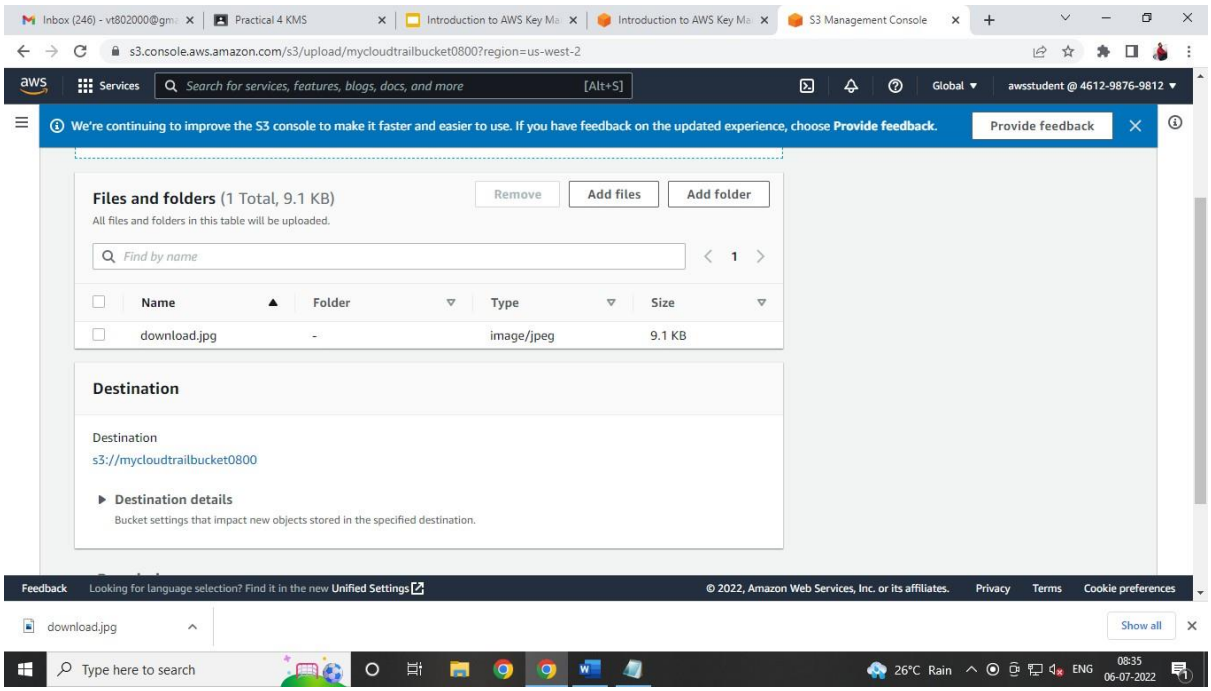
Terms
Cookie preferences
download.jpg
Show all


Inbox (246) - vt802000@gm
Practical 4 KMS
Introduction to AWS Key Ma
Introduction to AWS Key Ma
S3 Management Console
s3.console.aws.amazon.com/s3/upload/mycloudtrailbucket0800?region=us-west-2
Services
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Global
awsstudent @ 4612-9876-9812
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
Files and folders (1 Total, 9.1 KB)
All files and folders in this table will be uploaded.
Remove
Add files
Add folder
Find by name
Name
Folder
Type
Size
download.jpg
-
image/jpeg
9.1 KB
Destination
Destination
s3://mycloudtrailbucket0800
Destination details
Bucket settings that impact new objects stored in the specified destination.
Feedback
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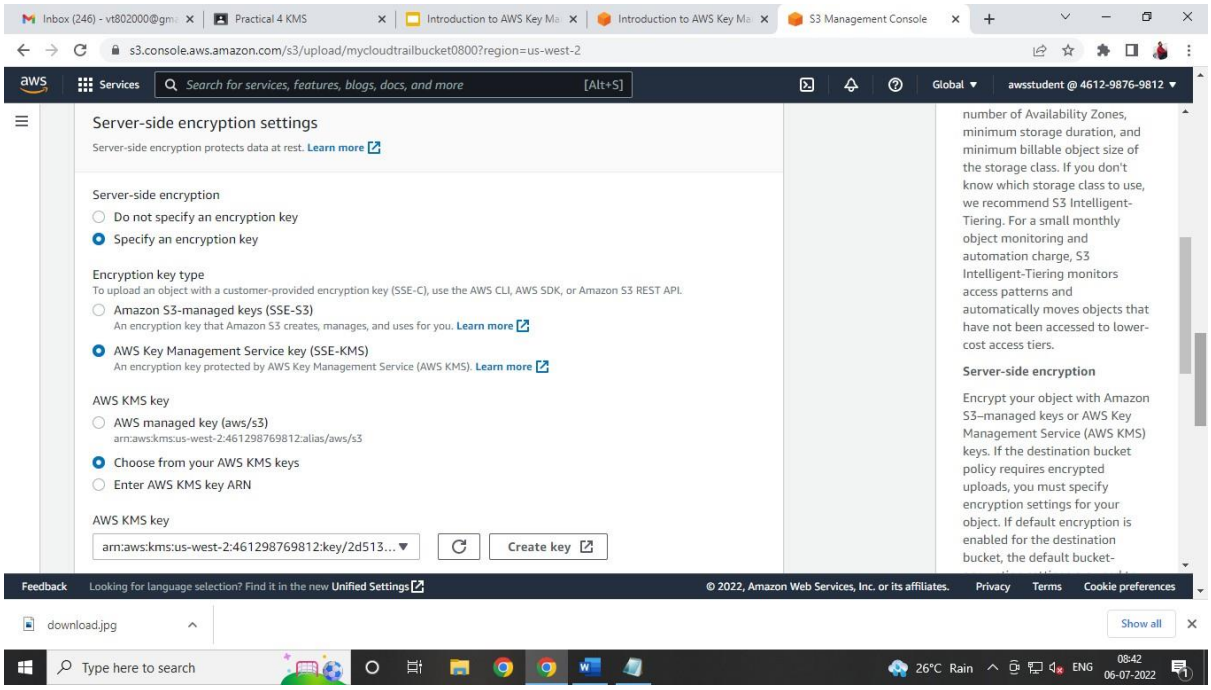
Inbox (246) - vt802000@gm
Practical 4 KMS
Introduction to AWS Key Ma
Introduction to AWS Key Ma
S3 Management Console
s3.console.aws.amazon.com/s3/upload/mycloudtrailbucket0800?region=us-west-2
Services
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Global
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Server-side encryption settings
Server-side encryption protects data at rest. Learn more
Server-side encryption
Do not specify an encryption key
Specify an encryption key
Encryption key type
To upload an object with a customer-provided encryption key (SSE-C), use the AWS CLI, AWS SDK, or Amazon S3 REST API.
Amazon S3-managed keys (SSE-S3)
An encryption key that Amazon S3 creates, manages, and uses for you. Learn more
AWS Key Management Service key (SSE-KMS)
An encryption key protected by AWS Key Management Service (AWS KMS). Learn more
AWS KMS key
AWS managed key (aws/s3)
arn:aws:kms:us-west-2:461298769812:alias/aws/s3
Choose from your AWS KMS keys
Enter AWS KMS key ARN
AWS KMS key
arn:aws:kms:us-west-2:461298769812:key/2d513...
Create key
number of Availability Zones, minimum storage duration, and minimum billable object size of the storage class. If you don't know which storage class to use, we recommend S3 Intelligent-Tiering. For a small monthly object monitoring and automation charge, S3 Intelligent-Tiering monitors access patterns and automatically moves objects that have not been accessed to lower-cost access tiers.
Server-side encryption
Encrypt your object with Amazon S3–managed keys or AWS Key Management Service (AWS KMS) keys. If the destination bucket policy requires encrypted uploads, you must specify encryption settings for your object. If default encryption is enabled for the destination bucket, the default bucket-
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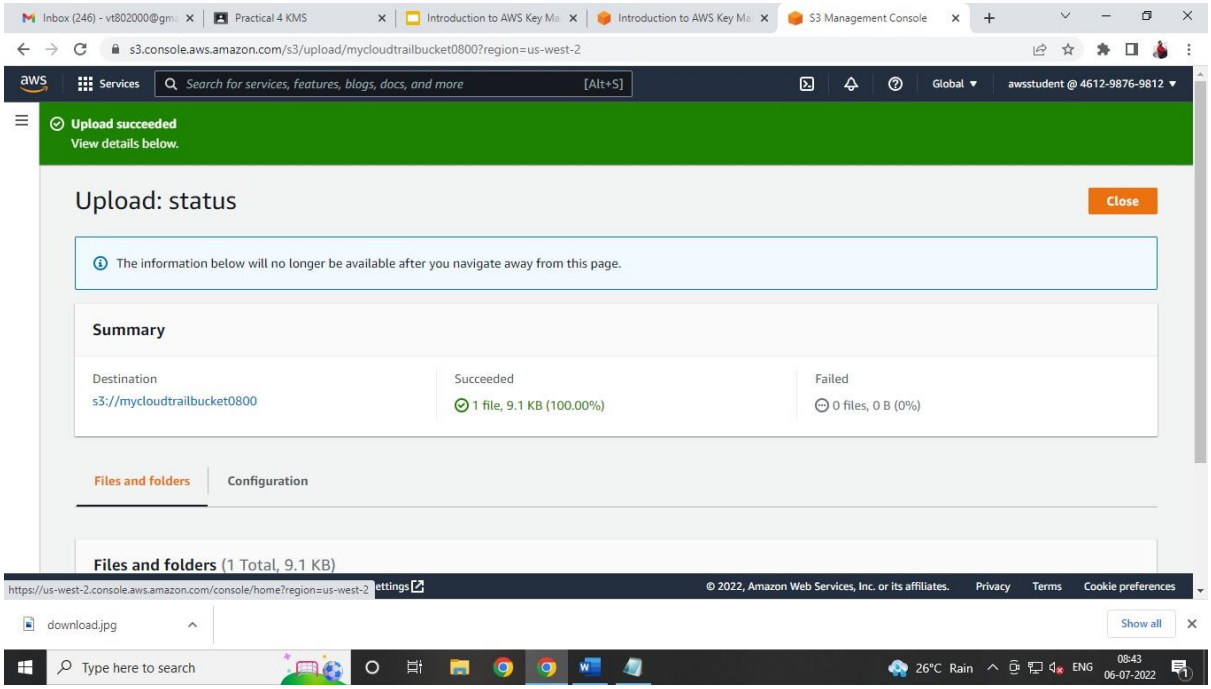
Upload succeeded
View details below.
Upload: status
Close
The information below will no longer be available after you navigate away from this page.
Summary
Destination
s3://mycloudtrailbucket0800
Succeeded
1 file, 9.1 KB (100.00%)
Failed
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (1 Total, 9.1 KB)
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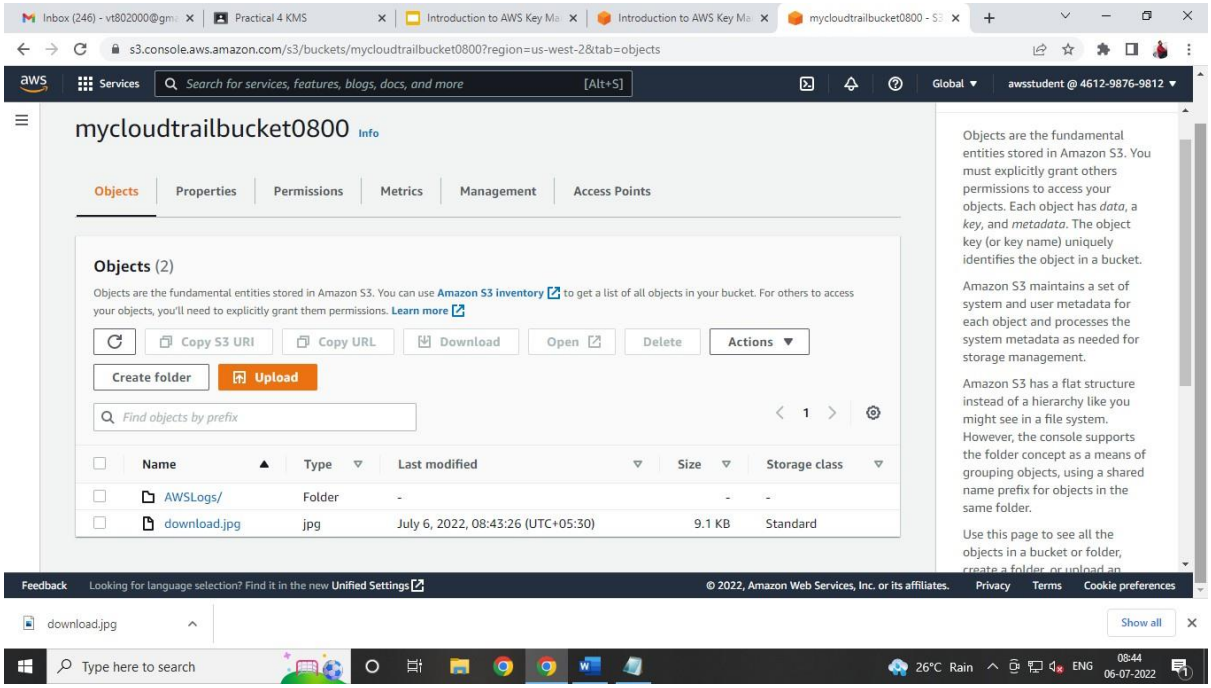
Show all


mycloudtrailbucket0800 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
AWSLogs/
Folder
download.jpg
jpg
July 6, 2022, 08:43:26 (UTC+05:30)
9.1 KB
Standard
Objects are the fundamental entities stored in Amazon S3. You must explicitly grant others permissions to access your objects. Each object has data, a key, and metadata. The object key (or key name) uniquely identifies the object in a bucket.
Amazon S3 maintains a set of system and user metadata for each object and processes the system metadata as needed for storage management.
Amazon S3 has a flat structure instead of a hierarchy like you might see in a file system. However, the console supports the folder concept as a means of grouping objects, using a shared name prefix for objects in the same folder.
Use this page to see all the objects in a bucket or folder,
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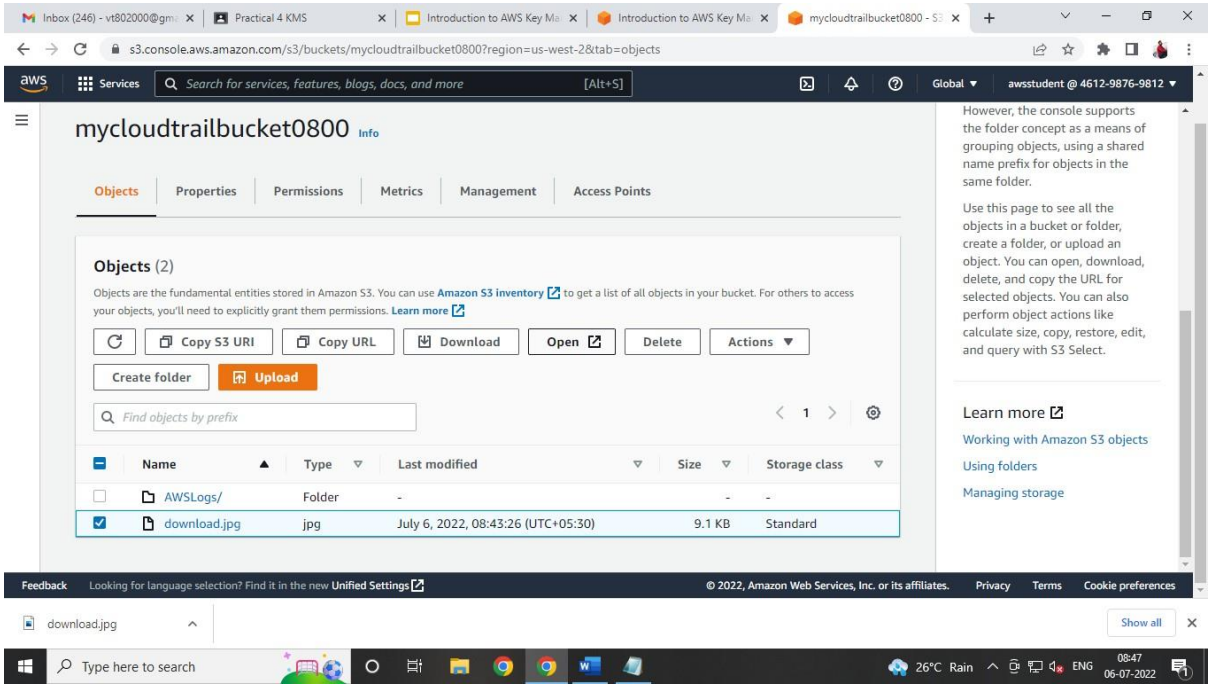
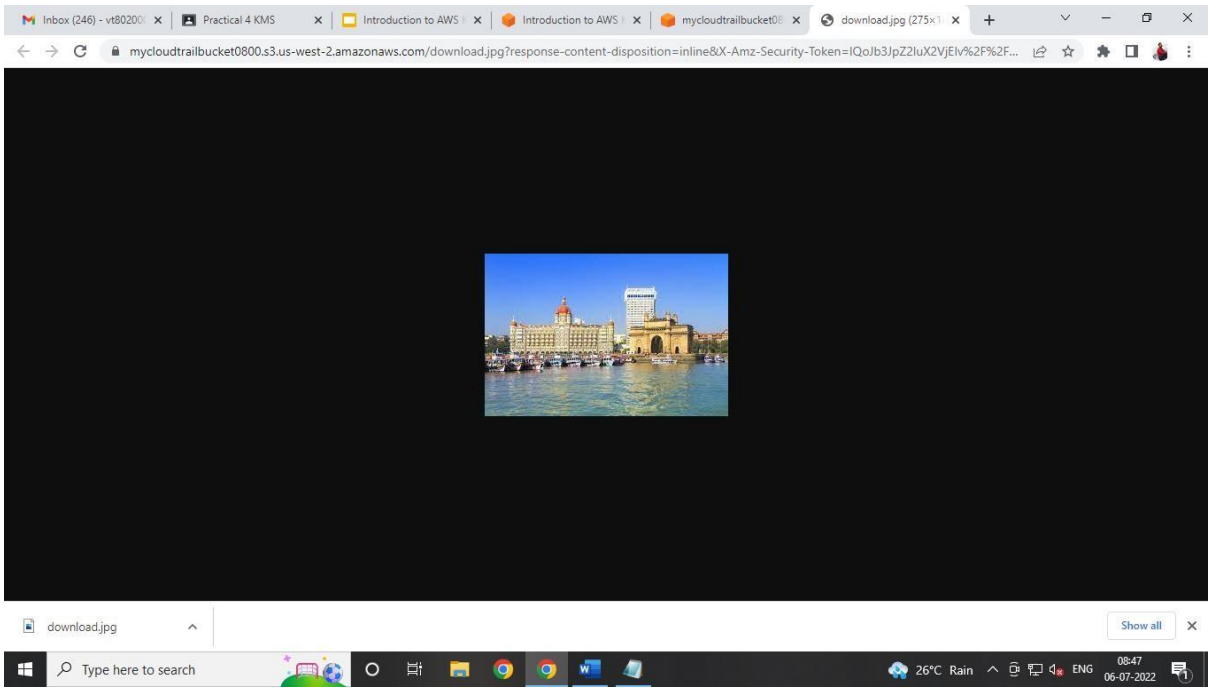
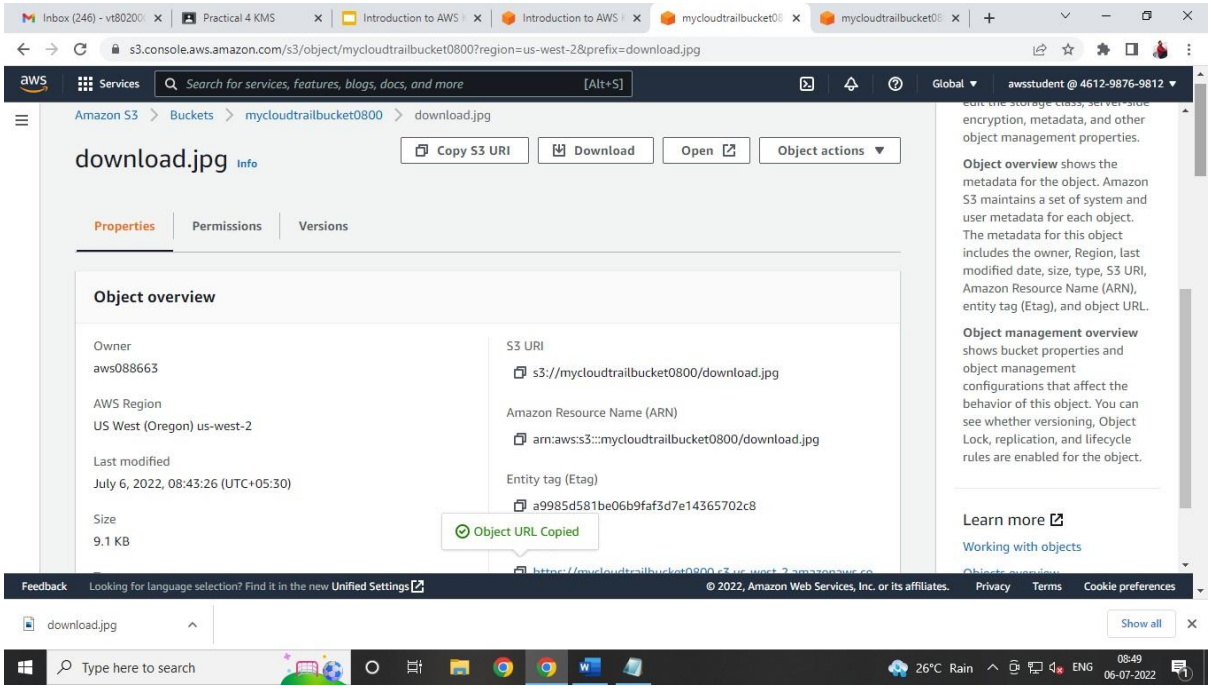
Task-4 access the encrypted image






s3.console.aws.amazon.com/s3/object/mycloudtrailbucket0800?region=us-west-2&prefix=download.jpg
Amazon S3 > Buckets > mycloudtrailbucket0800 > download.jpg
download.jpg Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
aws088663
AWS Region
US West (Oregon) us-west-2
Last modified
July 6, 2022, 08:43:26 (UTC+05:30)
Size
9.1 KB
S3 URI
s3://mycloudtrailbucket0800/download.jpg
Amazon Resource Name (ARN)
arn:aws:s3:::mycloudtrailbucket0800/download.jpg
Entity tag (Etag)
a9985d581be06b9faf3d7e14365702c8
Object URL Copied
Learn more
Working with objects
Feedback
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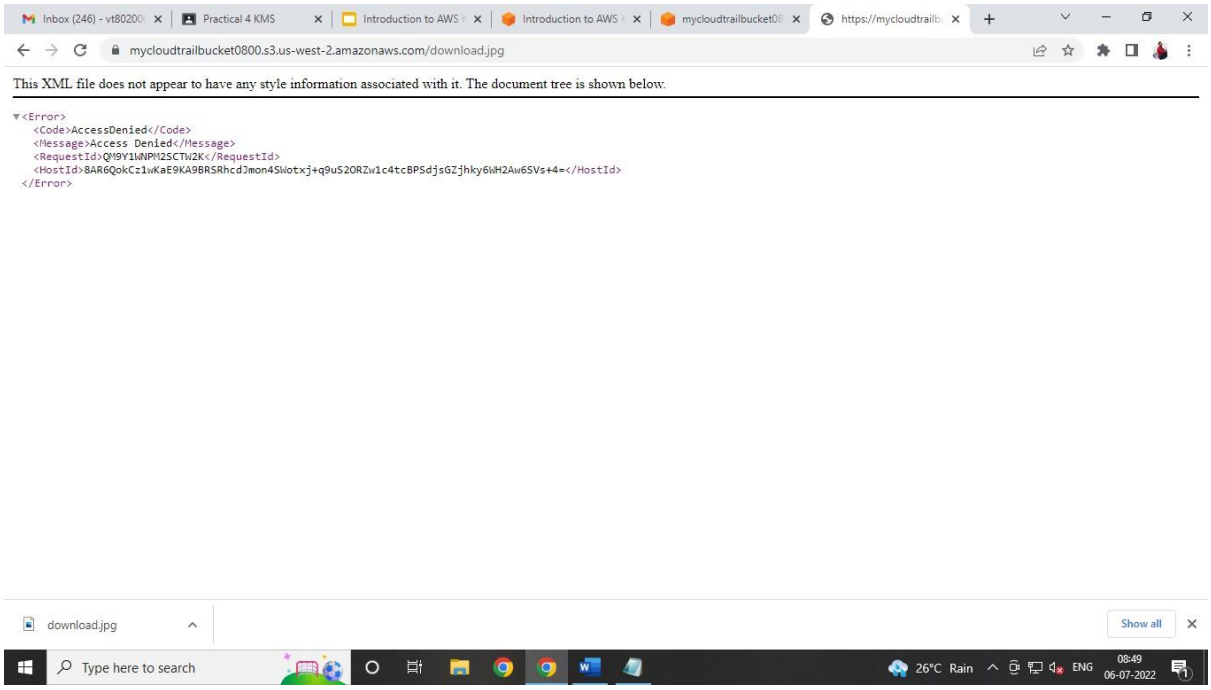
mycloudtrailbucket0800.s3.us-west-2.amazonaws.com/download.jpg
This XML file does not appear to have any style information associated with it. The document tree is shown below.
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<Code>AccessDenied</Code>
<Message>Access Denied</Message>
<RequestId>QM9Y1WNPM2SCTW2K</RequestId>
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</Error>
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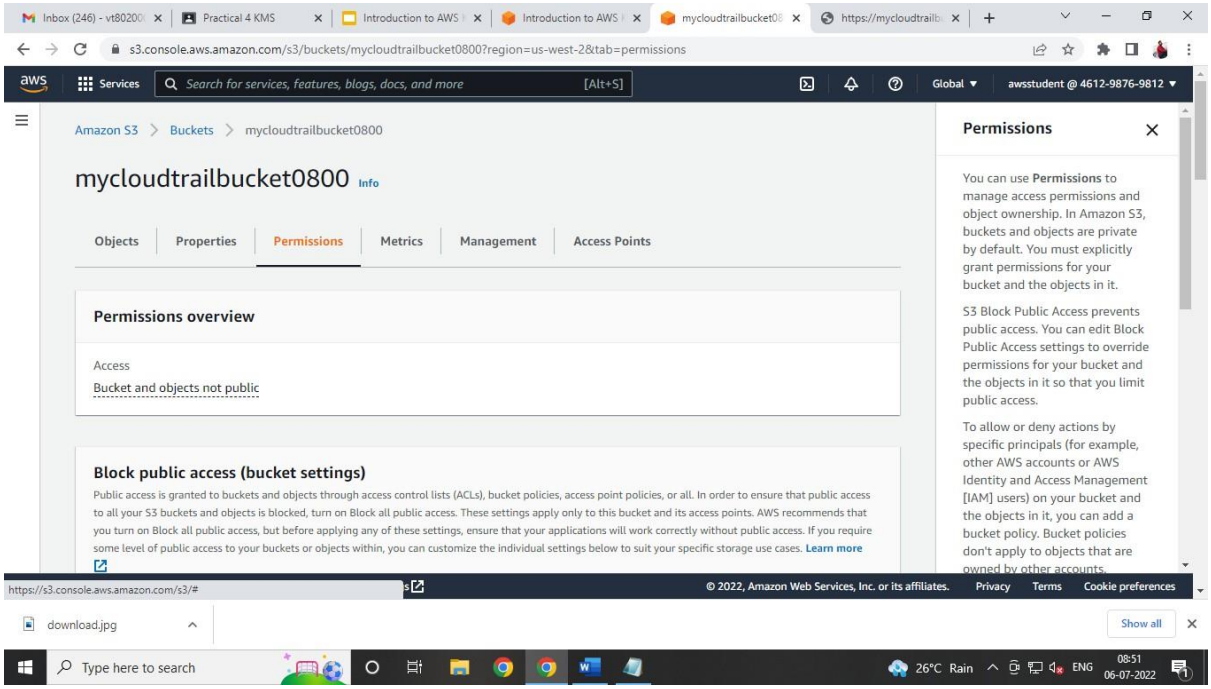
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&tab=permissions
Amazon S3 > Buckets > mycloudtrailbucket0800
mycloudtrailbucket0800 Info
Objects Properties Permissions Metrics Management Access Points
Permissions overview
Access
Bucket and objects not public
Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Permissions
You can use Permissions to manage access permissions and object ownership. In Amazon S3, buckets and objects are private by default. You must explicitly grant permissions for your bucket and the objects in it.
S3 Block Public Access prevents public access. You can edit Block Public Access settings to override permissions for your bucket and the objects in it so that you limit public access.
To allow or deny actions by specific principals (for example, other AWS accounts or AWS Identity and Access Management [IAM] users) on your bucket and the objects in it, you can add a bucket policy. Bucket policies don't apply to objects that are owned by other accounts.
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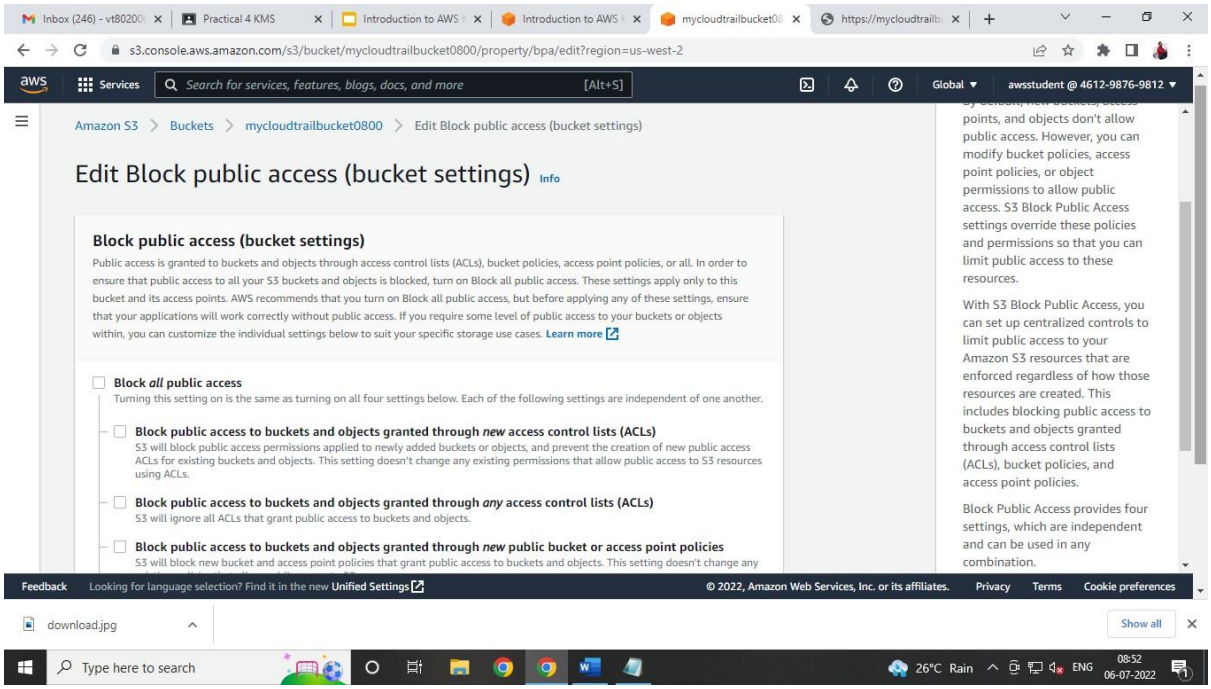
s3.console.aws.amazon.com/s3/bucket/mycloudtrailbucket0800/property/bpa/edit?region=us-west-2
Amazon S3 > Buckets > mycloudtrailbucket0800 > Edit Block public access (bucket settings)
Edit Block public access (bucket settings) Info
Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any
points, and objects don't allow public access. However, you can modify bucket policies, access point policies, or object permissions to allow public access. S3 Block Public Access settings override these policies and permissions so that you can limit public access to these resources.
With S3 Block Public Access, you can set up centralized controls to limit public access to your Amazon S3 resources that are enforced regardless of how those resources are created. This includes blocking public access to buckets and objects granted through access control lists (ACLs), bucket policies, and access point policies.
Block Public Access provides four settings, which are independent and can be used in any combination.
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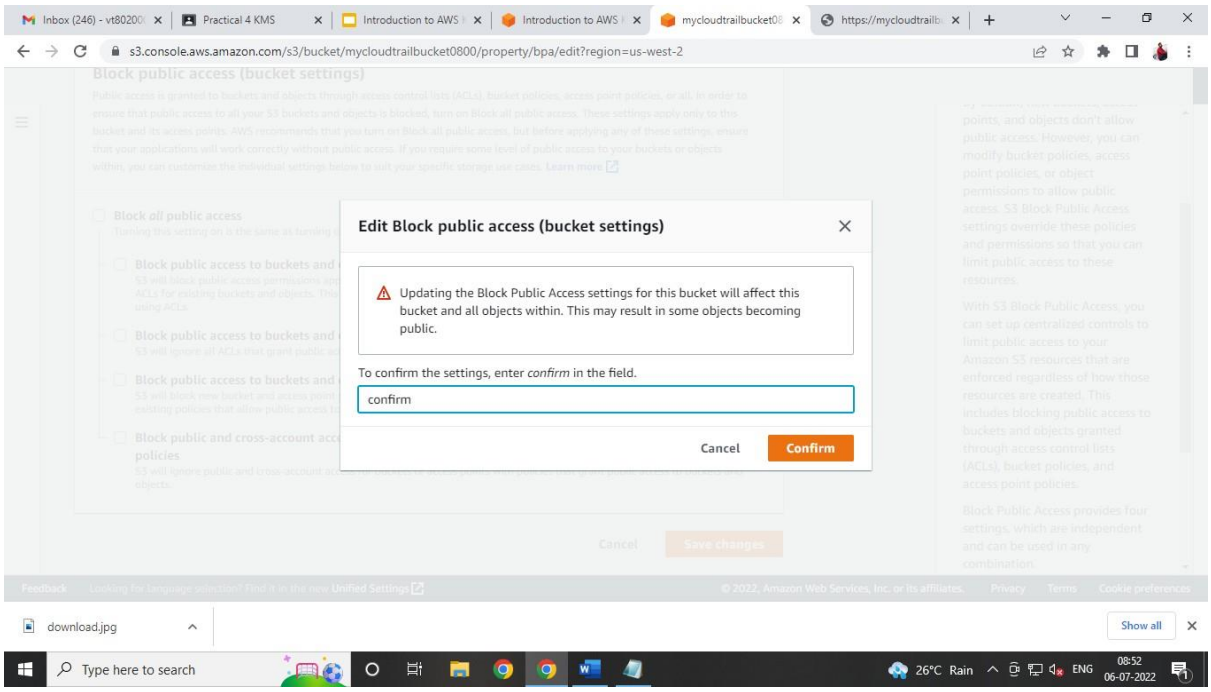
Edit Block public access (bucket settings)
Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public.
To confirm the settings, enter confirm in the field.
confirm
Cancel
Confirm
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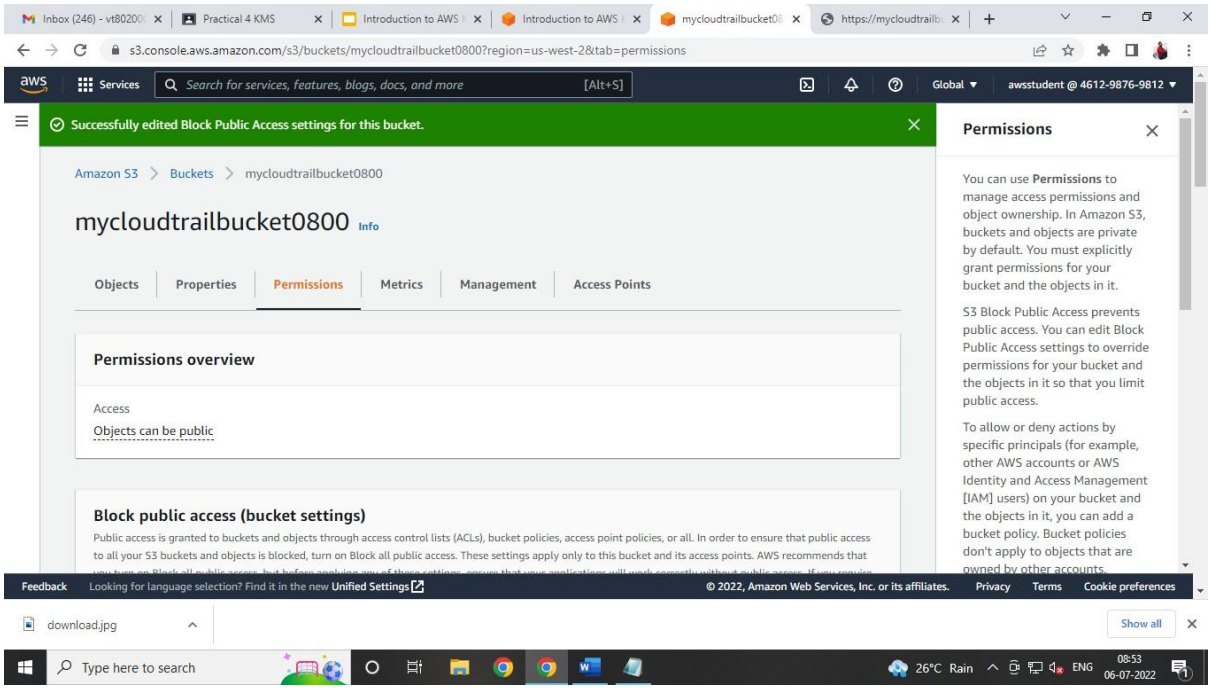
Successfully edited Block Public Access settings for this bucket.
Amazon S3 > Buckets > mycloudtrailbucket0800
mycloudtrailbucket0800 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Permissions overview
Access
Objects can be public
Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that
Permissions
You can use Permissions to manage access permissions and object ownership. In Amazon S3, buckets and objects are private by default. You must explicitly grant permissions for your bucket and the objects in it.
S3 Block Public Access prevents public access. You can edit Block Public Access settings to override permissions for your bucket and the objects in it so that you limit public access.
To allow or deny actions by specific principals (for example, other AWS accounts or AWS Identity and Access Management [IAM] users) on your bucket and the objects in it, you can add a bucket policy. Bucket policies don't apply to objects that are owned by other accounts.
Feedback
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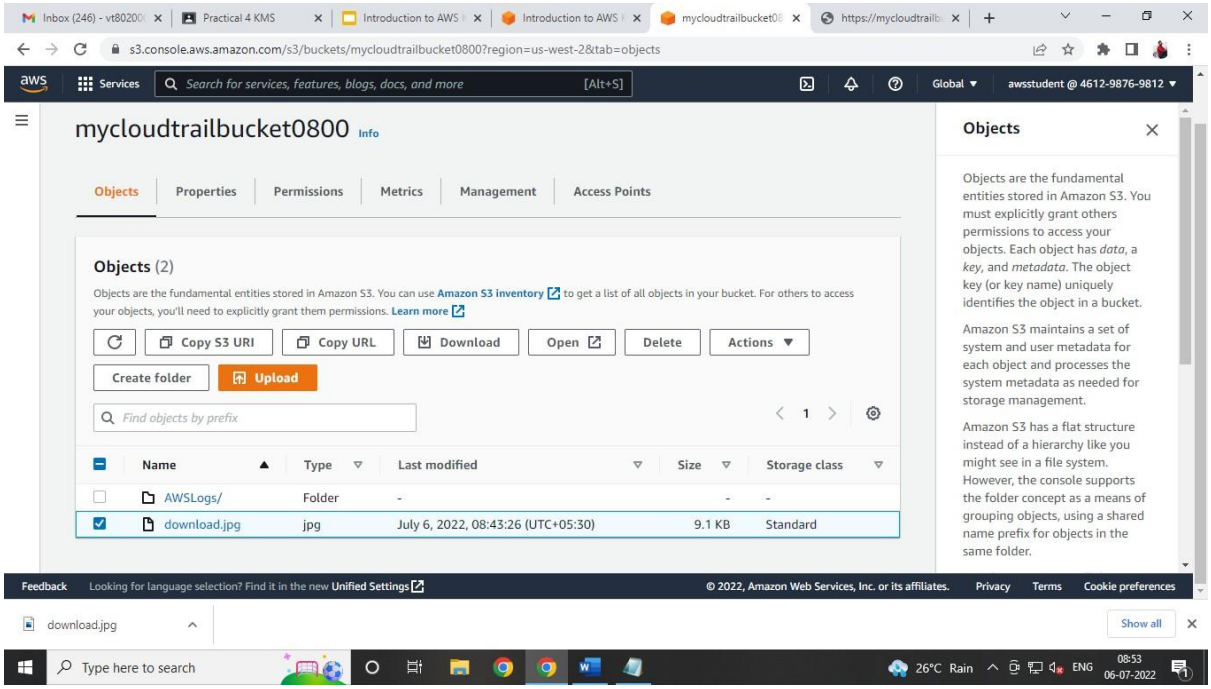
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&tab=objects
mycloudtrailbucket0800 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
AWSLogs/
Folder
download.jpg
jpg
July 6, 2022, 08:43:26 (UTC+05:30)
9.1 KB
Standard
Objects are the fundamental entities stored in Amazon S3. You must explicitly grant others permissions to access your objects. Each object has data, a key, and metadata. The object key (or key name) uniquely identifies the object in a bucket.
Amazon S3 maintains a set of system and user metadata for each object and processes the system metadata as needed for storage management.
Amazon S3 has a flat structure instead of a hierarchy like you might see in a file system. However, the console supports the folder concept as a means of grouping objects, using a shared name prefix for objects in the same folder.
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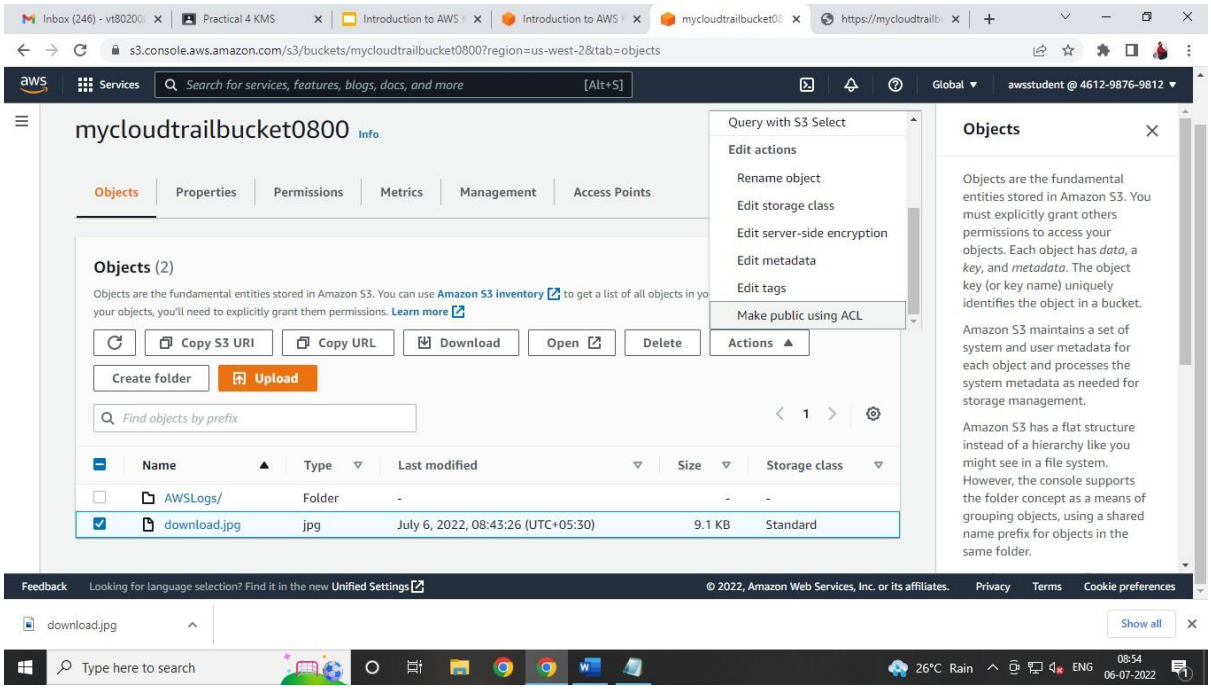
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&tab=objects
mycloudtrailbucket0800 Info
Query with S3 Select
Edit actions
Rename object
Edit storage class
Edit server-side encryption
Edit metadata
Edit tags
Make public using ACL
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
AWSLogs/
Folder
download.jpg
jpg
July 6, 2022, 08:43:26 (UTC+05:30)
9.1 KB
Standard
Objects are the fundamental entities stored in Amazon S3. You must explicitly grant others permissions to access your objects. Each object has data, a key, and metadata. The object key (or key name) uniquely identifies the object in a bucket.
Amazon S3 maintains a set of system and user metadata for each object and processes the system metadata as needed for storage management.
Amazon S3 has a flat structure instead of a hierarchy like you might see in a file system. However, the console supports the folder concept as a means of grouping objects, using a shared name prefix for objects in the same folder.
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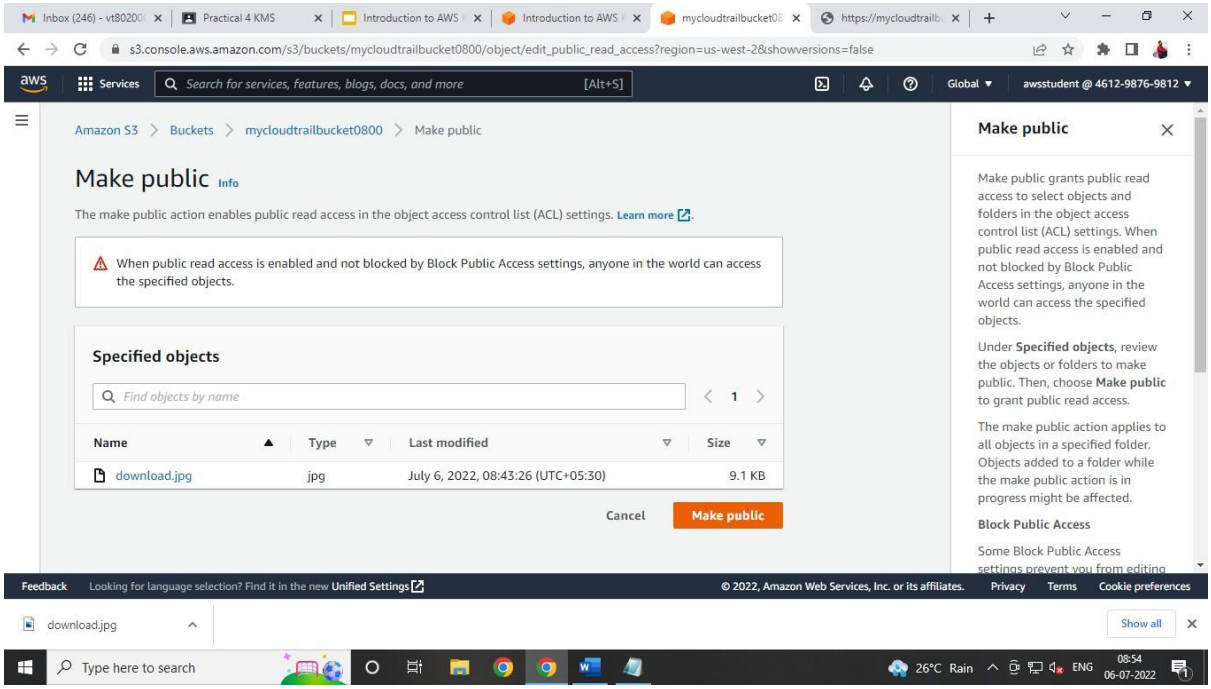
Amazon S3 > Buckets > mycloudtrailbucket0800 > Make public
Make public Info
The make public action enables public read access in the object access control list (ACL) settings. Learn more
When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.
Specified objects
Find objects by name
Name
Type
Last modified
Size
download.jpg
jpg
July 6, 2022, 08:43:26 (UTC+05:30)
9.1 KB
Cancel
Make public
Make public
Make public grants public read access to select objects and folders in the object access control list (ACL) settings. When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.
Under Specified objects, review the objects or folders to make public. Then, choose Make public to grant public read access.
The make public action applies to all objects in a specified folder. Objects added to a folder while the make public action is in progress might be affected.
Block Public Access
Some Block Public Access settings prevent you from editing
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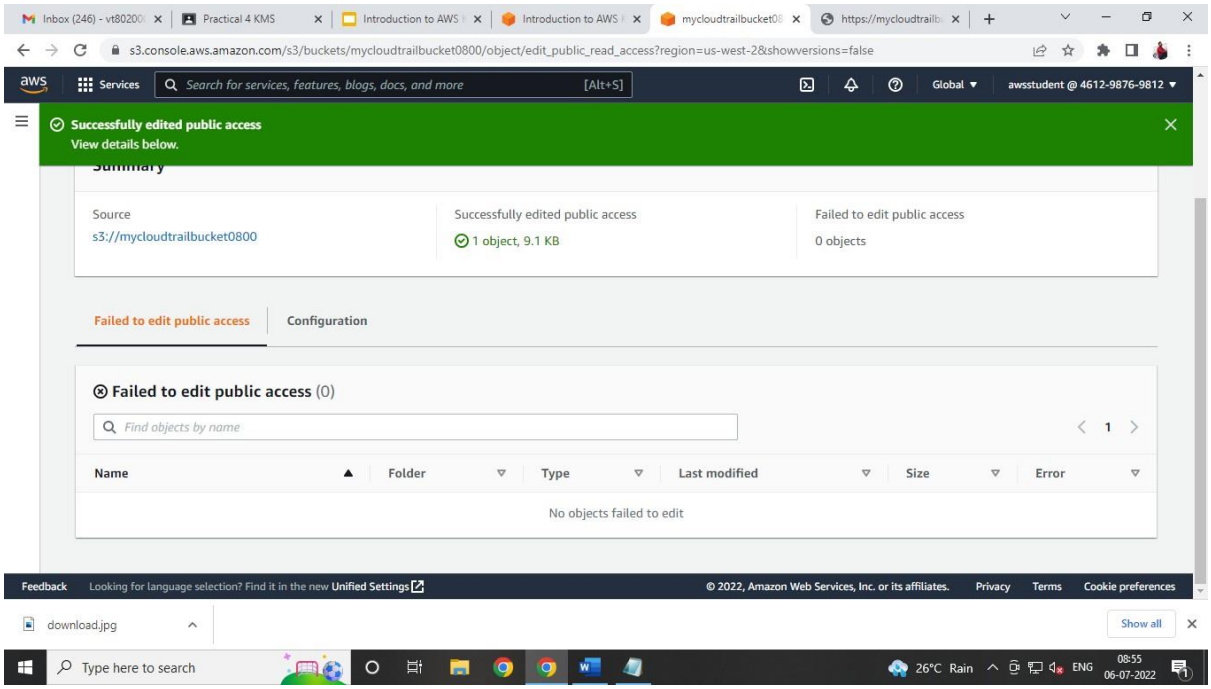
ENG
08:54
06-07-2022


Successfully edited public access
View details below.
Summary
Source
s3://mycloudtrailbucket0800
Successfully edited public access
1 object, 9.1 KB
Failed to edit public access
0 objects
Failed to edit public access
Configuration
Failed to edit public access (0)
Find objects by name
Name
Folder
Type
Last modified
Size
Error
No objects failed to edit
Feedback
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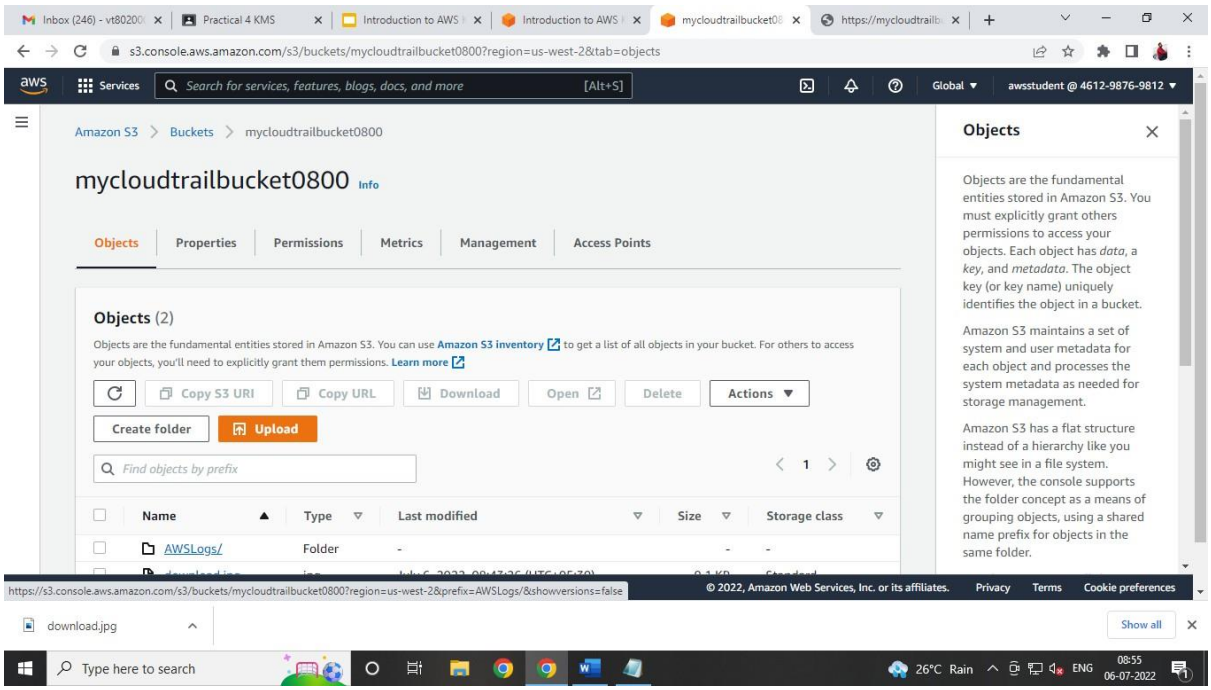
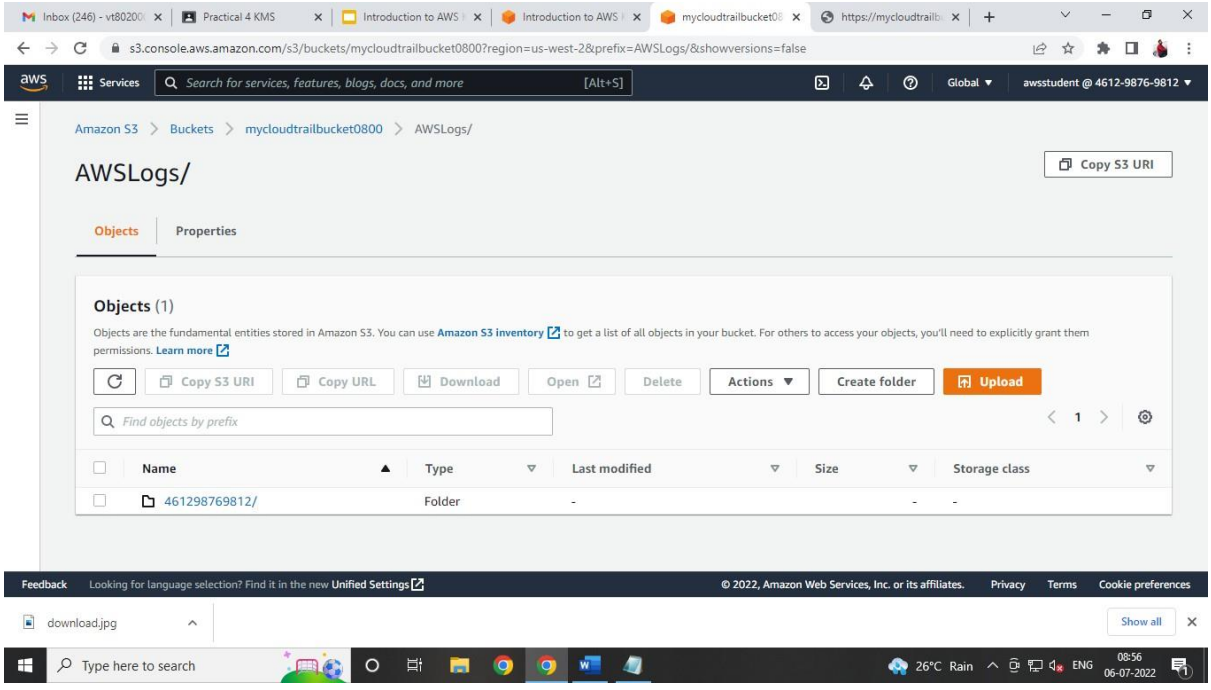
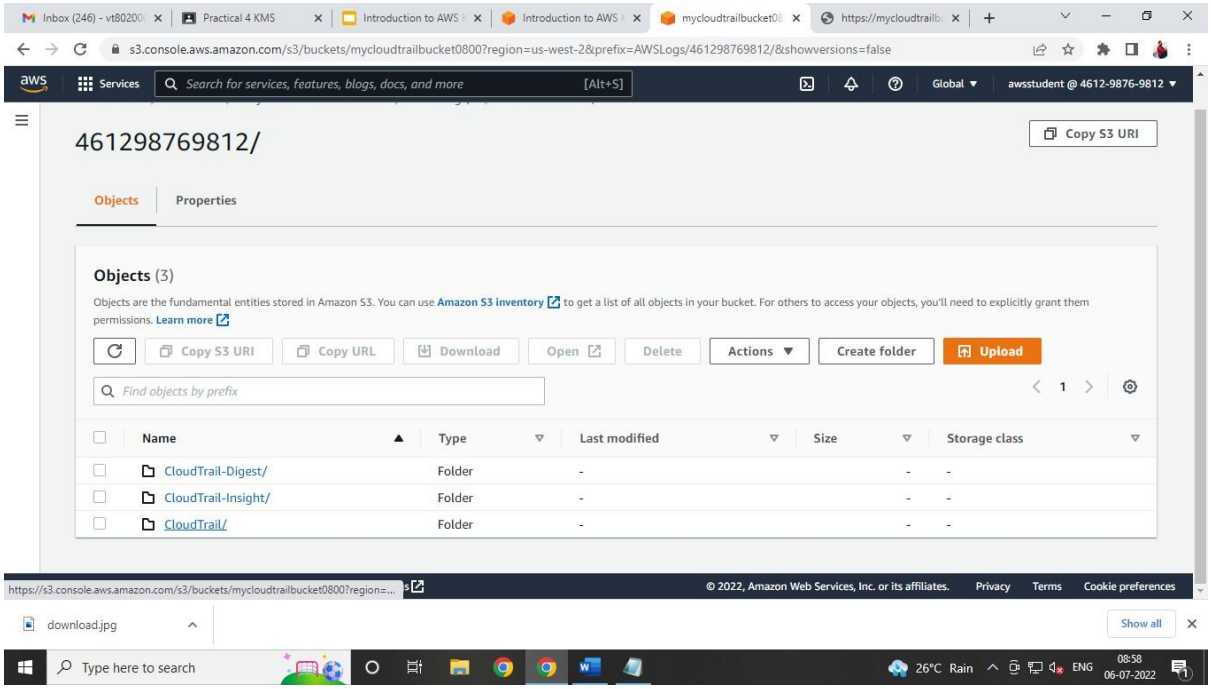
Task 5: Monitor KMS Activity Using CloudTrail Logs In this task, you will access your Cloud Trail log files and view logs related your encryption operations.






s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/&showversions=false
461298769812/
Copy S3 URI
Objects
Properties
Objects (3)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
CloudTrail-Digest/ Folder
CloudTrail-Insight/ Folder
CloudTrail/ Folder
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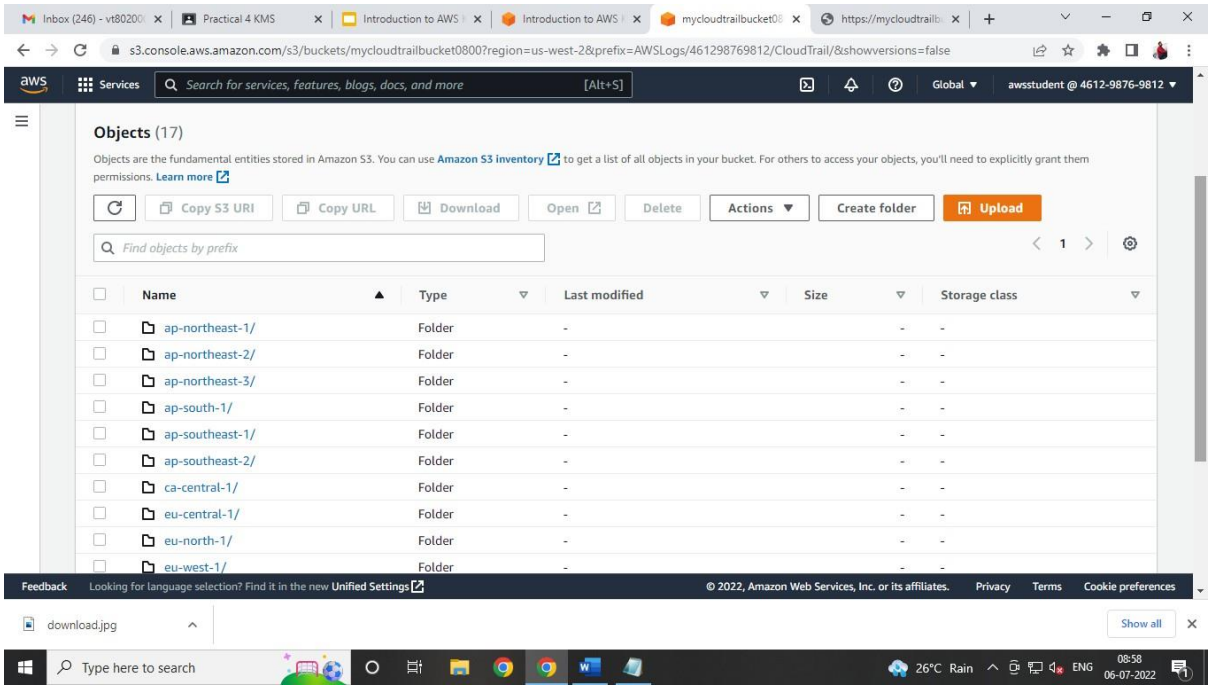
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/CloudTrail/&showversions=false
Objects (17)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
ap-northeast-1/ Folder
ap-northeast-2/ Folder
ap-northeast-3/ Folder
ap-south-1/ Folder
ap-southeast-1/ Folder
ap-southeast-2/ Folder
ca-central-1/ Folder
eu-central-1/ Folder
eu-north-1/ Folder
eu-west-1/ Folder
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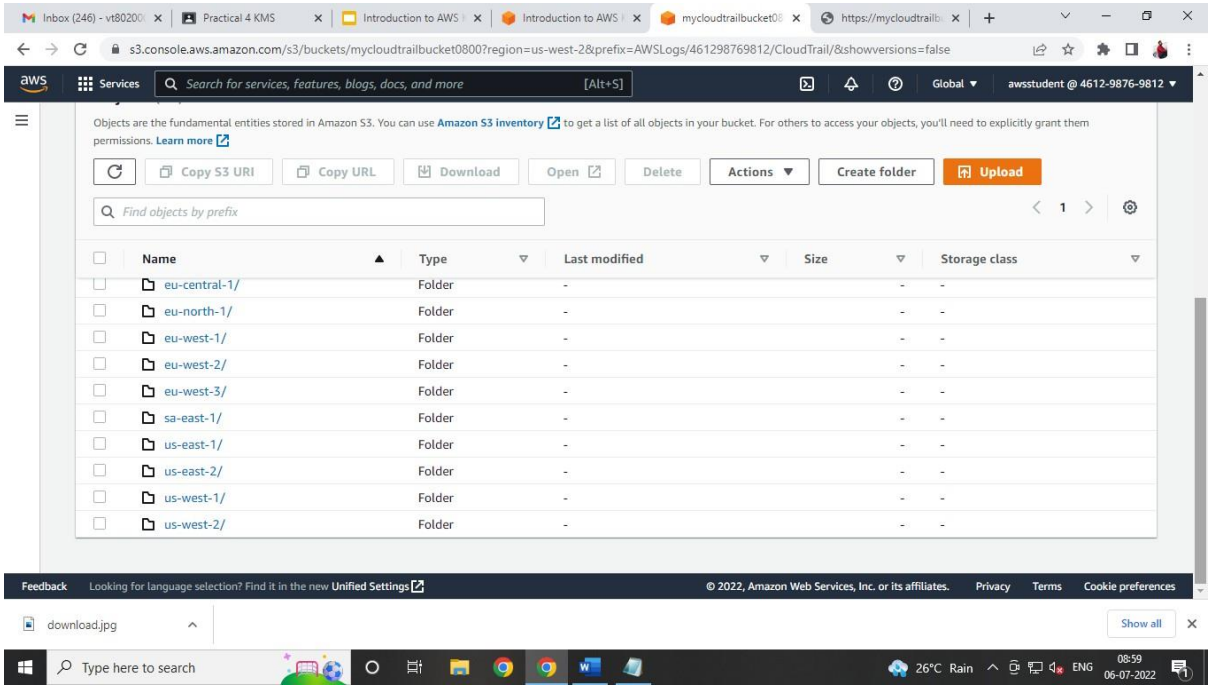
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/CloudTrail/&showversions=false
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
eu-central-1/
eu-north-1/
eu-west-1/
eu-west-2/
eu-west-3/
sa-east-1/
us-east-1/
us-east-2/
us-west-1/
us-west-2/
Folder
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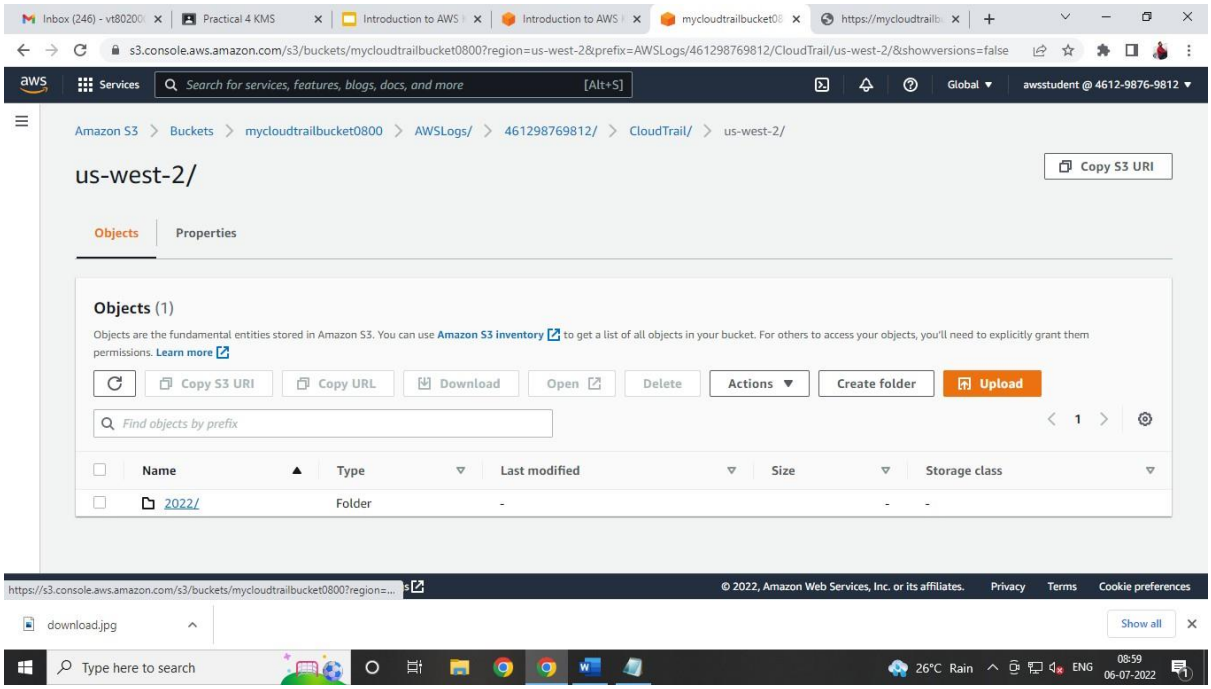
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/CloudTrail/us-west-2/&showversions=false
Amazon S3
Buckets
mycloudtrailbucket0800
AWSLogs/
461298769812/
CloudTrail/
us-west-2/
us-west-2/
Copy S3 URI
Objects
Properties
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
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Actions
Create folder
Upload
Find objects by prefix
Name
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Last modified
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Storage class
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Folder
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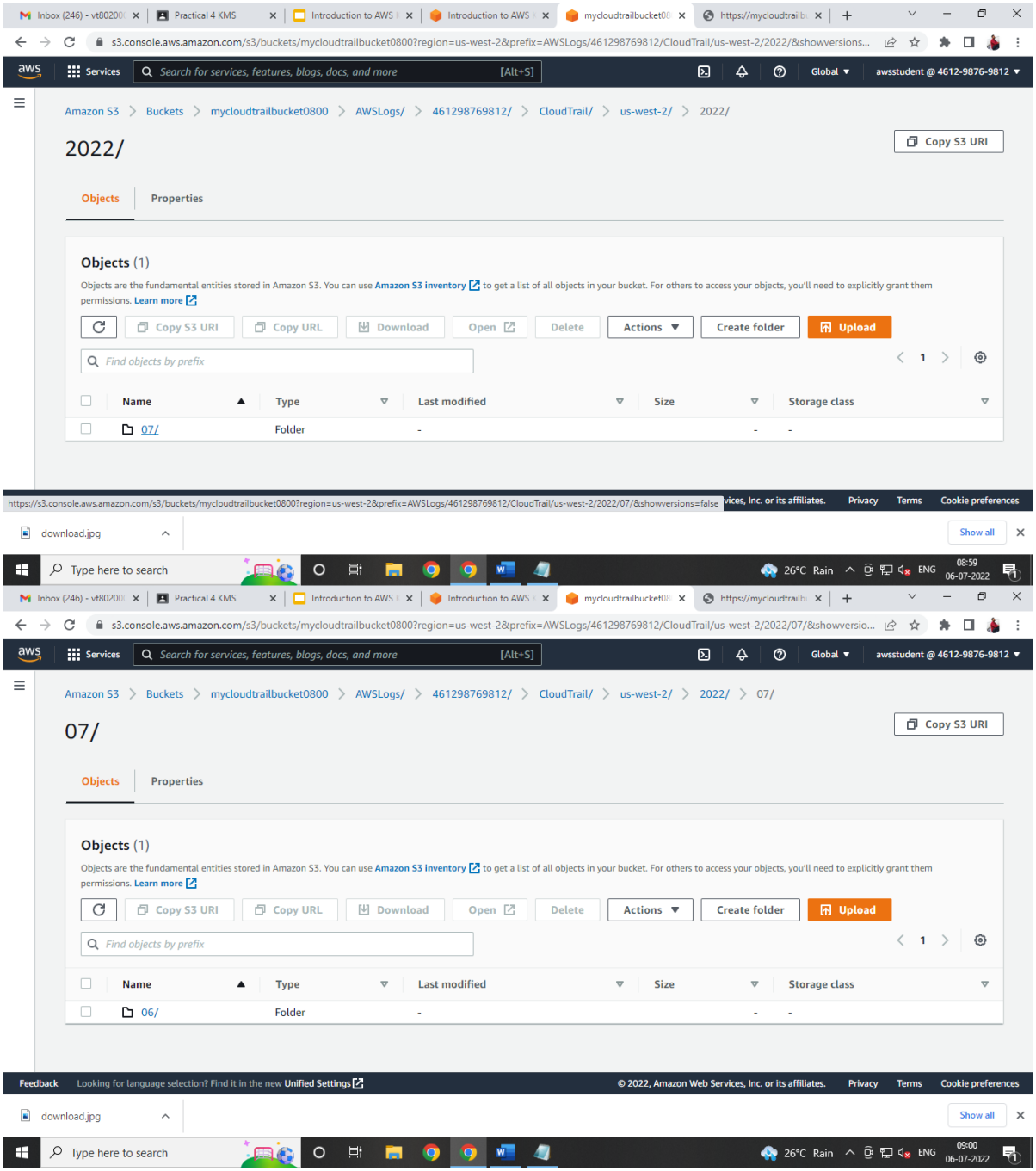
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Practical 4 KMS
Introduction to AWS
Introduction to AWS
mycloudtrailbucket08
https://mycloudtrailb
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/CloudTrail/us-west-2/2022/&showversions...
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Amazon S3 > Buckets > mycloudtrailbucket0800 > AWSLogs/ > 461298769812/ > CloudTrail/ > us-west-2/ > 2022/
2022/
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Objects
Properties
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
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https://s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/CloudTrail/us-west-2/2022/07/&showversions=false
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https://mycloudtrailb
s3.console.aws.amazon.com/s3/buckets/mycloudtrailbucket0800?region=us-west-2&prefix=AWSLogs/461298769812/CloudTrail/us-west-2/2022/07/&showversio...
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Amazon S3 > Buckets > mycloudtrailbucket0800 > AWSLogs/ > 461298769812/ > CloudTrail/ > us-west-2/ > 2022/ > 07/
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Objects
Properties
Objects (1)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
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Delete
Actions
Create folder
Upload
Find objects by prefix
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Size
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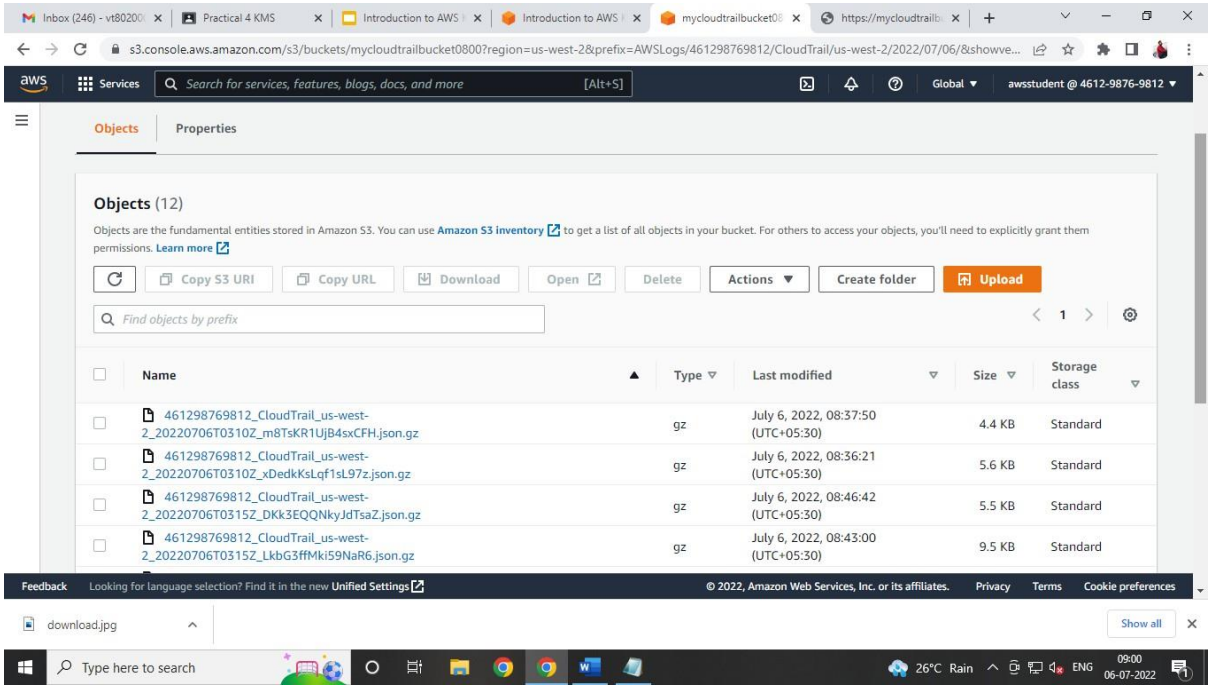
Objects
Properties
Objects (12)
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
461298769812_CloudTrail_us-west-2_20220706T0310Z_m8TsKR1UjB4sxCFH.json.gz
gz
July 6, 2022, 08:37:50 (UTC+05:30)
4.4 KB
Standard
461298769812_CloudTrail_us-west-2_20220706T0310Z_xDedkKsLqf1sL97z.json.gz
gz
July 6, 2022, 08:36:21 (UTC+05:30)
5.6 KB
Standard
461298769812_CloudTrail_us-west-2_20220706T0315Z_DKk3EQQNkyJdTsaZ.json.gz
gz
July 6, 2022, 08:46:42 (UTC+05:30)
5.5 KB
Standard
461298769812_CloudTrail_us-west-2_20220706T0315Z_LkbG3ffMki59NaR6.json.gz
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July 6, 2022, 08:43:00 (UTC+05:30)
9.5 KB
Standard
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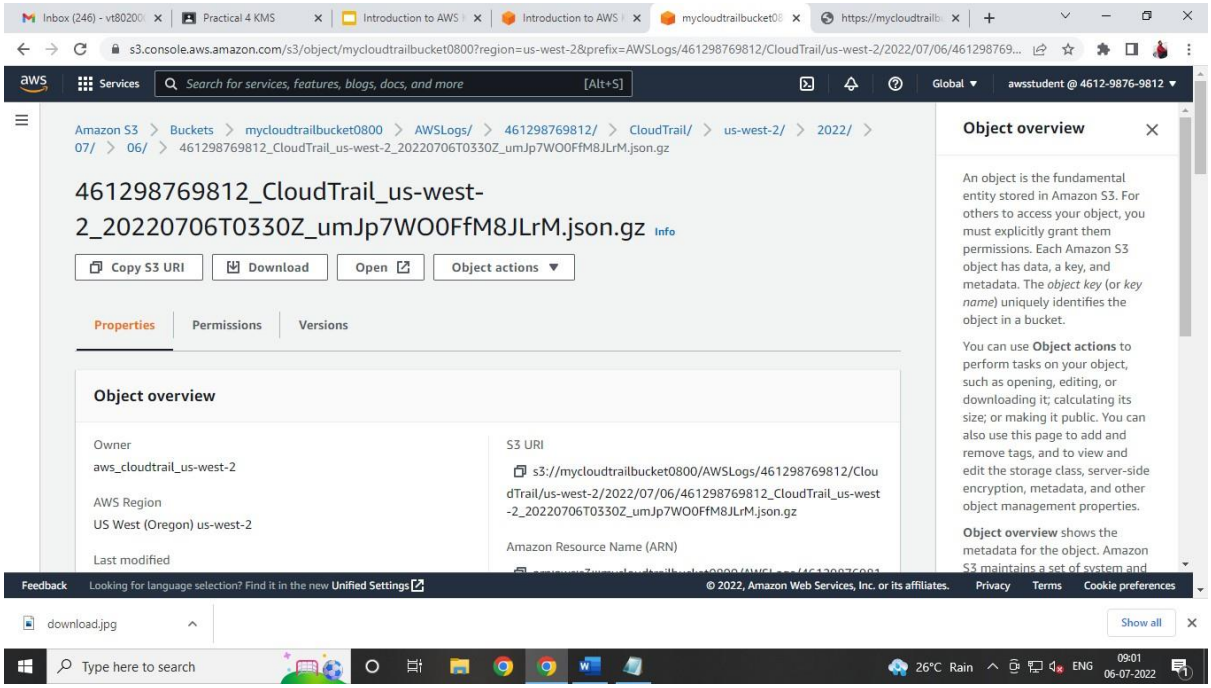
Amazon S3 > Buckets > mycloudtrailbucket0800 > AWSLogs/ > 461298769812/ > CloudTrail/ > us-west-2/ > 2022/ > 07/ > 06/ > 461298769812_CloudTrail_us-west-2_20220706T0330Z_umJp7WO0FfM8JLrM.json.gz
461298769812_CloudTrail_us-west-2_20220706T0330Z_umJp7WO0FfM8JLrM.json.gz Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
aws_cloudtrail_us-west-2
AWS Region
US West (Oregon) us-west-2
Last modified
S3 URI
s3://mycloudtrailbucket0800/AWSLogs/461298769812/CloudTrail/us-west-2/2022/07/06/461298769812_CloudTrail_us-west-2_20220706T0330Z_umJp7WO0FfM8JLrM.json.gz
Amazon Resource Name (ARN)
Object overview
An object is the fundamental entity stored in Amazon S3. For others to access your object, you must explicitly grant them permissions. Each Amazon S3 object has data, a key, and metadata. The object key (or key name) uniquely identifies the object in a bucket.
You can use Object actions to perform tasks on your object, such as opening, editing, or downloading it; calculating its size; or making it public. You can also use this page to add and remove tags, and to view and edit the storage class, server-side encryption, metadata, and other object management properties.
Object overview shows the metadata for the object. Amazon S3 maintains a set of system and
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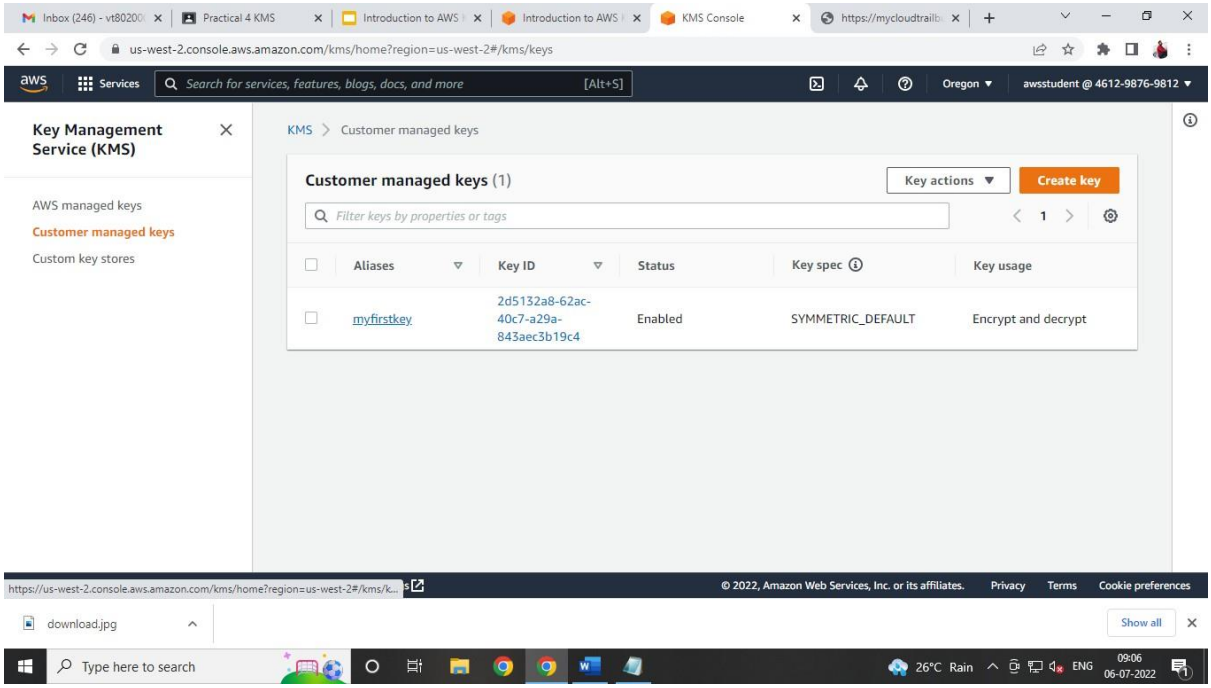
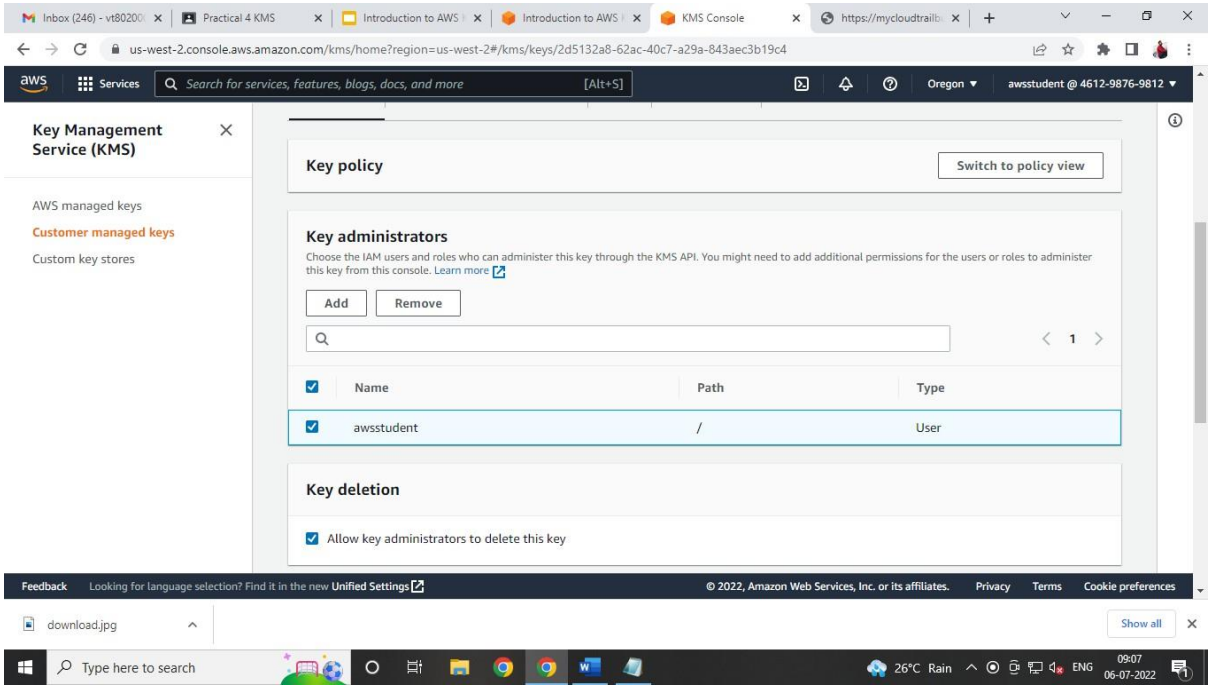
Task—6 management encryption key

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Practical 4 KMS
Introduction to AWS
Introduction to AWS
KMS Console
https://mycloudtrailb
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/2d5132a8-62ac-40c7-a29a-843aec3b19c4
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Services
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Key Management Service (KMS)
AWS managed keys
Customer managed keys
Custom key stores
Key policy
Switch to policy view
Key administrators
Choose the IAM users and roles who can administer this key through the KMS API. You might need to add additional permissions for the users or roles to administer this key from this console. Learn more
Add
Remove
1
Name
Path
Type
awsstudent
/
User
Key deletion
Allow key administrators to delete this key
Feedback
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ENG
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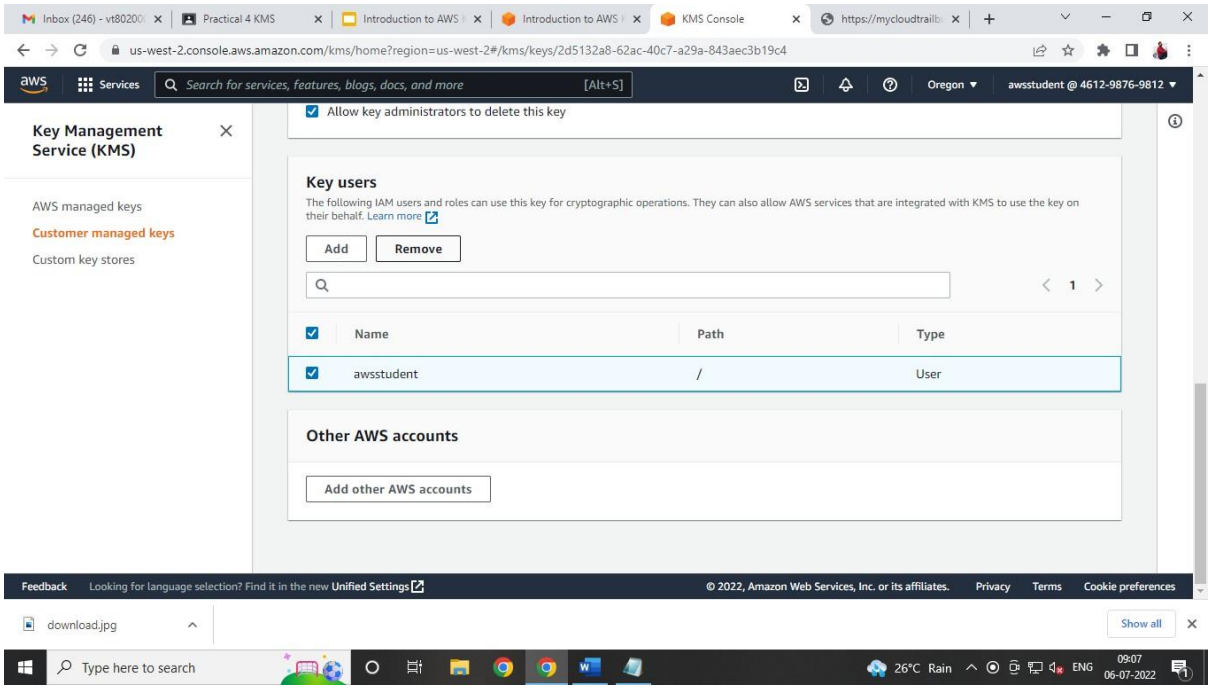
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Introduction to AWS
KMS Console
https://mycloudtrailb
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/2d5132a8-62ac-40c7-a29a-843aec3b19c4
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Services
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Allow key administrators to delete this key
Key Management Service (KMS)
AWS managed keys
Customer managed keys
Custom key stores
Key users
The following IAM users and roles can use this key for cryptographic operations. They can also allow AWS services that are integrated with KMS to use the key on their behalf. Learn more
Add
Remove
1
Name
Path
Type
awsstudent
/
User
Other AWS accounts
Add other AWS accounts
Feedback
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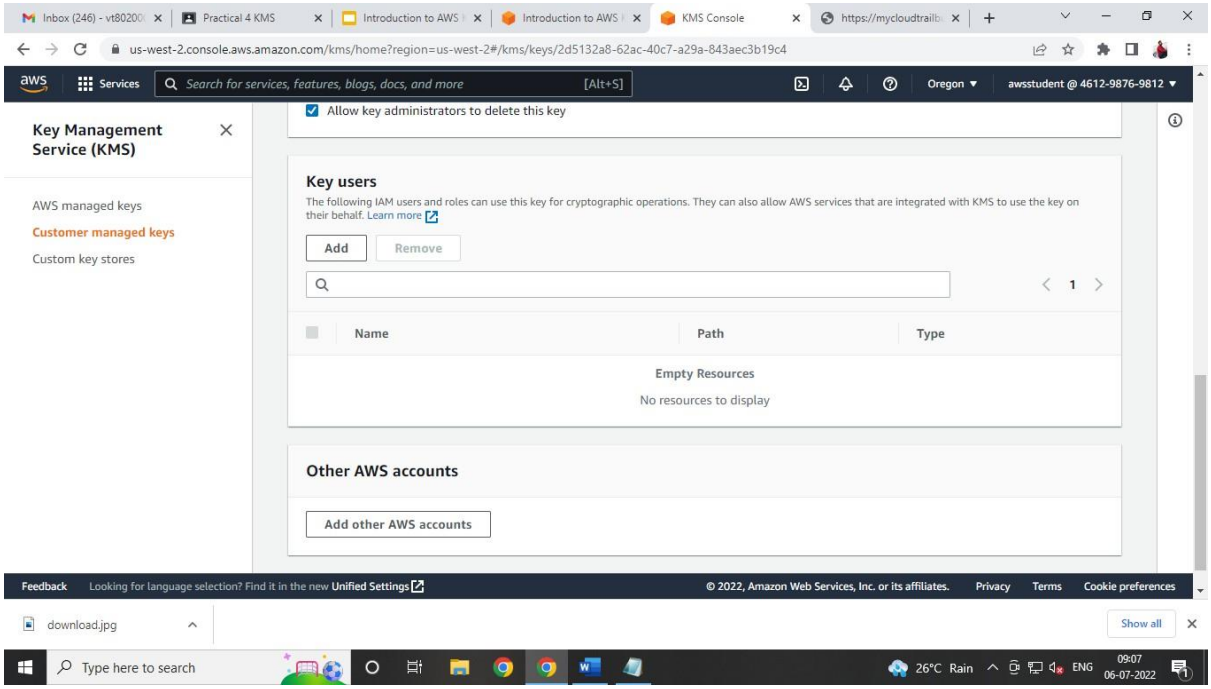
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Introduction to AWS
Introduction to AWS
KMS Console
https://mycloudtrailb
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/2d5132a8-62ac-40c7-a29a-843aec3b19c4
aws
Services
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Key Management Service (KMS)
AWS managed keys
Customer managed keys
Custom key stores
Allow key administrators to delete this key
Key users
The following IAM users and roles can use this key for cryptographic operations. They can also allow AWS services that are integrated with KMS to use the key on their behalf. Learn more
Add
Remove
Name
Path
Type
Empty Resources
No resources to display
Other AWS accounts
Add other AWS accounts
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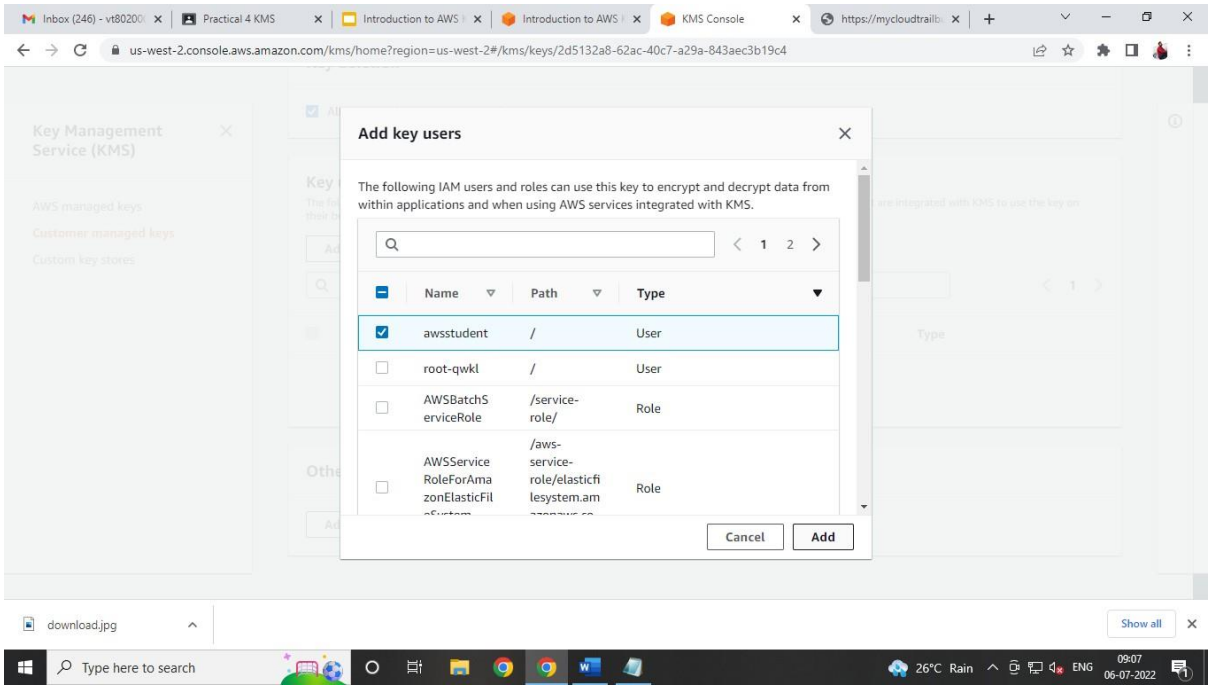
Inbox (246) - vt80200
Practical 4 KMS
Introduction to AWS
Introduction to AWS
KMS Console
https://mycloudtrailb
us-west-2.console.aws.amazon.com/kms/home?region=us-west-2#/kms/keys/2d5132a8-62ac-40c7-a29a-843aec3b19c4
Add key users
The following IAM users and roles can use this key to encrypt and decrypt data from within applications and when using AWS services integrated with KMS.
Name
Path
Type
awsstudent
/
User
root-qwkl
/
User
AWSBatchServiceRole
/service-role/
Role
AWSServiceRoleForAmazonElasticFilesystem
/aws-service-role/elasticfilesystem.amazonaws.com/
Role
Cancel
Add
download.jpg
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ENG
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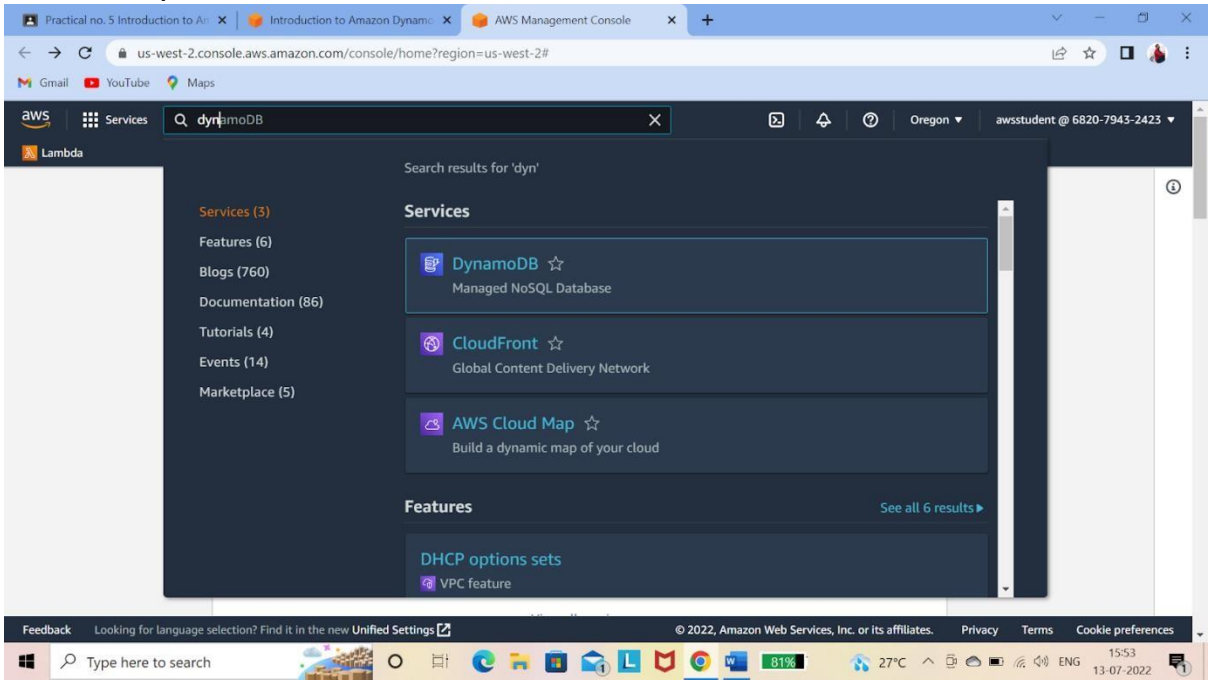
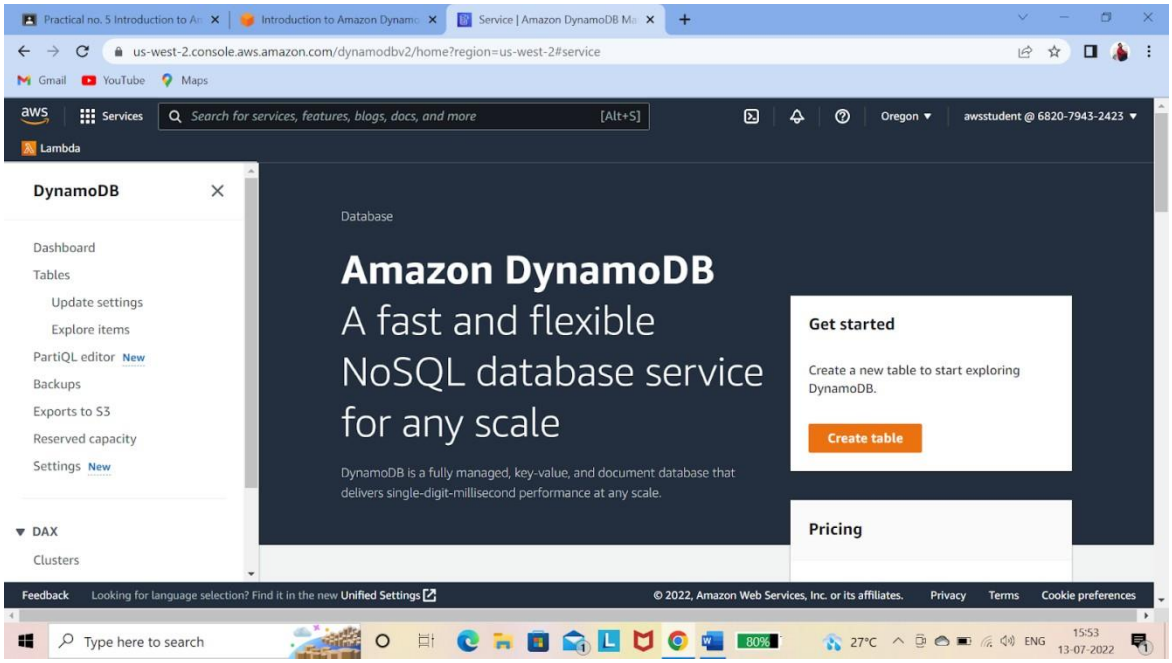
Practical No. 5

Introduction to Amazon DynamoDB

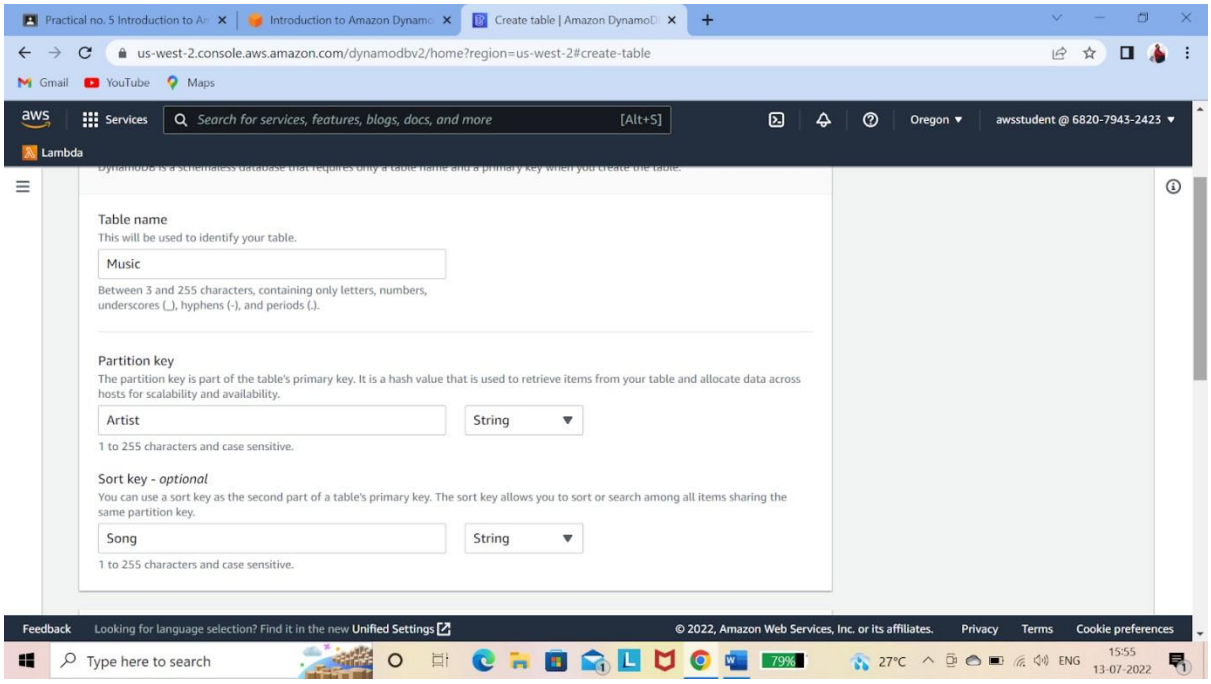
To open the lab
--choose Open
--search Dynamo DB



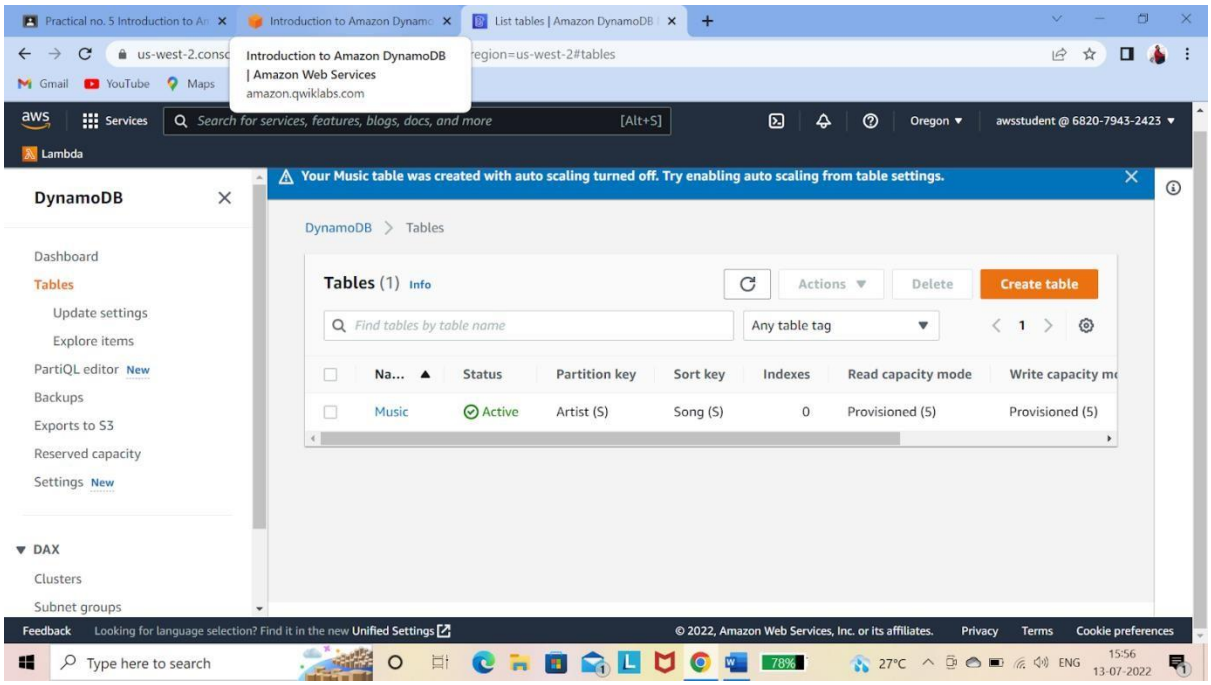
Task –1 Create a new table



2… For Table name type—Music
For Partition key type—Artist
ForSort key type –Song

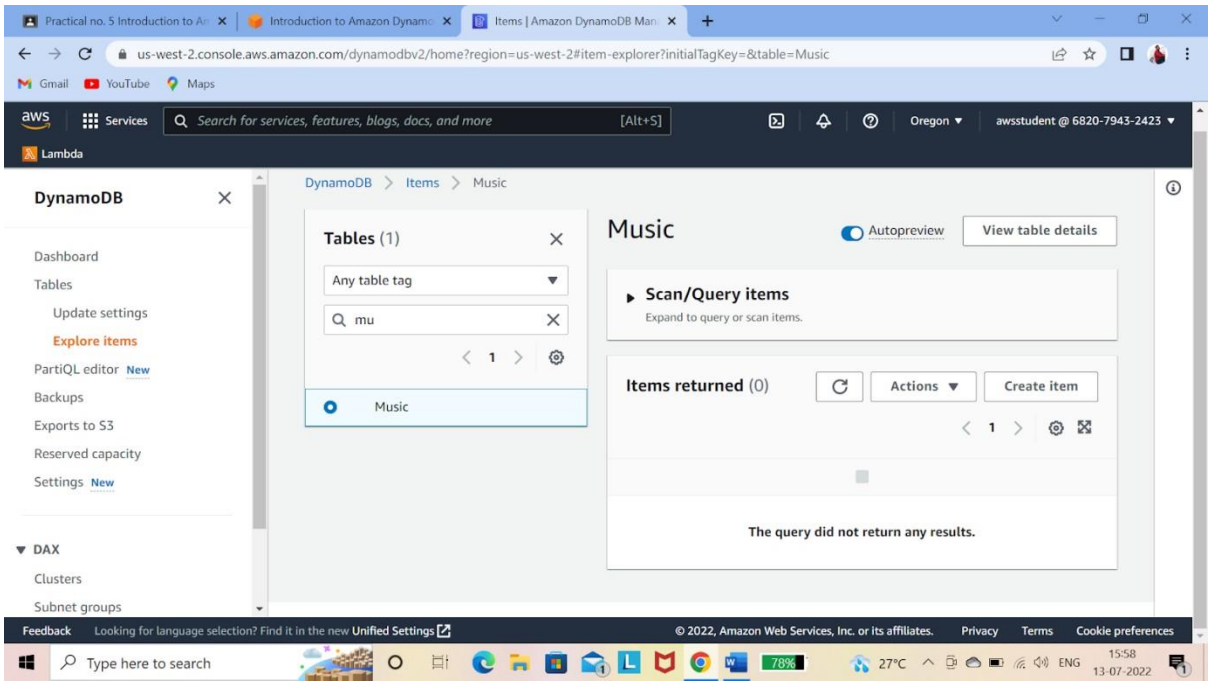


3—choose create table

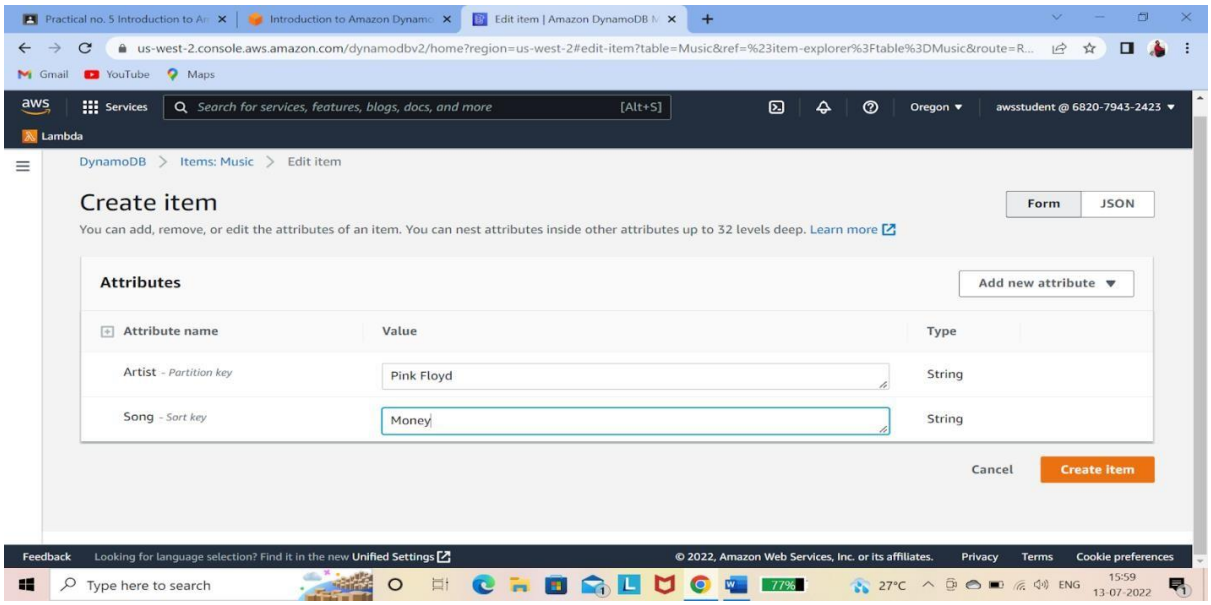


TASK—2 Add Data

1—in the navigation left side pane, choose explore items.
--select music
--choose Create item



2—for artist string, type: Pink Floyd
---for song string, type: Money



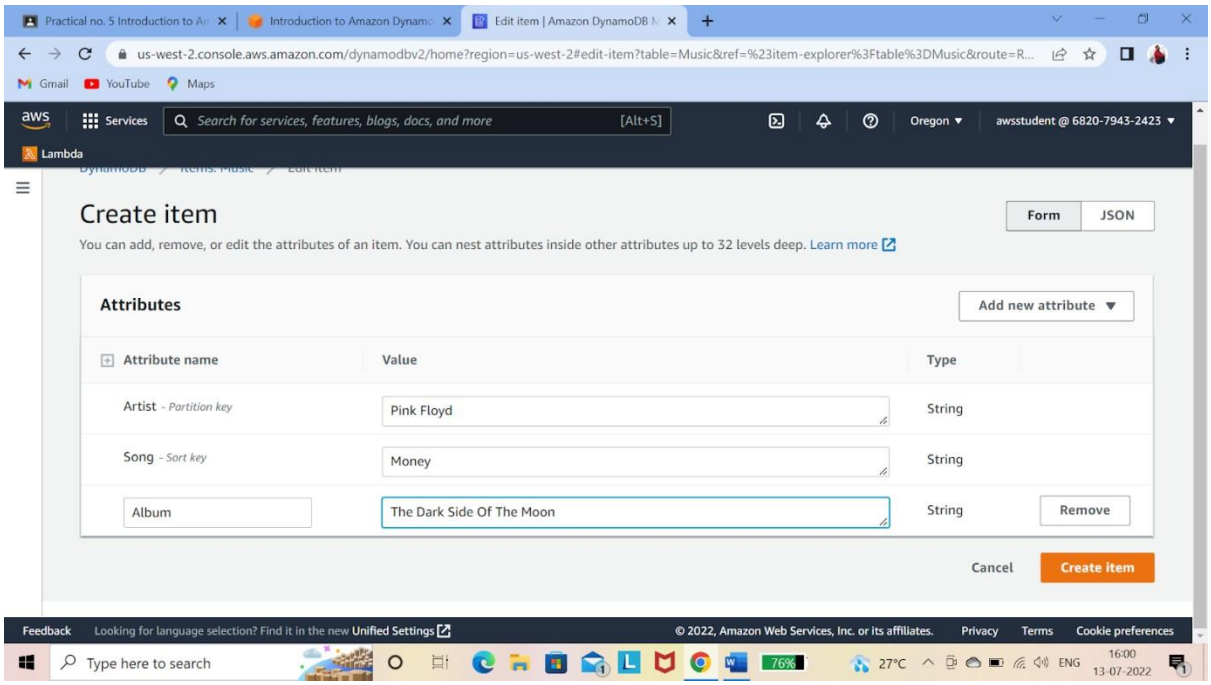
3— choose add new attribute

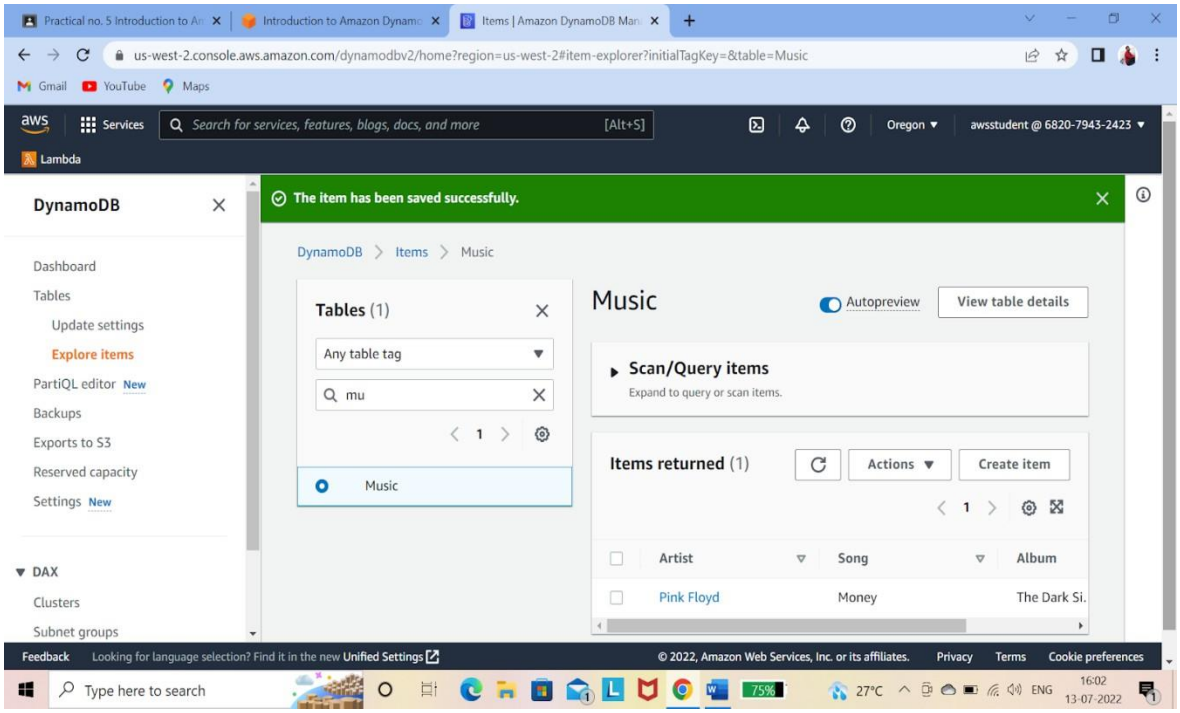
---in the dropdown list, select string and added new row

---for new attribute, enter

--In Field Type: Album

--**In value type:** The Dark Side Of The Moon





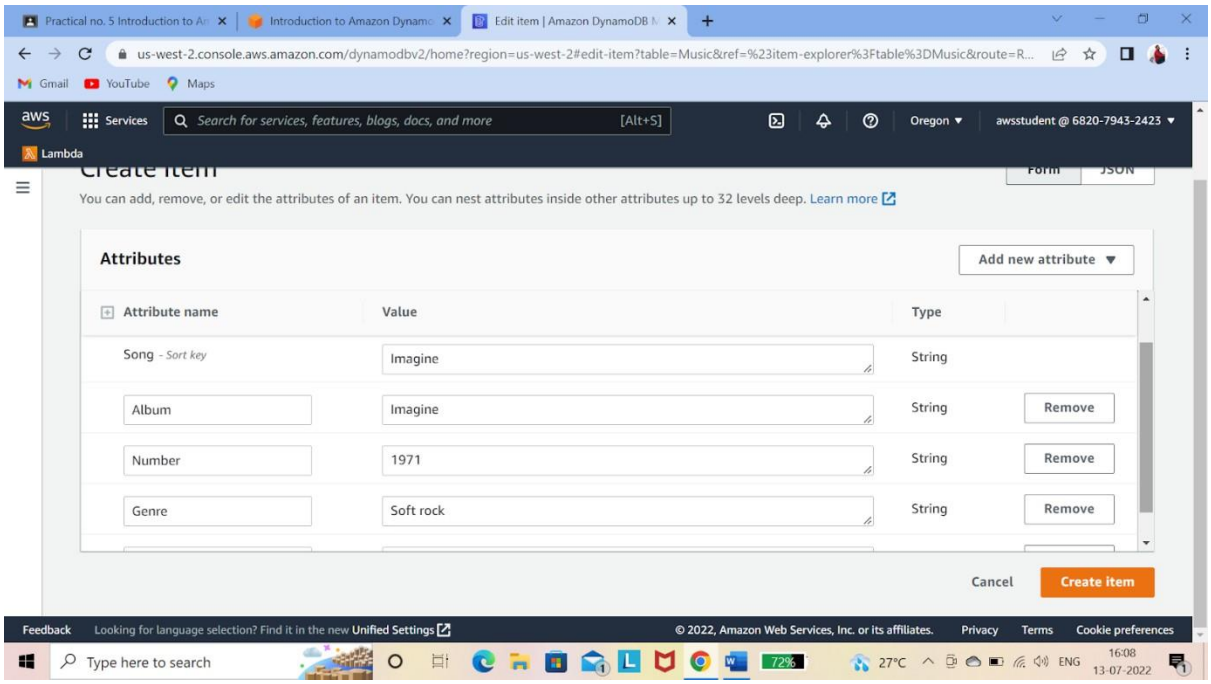
4--choose add one new attribute

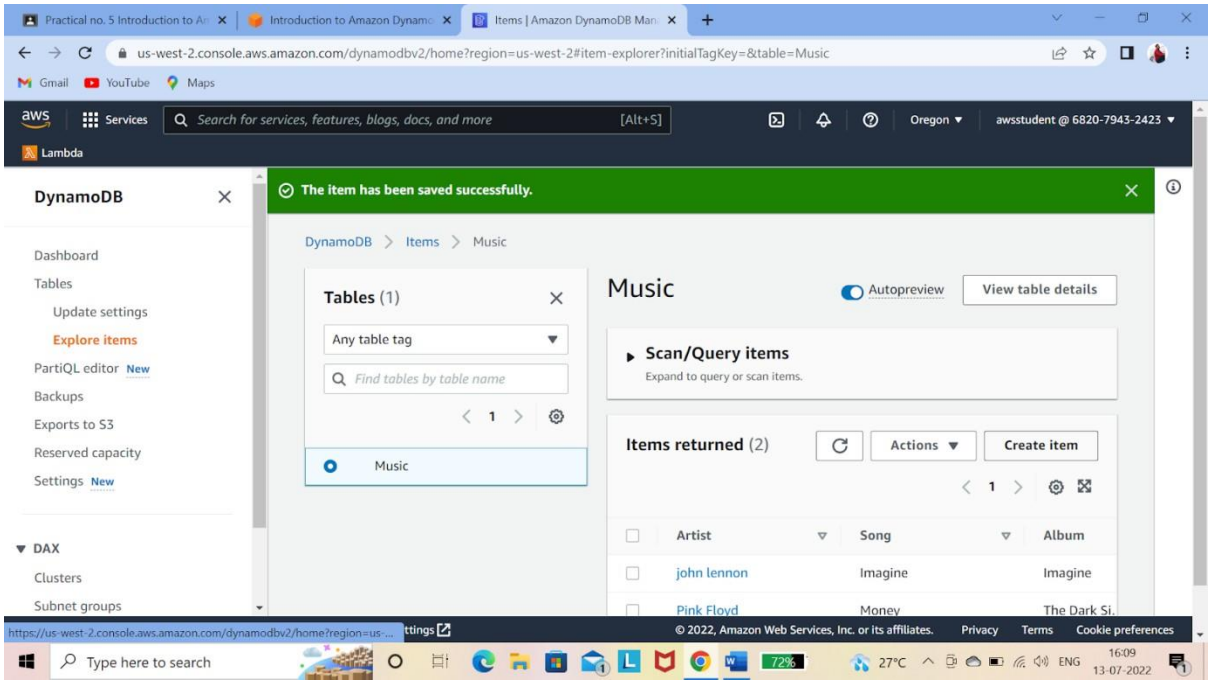
---in the dropdown list, select string and added new row

---for new attribute, enter

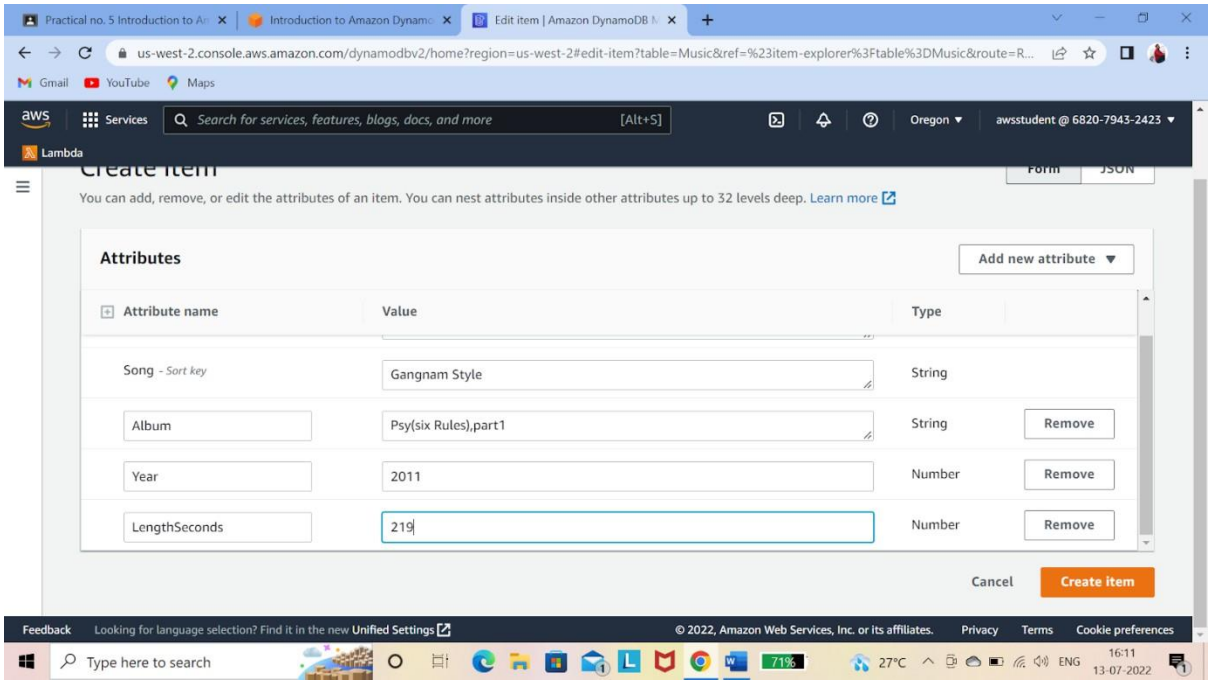
--In Field Type: year

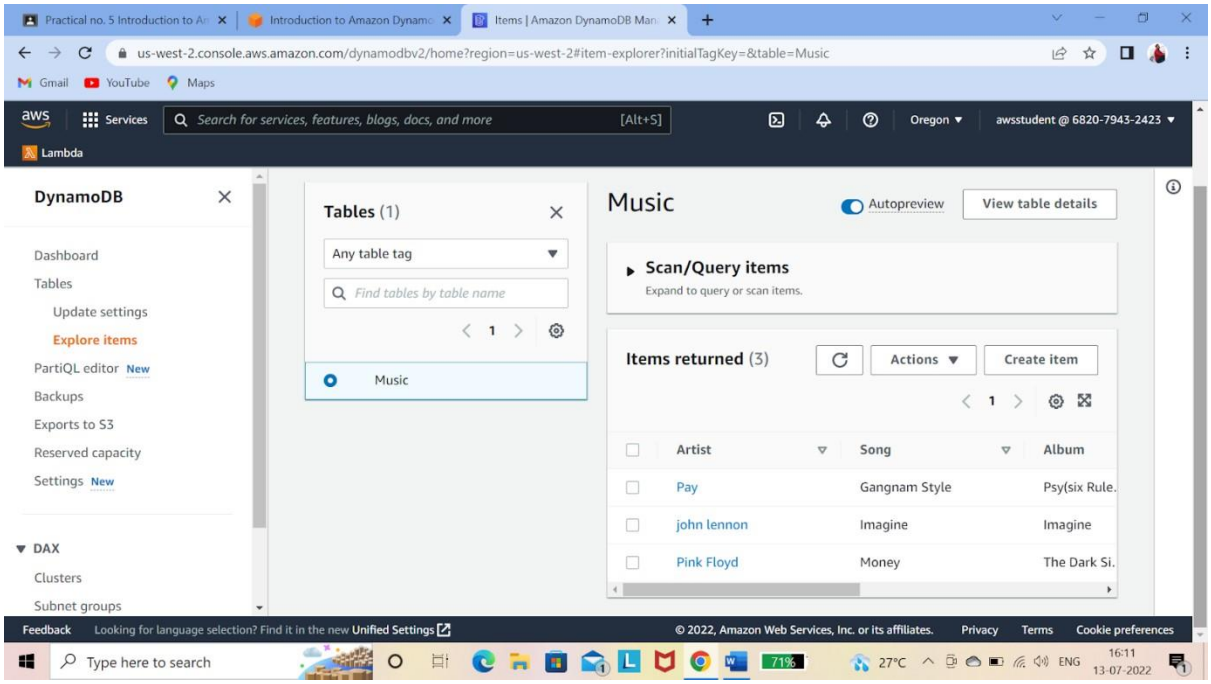
--**In value type:** 1973





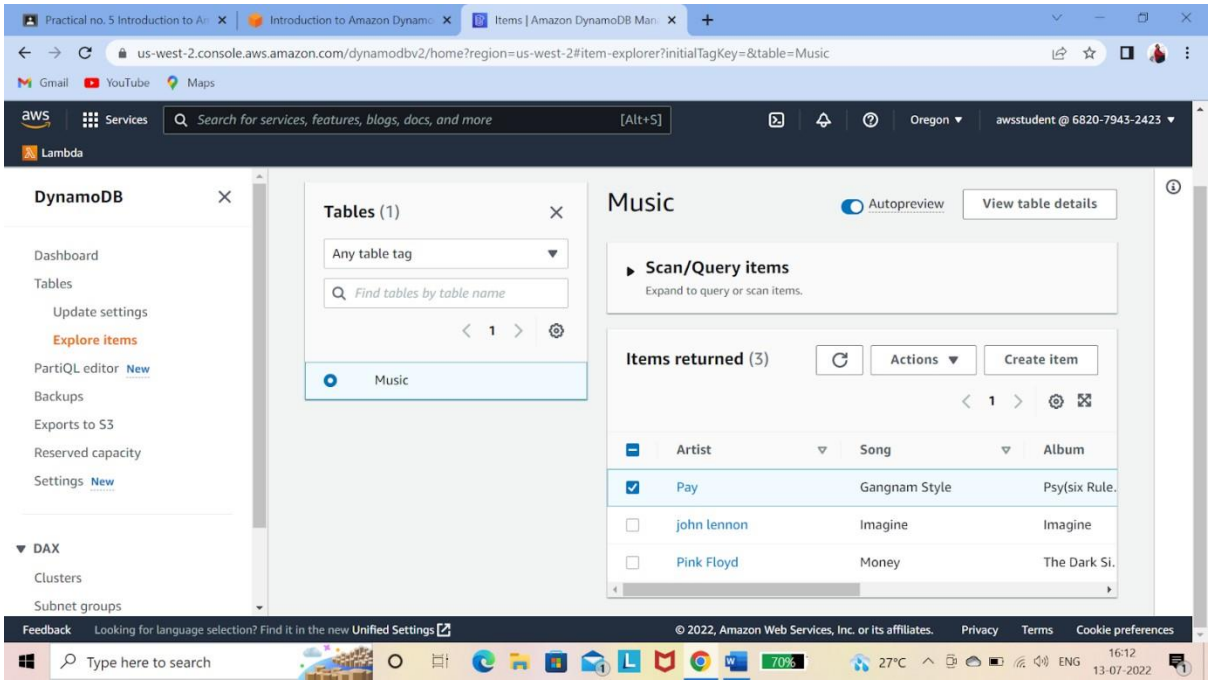
5--choose second new attribute and create table successfully.



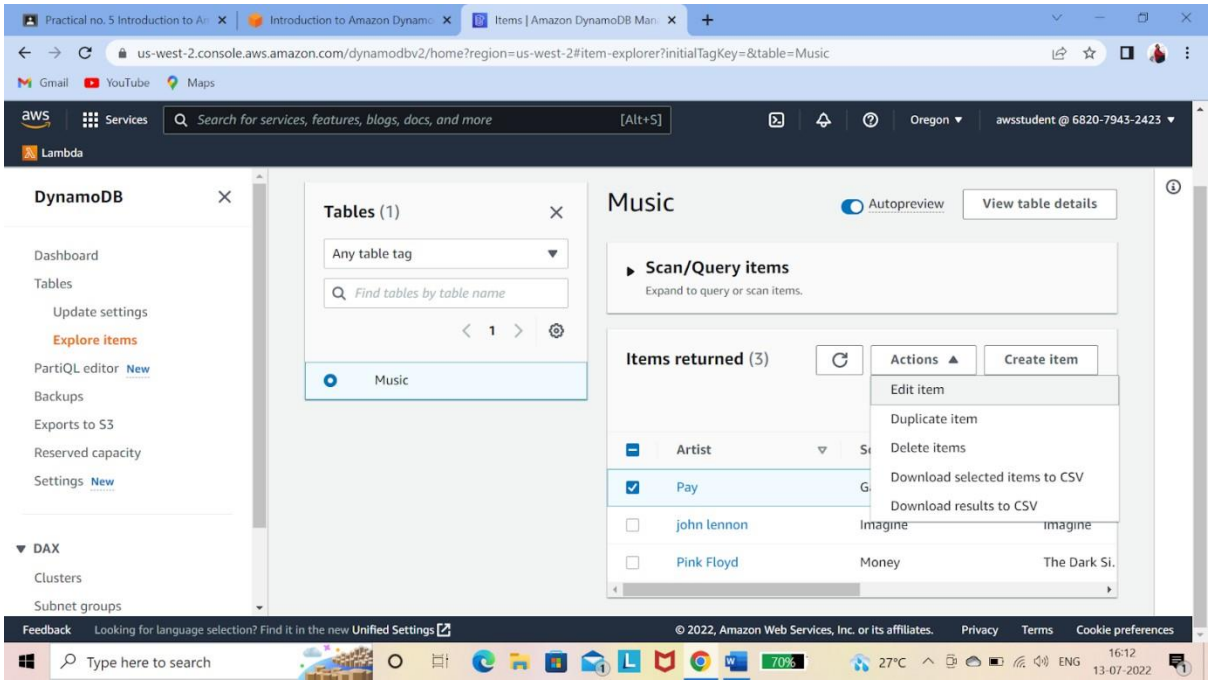


Task—3

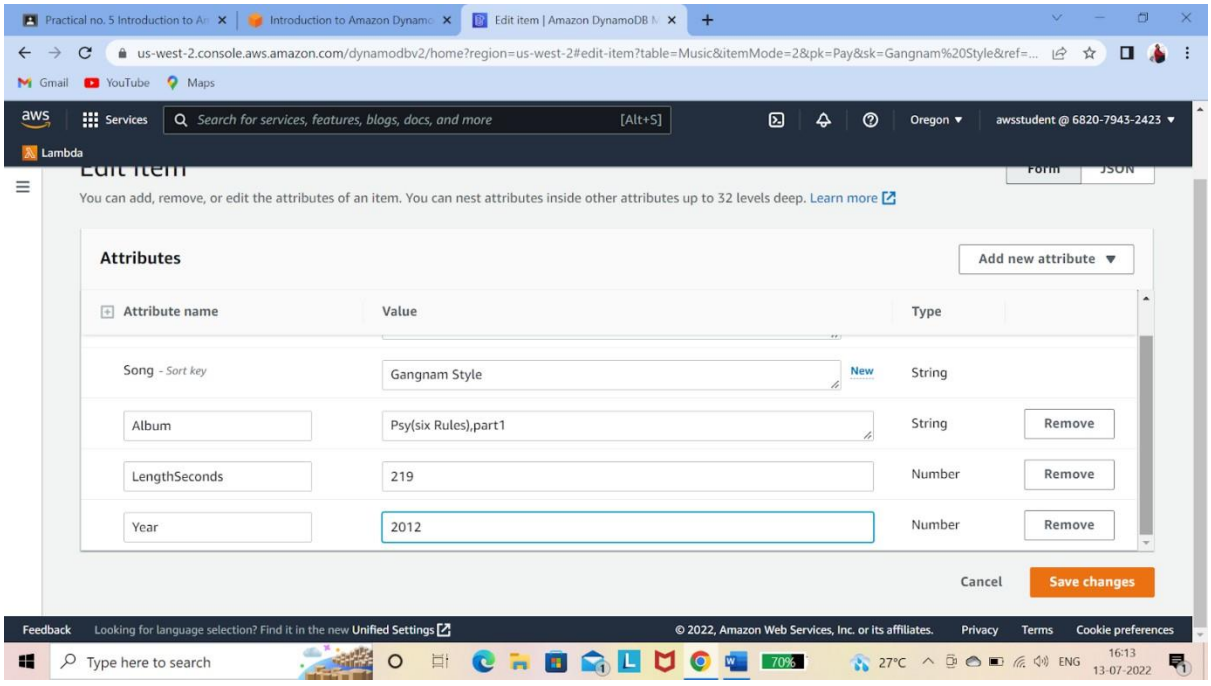
1--Choose Pay



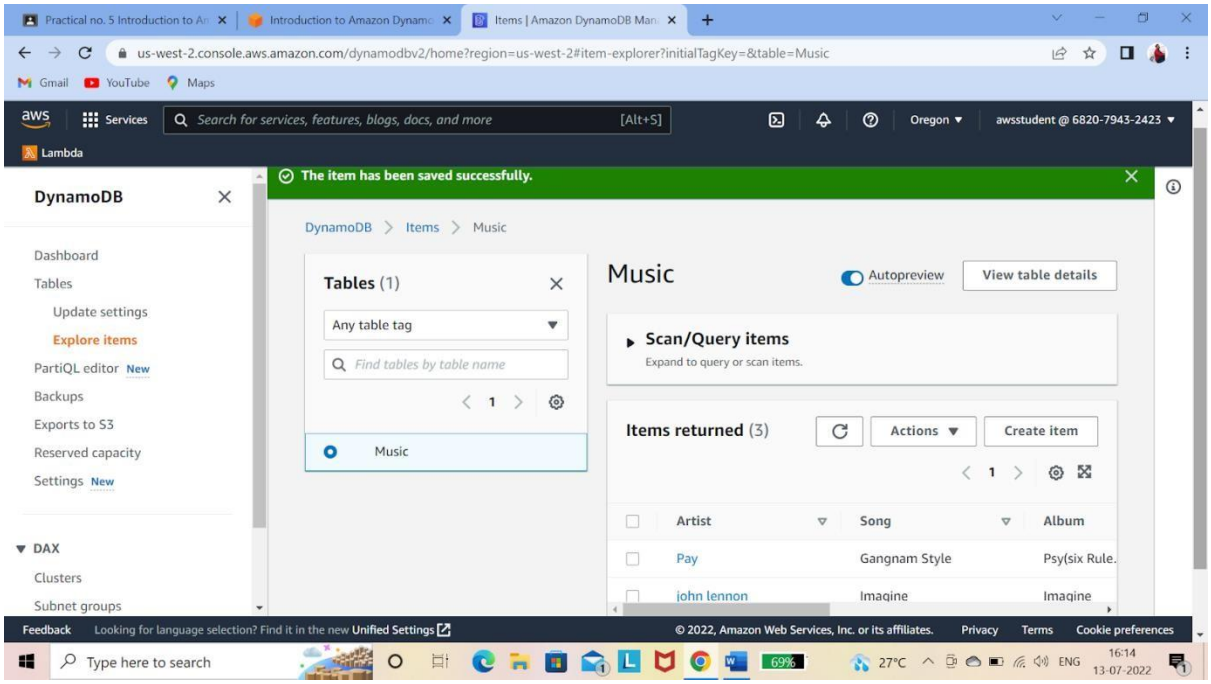
2—click on action and select edit item

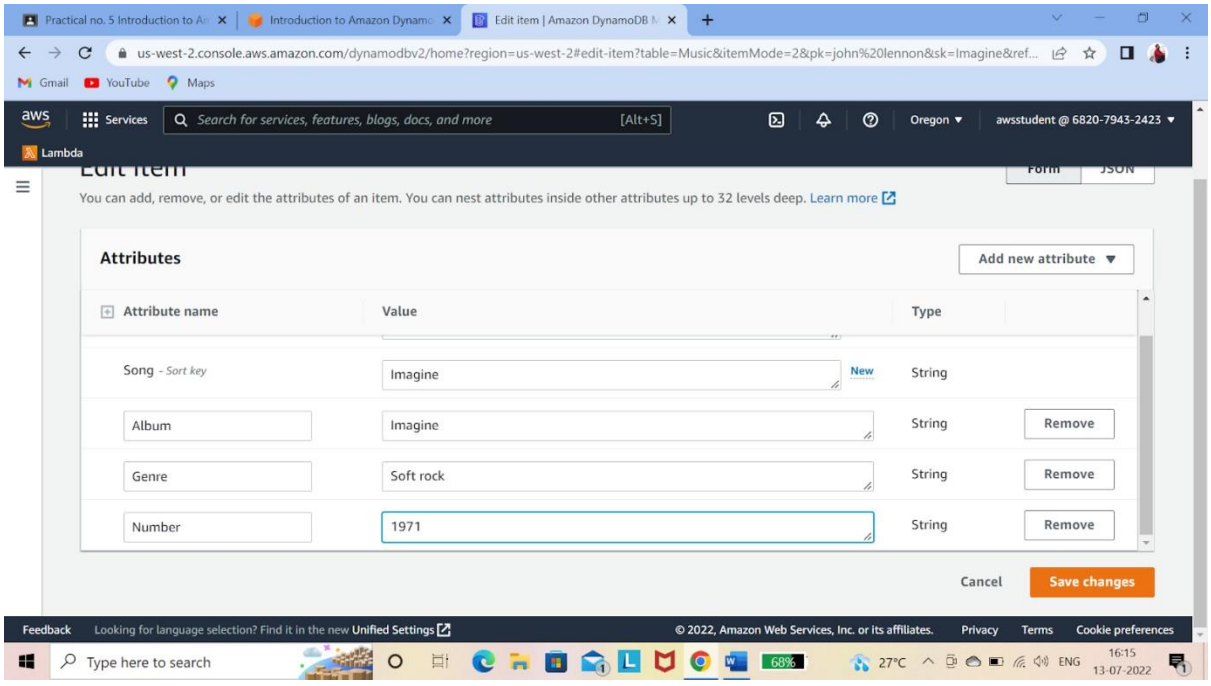


3--In the year attribute name change year and click on save changes.



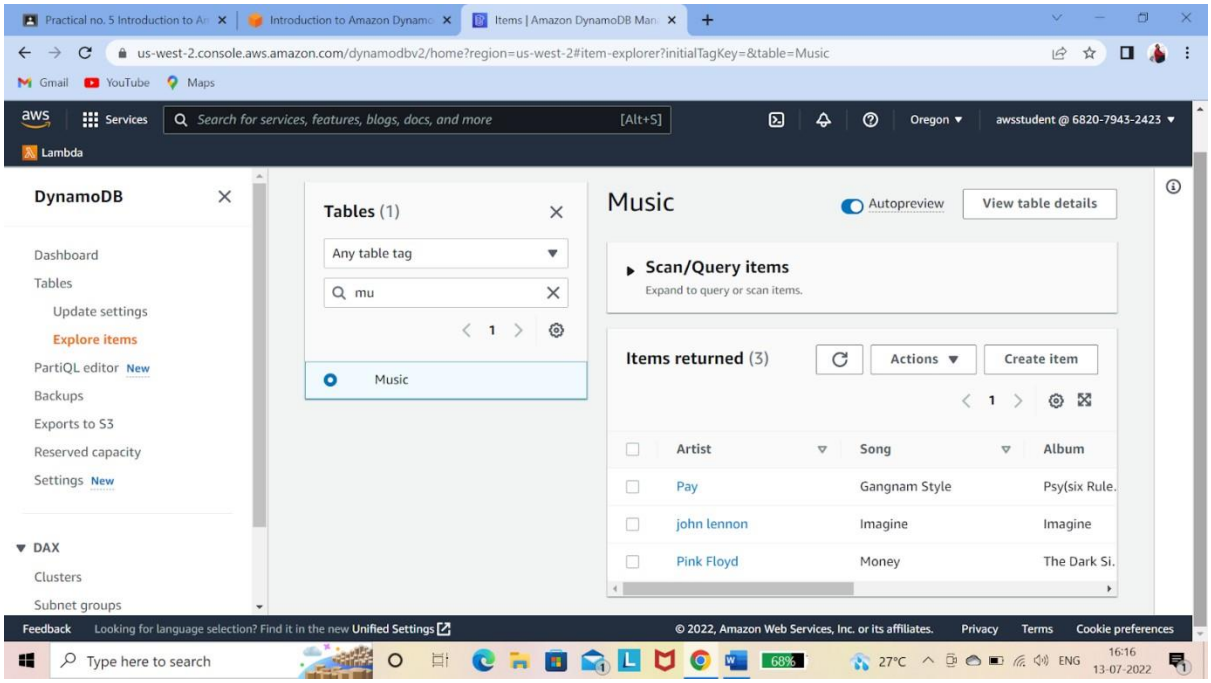
4—successfully item saved.





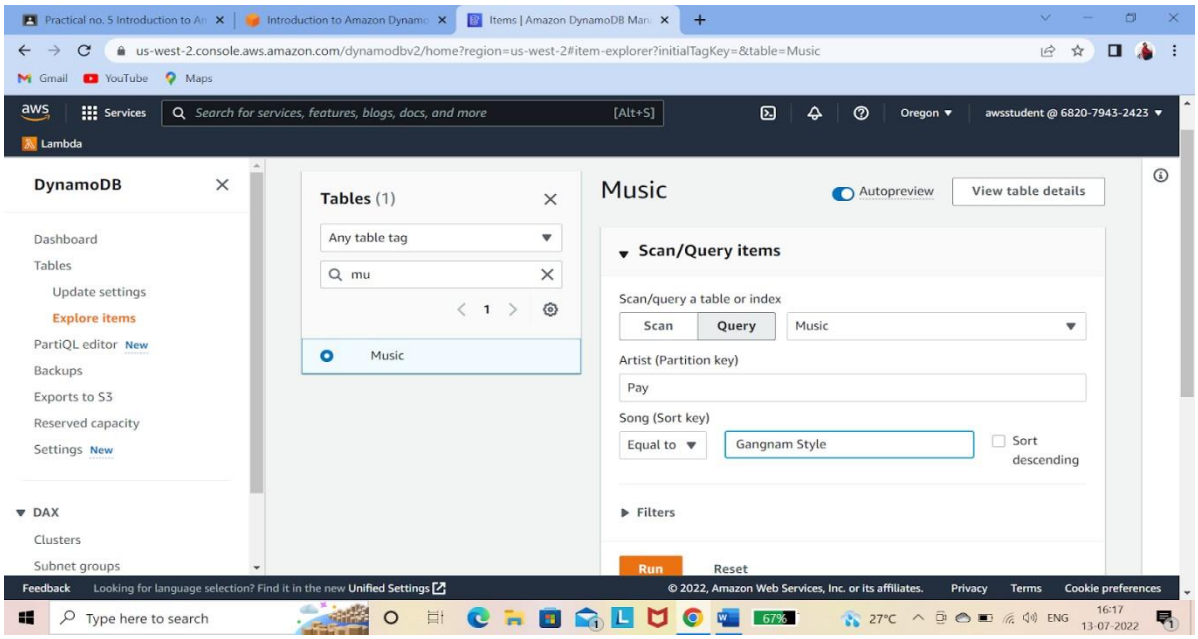
Task—4 Query the table

1—in the left navigation pane, choose explore items
Choose music
Expand Scan/query items to query or scan items
Choose a query.

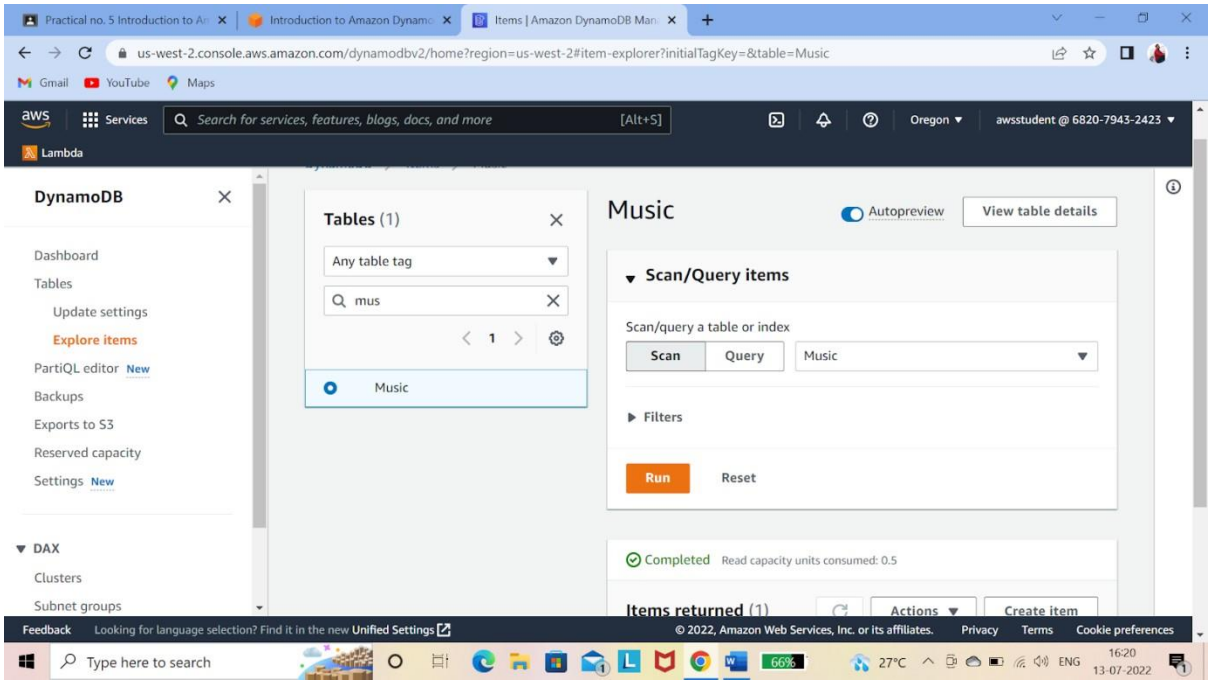


2. enter details

Artist (partition key): pay
Song (sort key): Gangnam Style
Choose Run



3—choose scan

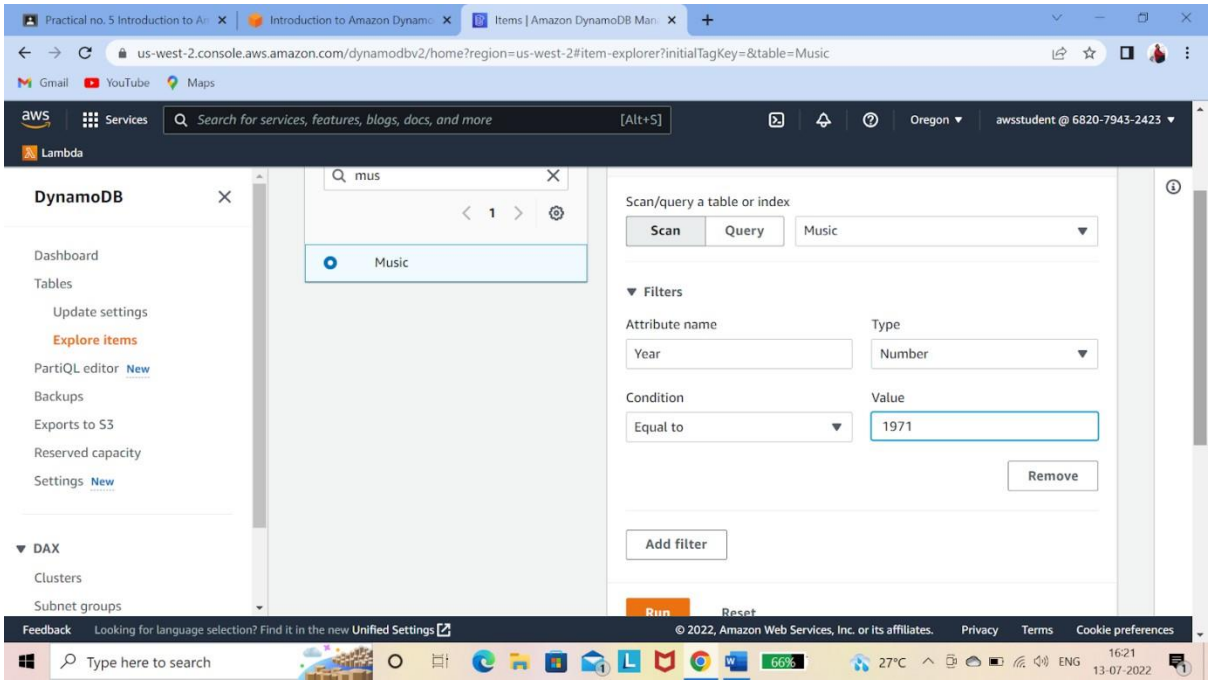


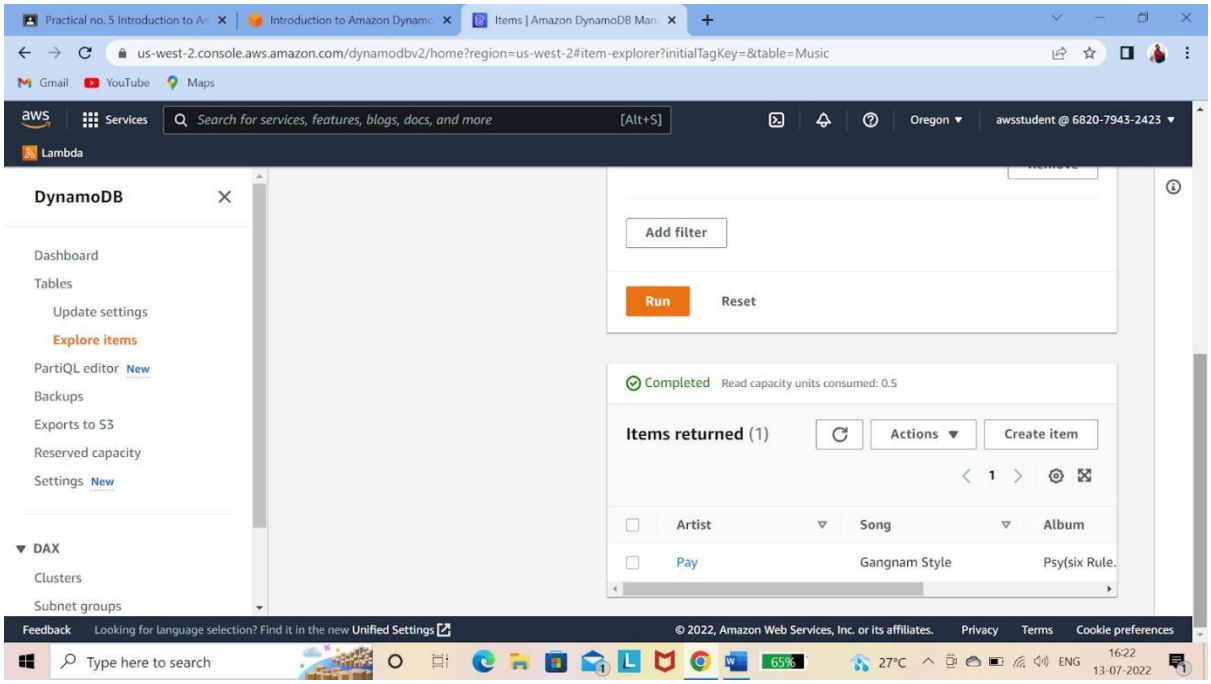
4—Attribute name: Year

-Type: Number

-Value:1971

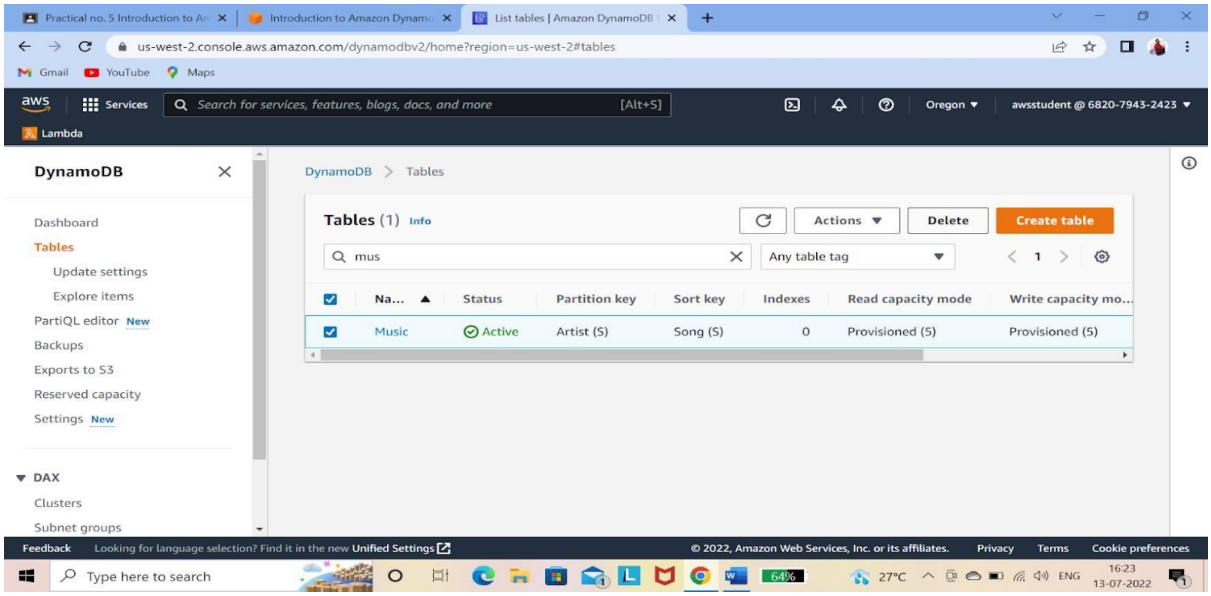
Choose Run





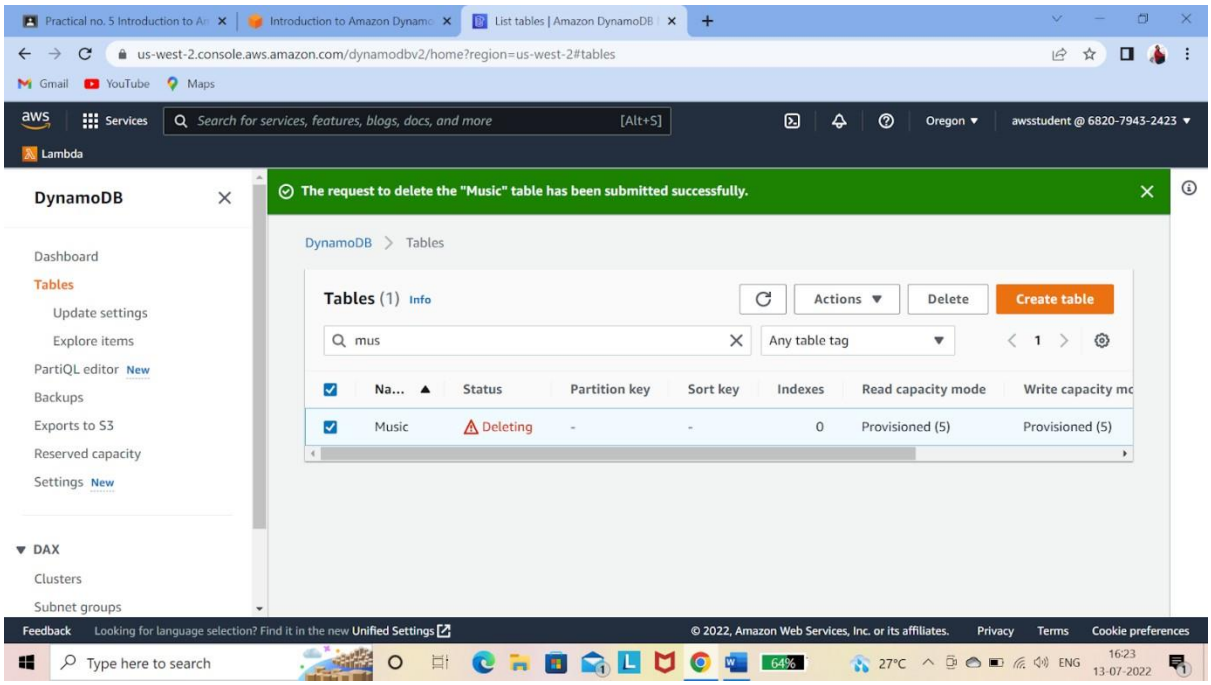
Task—5 Delete the table

In the left navigation pane, choose tables.
Choose the music table

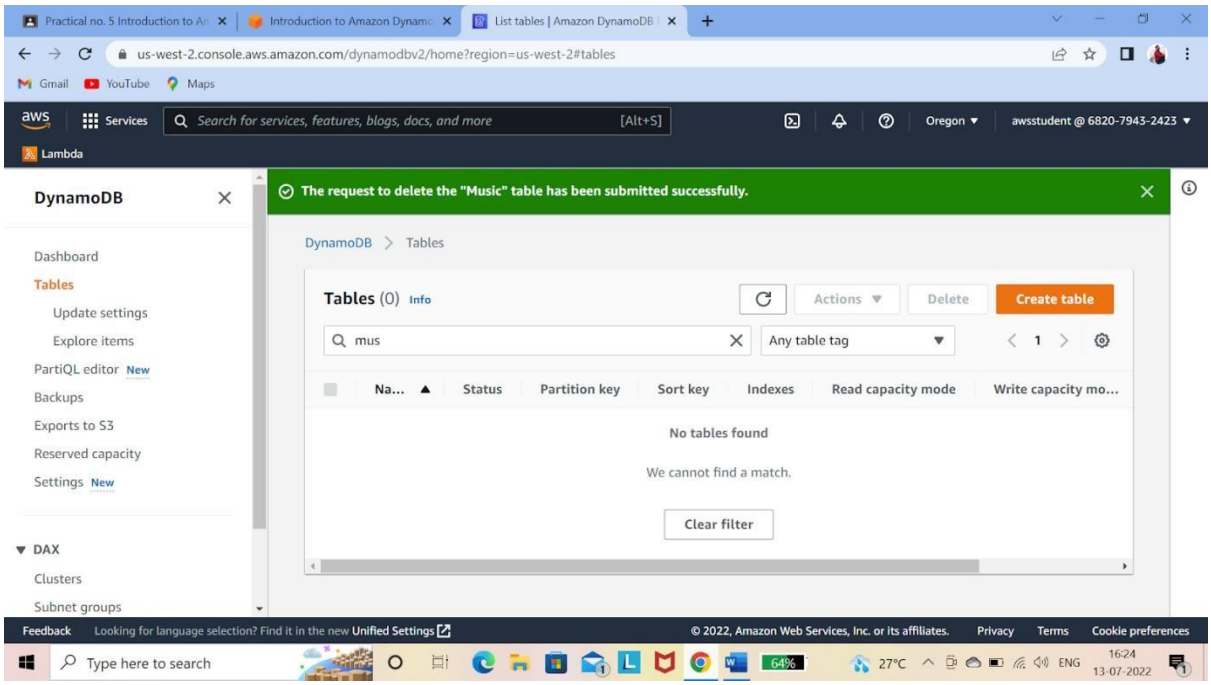


2--- Enter delete

Choose delete table



3-- The table will be deleted

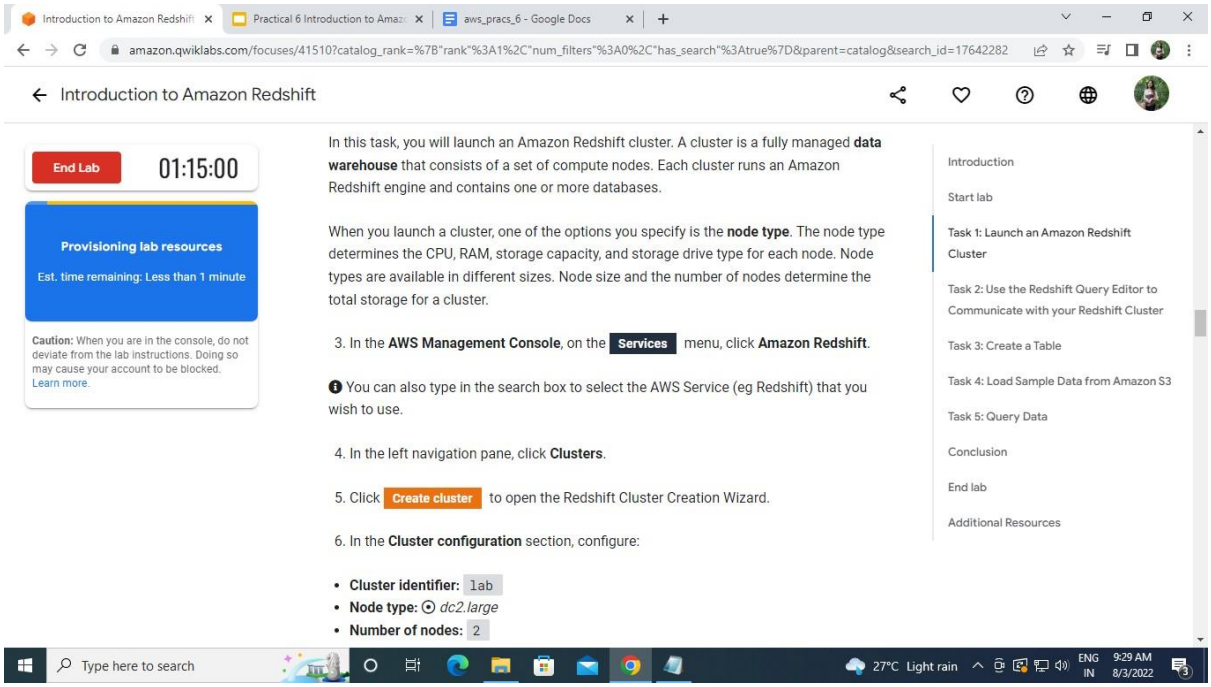


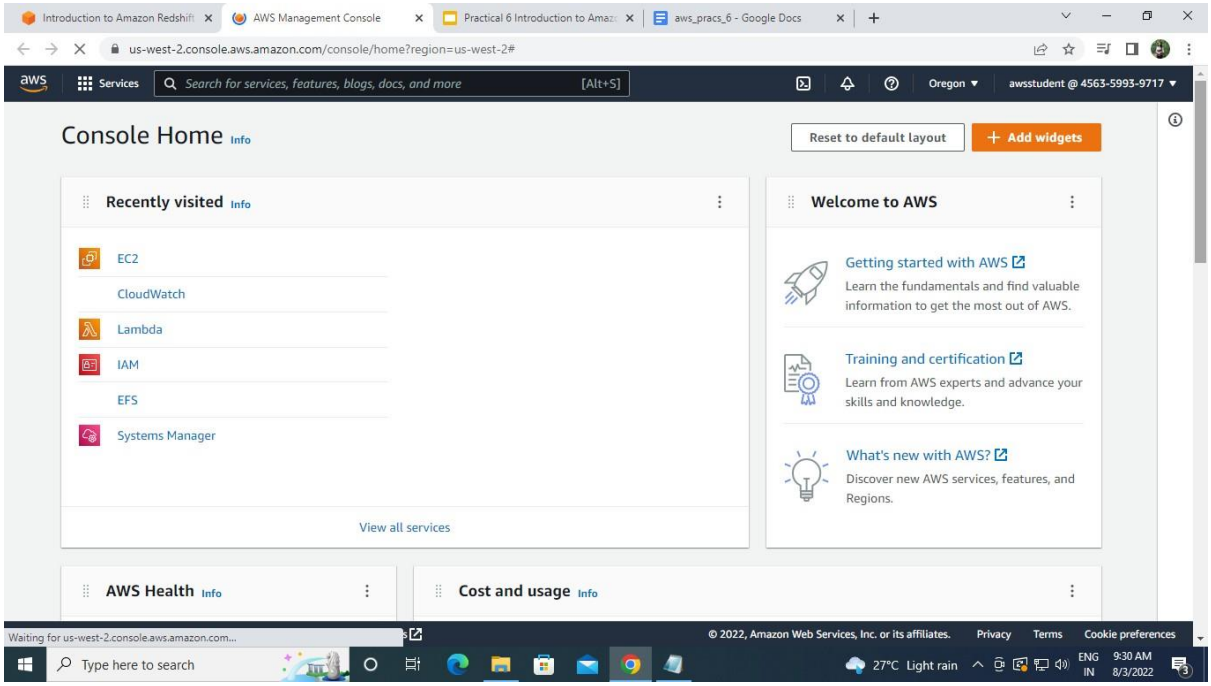
Practical No. 6

Task 1: Launch an Amazon Redshift Cluster In this task, you will launch an Amazon Redshift cluster.

A cluster is a fully managed data warehouse that consists of a set of compute nodes. Each cluster runs an Amazon Redshift engine and contains one or more databases.

When you launch a cluster, one of the options you specify is the node type. The node type determines the CPU, RAM, storage capacity, and storage drive type for each node. Node types are available in different sizes. Node size and the number of nodes determine the total storage for a cluster.

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Reset to default layout
+ Add widgets
Recently visited Info
EC2
CloudWatch
Lambda
IAM
EFS
Systems Manager
View all services
Welcome to AWS
Getting started with AWS
Learn the fundamentals and find valuable information to get the most out of AWS.
Training and certification
Learn from AWS experts and advance your skills and knowledge.
What's new with AWS?
Discover new AWS services, features, and Regions.
AWS Health Info
Cost and usage Info
Waiting for us-west-2.console.aws.amazon.com...
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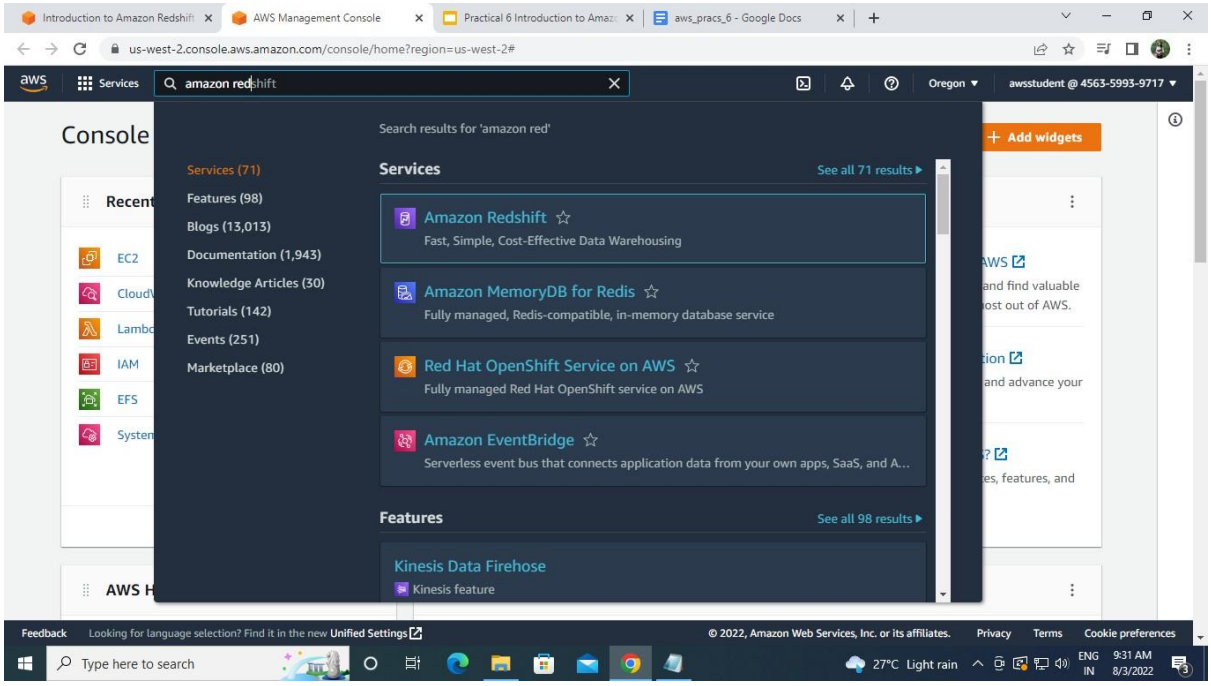
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Oregon
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Console
+ Add widgets
Search results for 'amazon red'
Services (71)
Features (98)
Blogs (13,013)
Documentation (1,943)
Knowledge Articles (30)
Tutorials (142)
Events (251)
Marketplace (80)
Services
See all 71 results
Amazon Redshift
Fast, Simple, Cost-Effective Data Warehousing
Amazon MemoryDB for Redis
Fully managed, Redis-compatible, in-memory database service
Red Hat OpenShift Service on AWS
Fully managed Red Hat OpenShift service on AWS
Amazon EventBridge
Serverless event bus that connects application data from your own apps, SaaS, and A...
Features
See all 98 results
Kinesis Data Firehose
Kinesis feature
Feedback
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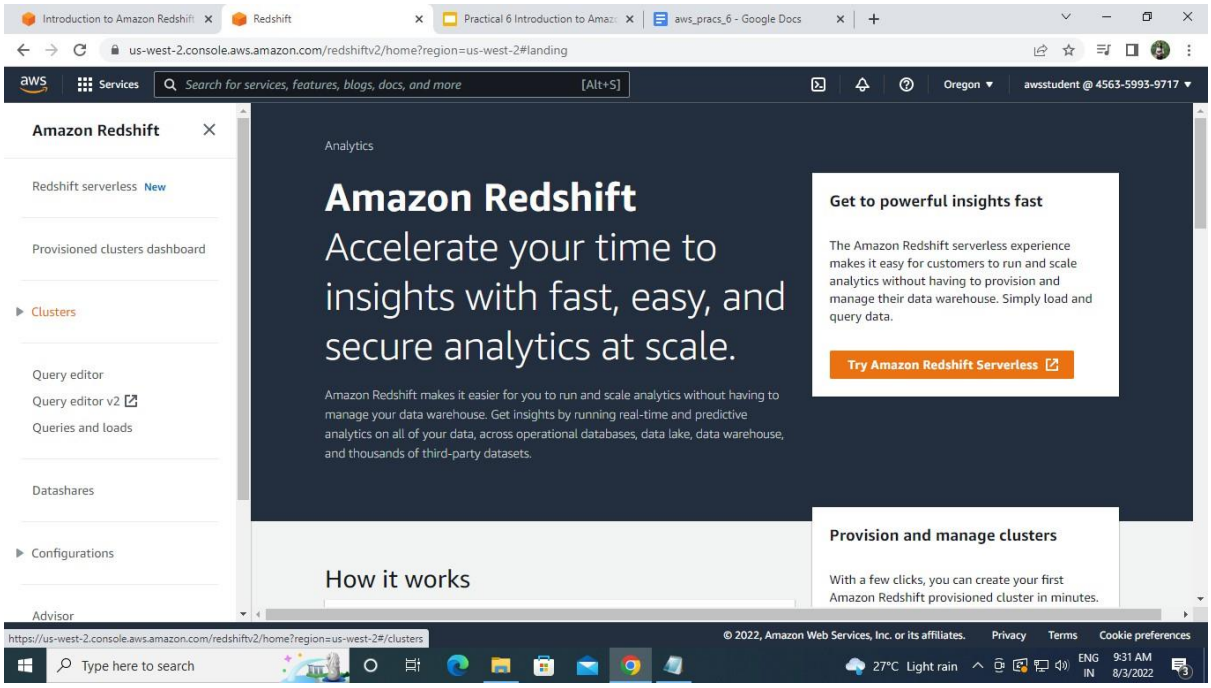
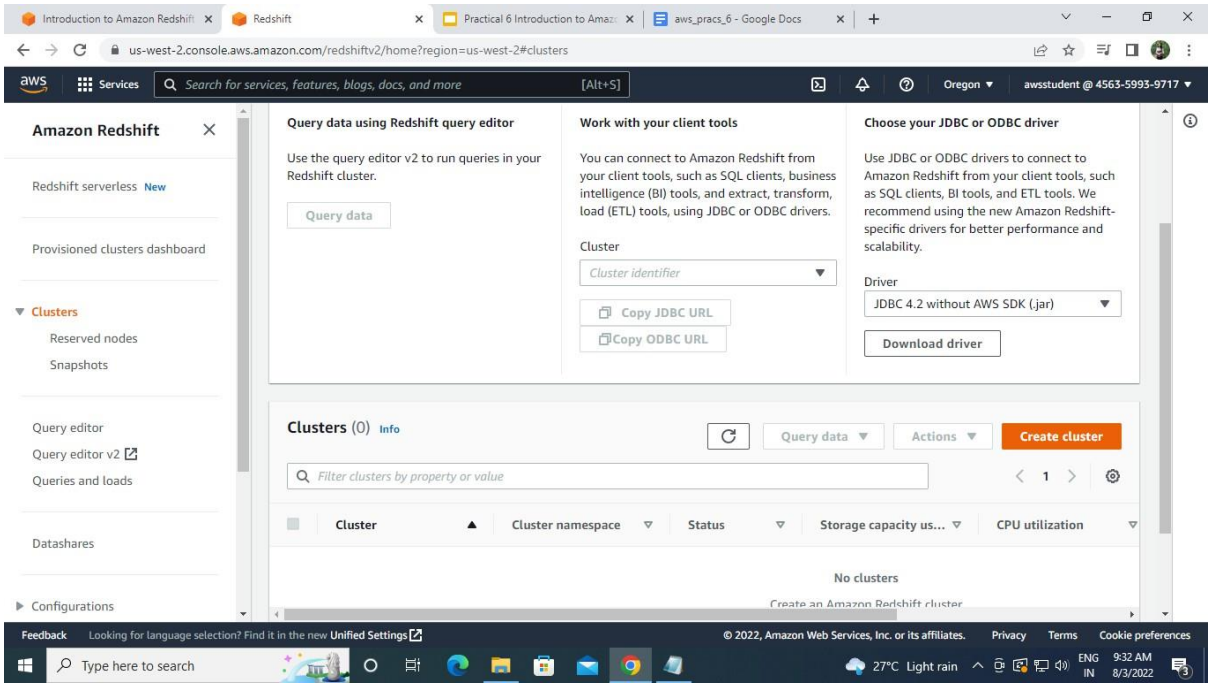
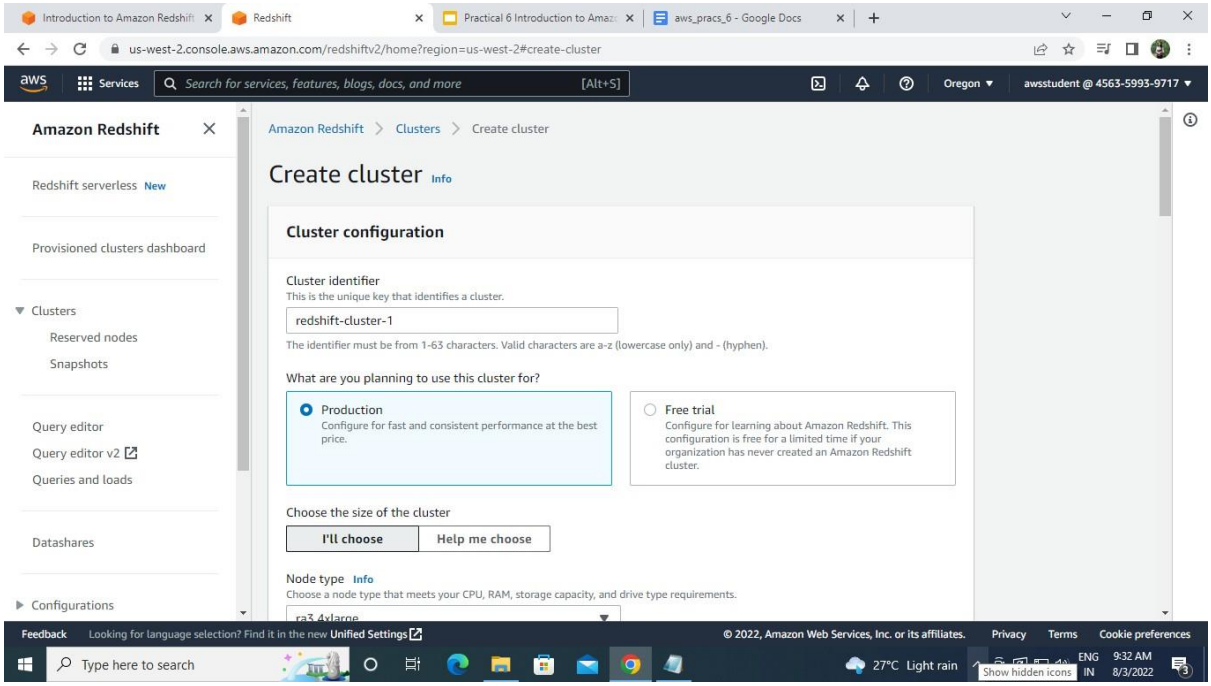


3. In the AWS Management Console, on the Services menu, click Amazon Redshift.

You can also type in the search box to select the AWS Service (eg Redshift) that you wish to use.

4. In the left navigation pane, click Clusters.

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us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#create-cluster
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Amazon Redshift
Redshift serverless New
Provisioned clusters dashboard
Clusters
Reserved nodes
Snapshots
Query editor
Query editor v2
Queries and loads
Datashares
Configurations
Amazon Redshift > Clusters > Create cluster
Create cluster Info
Cluster configuration
Cluster identifier
This is the unique key that identifies a cluster.
redshift-cluster-1
The identifier must be from 1-63 characters. Valid characters are a-z (lowercase only) and - (hyphen).
What are you planning to use this cluster for?
Production
Configure for fast and consistent performance at the best price.
Free trial
Configure for learning about Amazon Redshift. This configuration is free for a limited time if your organization has never created an Amazon Redshift cluster.
Choose the size of the cluster
I'll choose
Help me choose
Node type Info
Choose a node type that meets your CPU, RAM, storage capacity, and drive type requirements.
ra3.4xlarge
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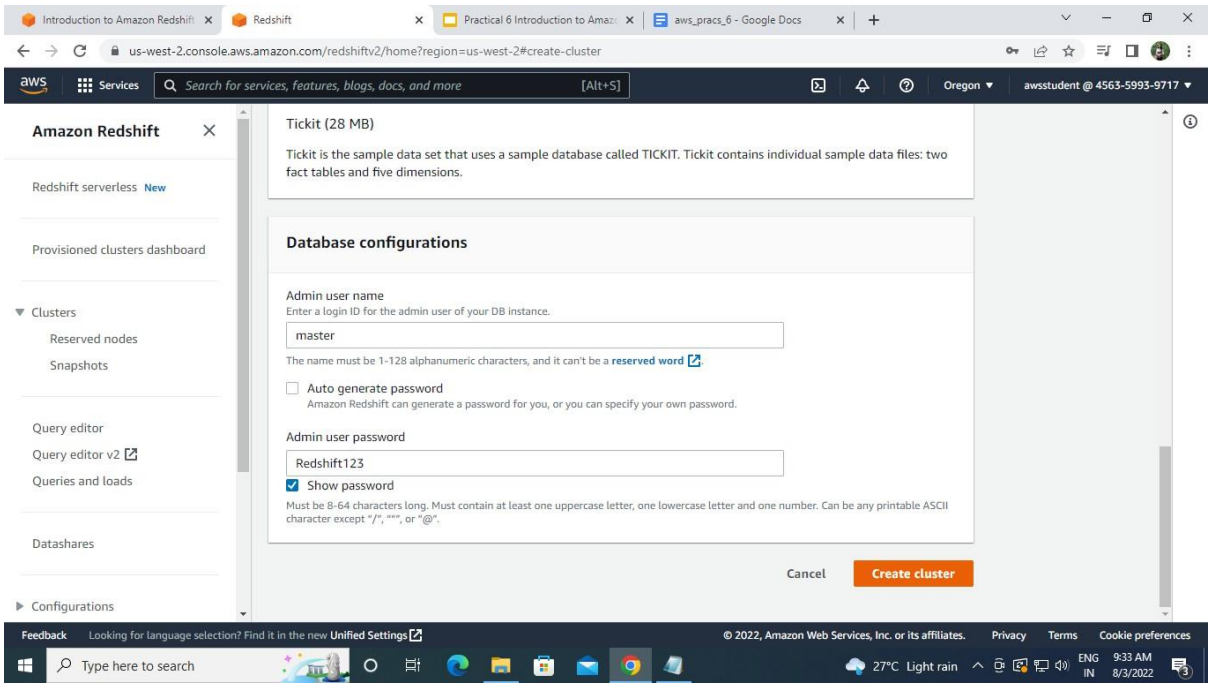
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us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#create-cluster
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Query editor
Query editor v2
Queries and loads
Datashares
Configurations
Tickit (28 MB)
Tickit is the sample data set that uses a sample database called TICKIT. Tickit contains individual sample data files: two fact tables and five dimensions.
Database configurations
Admin user name
Enter a login ID for the admin user of your DB instance.
master
The name must be 1-128 alphanumeric characters, and it can't be a reserved word.
Auto generate password
Amazon Redshift can generate a password for you, or you can specify your own password.
Admin user password
Redshift123
Show password
Must be 8-64 characters long. Must contain at least one uppercase letter, one lowercase letter and one number. Can be any printable ASCII character except "/", """, or "@".
Cancel
Create cluster
Feedback
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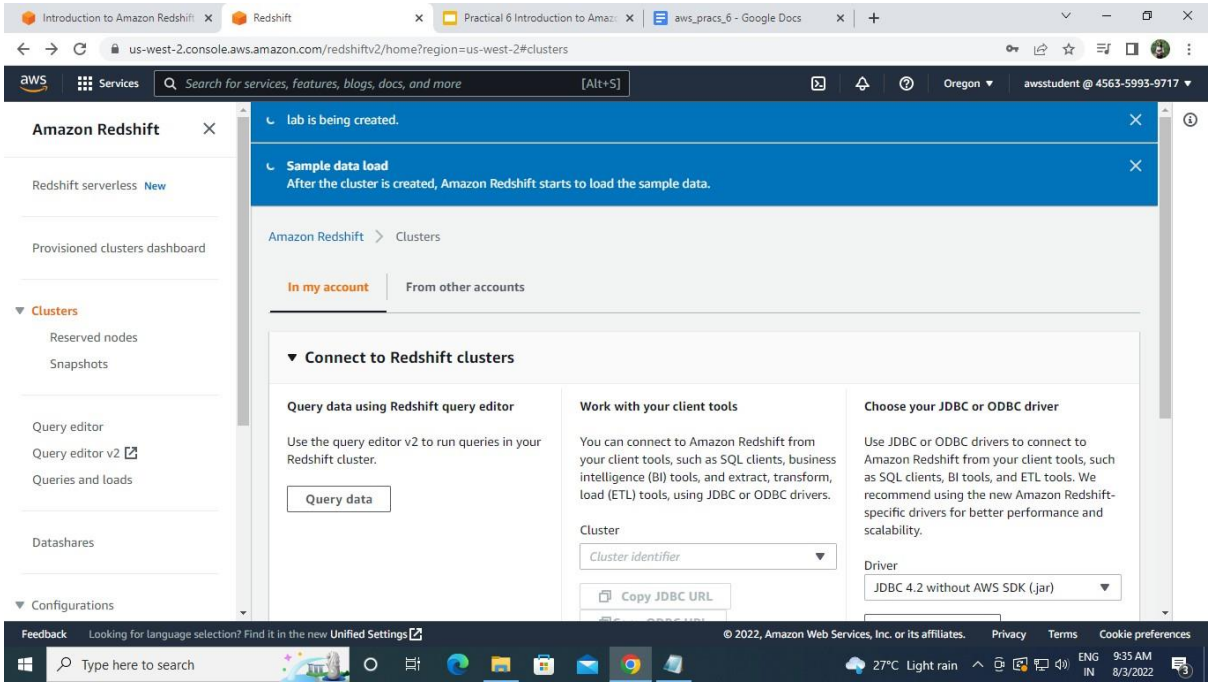
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Redshift serverless New
Provisioned clusters dashboard
Clusters
Reserved nodes
Snapshots
Query editor
Query editor v2
Queries and loads
Datashares
Configurations
lab is being created.
Sample data load
After the cluster is created, Amazon Redshift starts to load the sample data.
Amazon Redshift > Clusters
In my account
From other accounts
Connect to Redshift clusters
Query data using Redshift query editor
Use the query editor v2 to run queries in your Redshift cluster.
Query data
Work with your client tools
You can connect to Amazon Redshift from your client tools, such as SQL clients, business intelligence (BI) tools, and extract, transform, load (ETL) tools, using JDBC or ODBC drivers.
Cluster
Cluster identifier
Copy JDBC URL
Choose your JDBC or ODBC driver
Use JDBC or ODBC drivers to connect to Amazon Redshift from your client tools, such as SQL clients, BI tools, and ETL tools. We recommend using the new Amazon Redshift-specific drivers for better performance and scalability.
Driver
JDBC 4.2 without AWS SDK (.jar)
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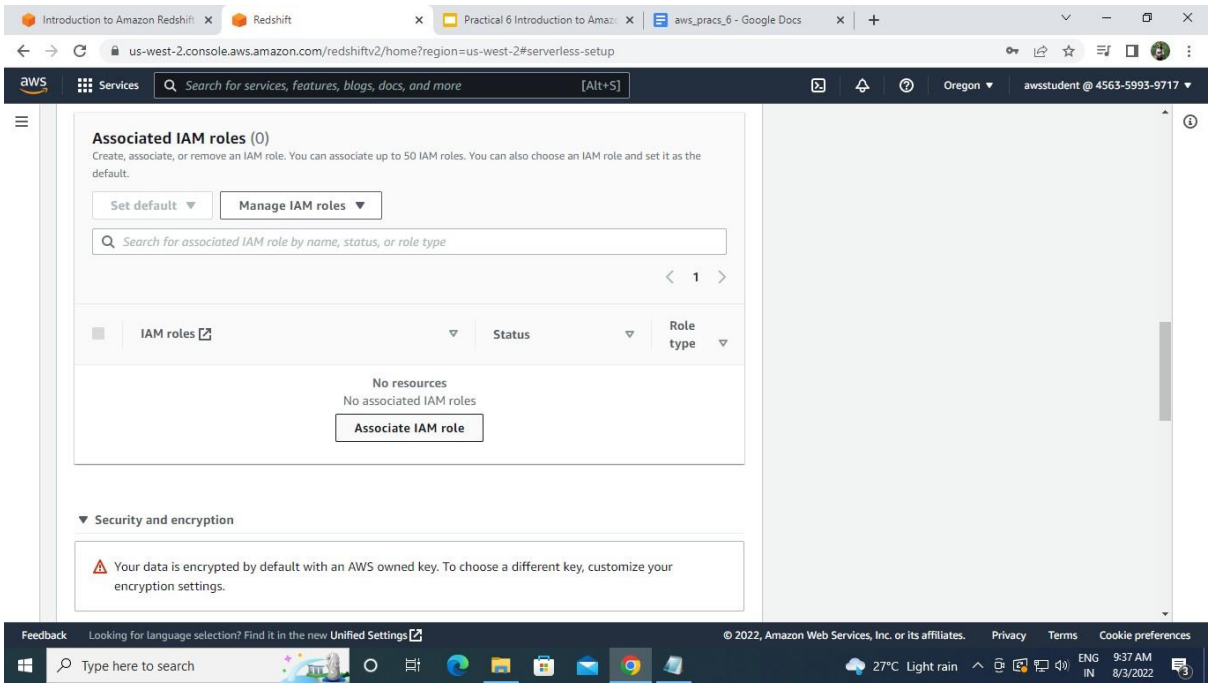
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Associated IAM roles (0)
Create, associate, or remove an IAM role. You can associate up to 50 IAM roles. You can also choose an IAM role and set it as the default.
Set default
Manage IAM roles
Search for associated IAM role by name, status, or role type
1
IAM roles
Status
Role type
No resources
No associated IAM roles
Associate IAM role
Security and encryption
Your data is encrypted by default with an AWS owned key. To choose a different key, customize your encryption settings.
Feedback
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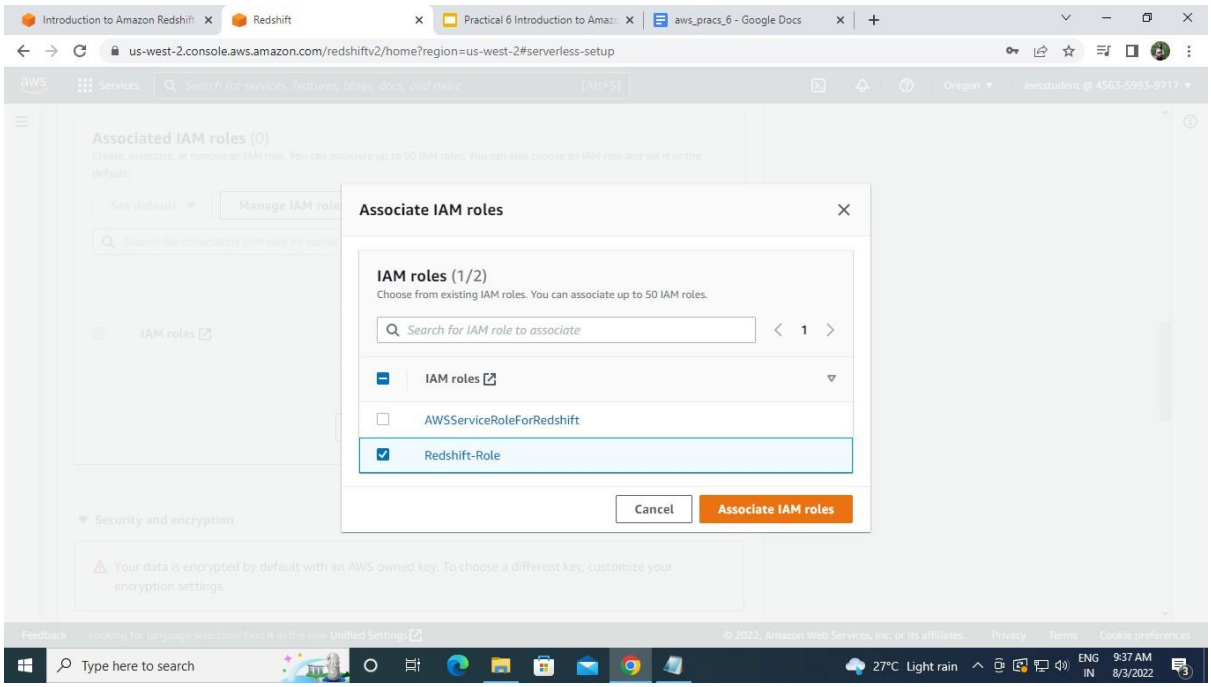
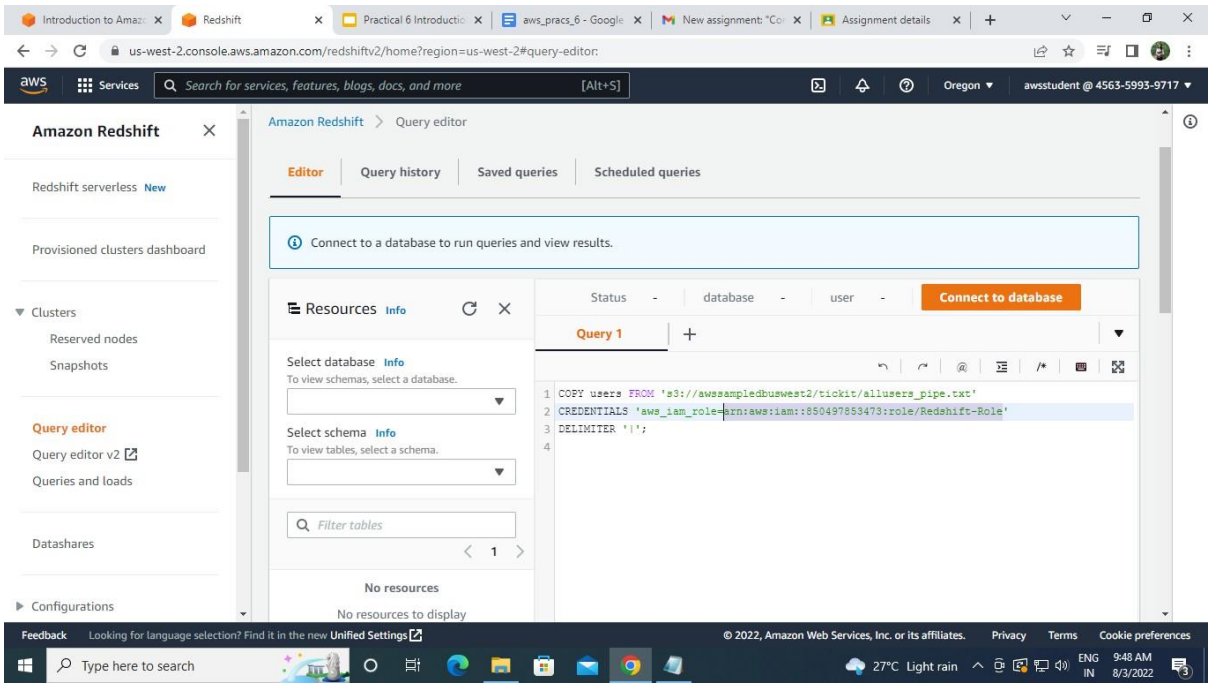
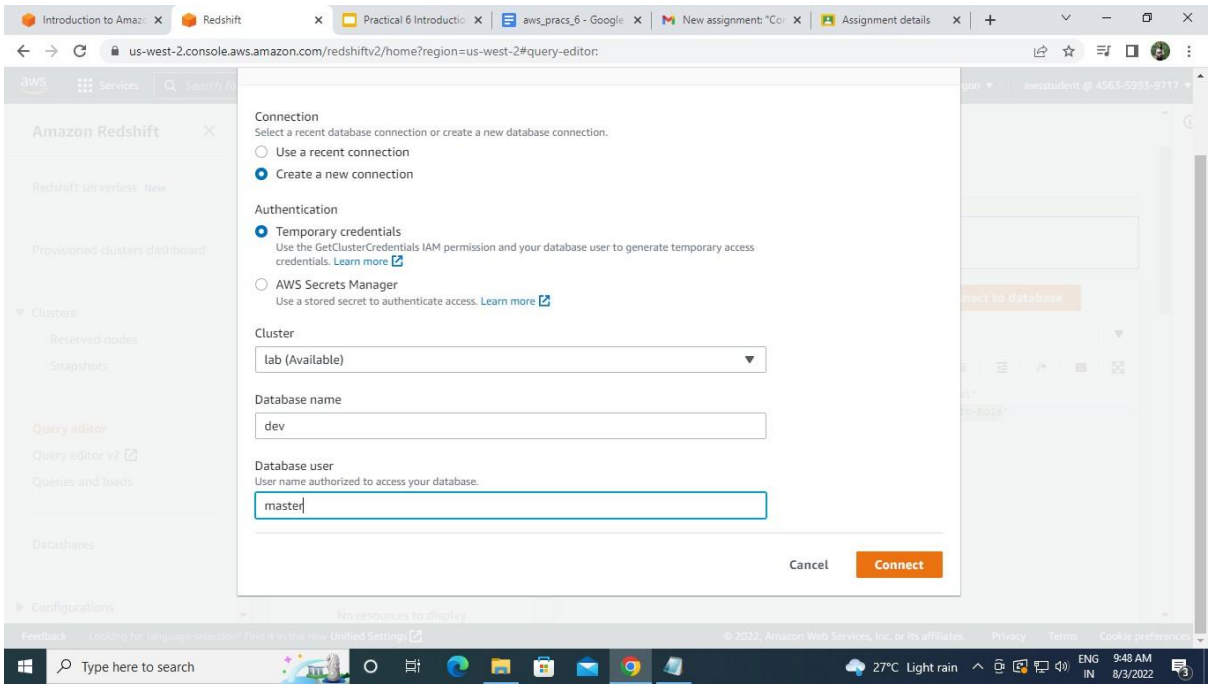
Task 2: Use the Redshift Query Editor to Communicate with your Redshift Cluster



Amazon Redshift can be used via industry-standard SQL.
To use Redshift, you require an SQL Client that provides a user interface to type SQL.

Any SQL client that supports JDBC or ODBC can be used with Redshift. For this lab, you will use the Amazon Redshift Query editor.





16. In the left navigation pane, click Query editor, then select Connect to database then configure:

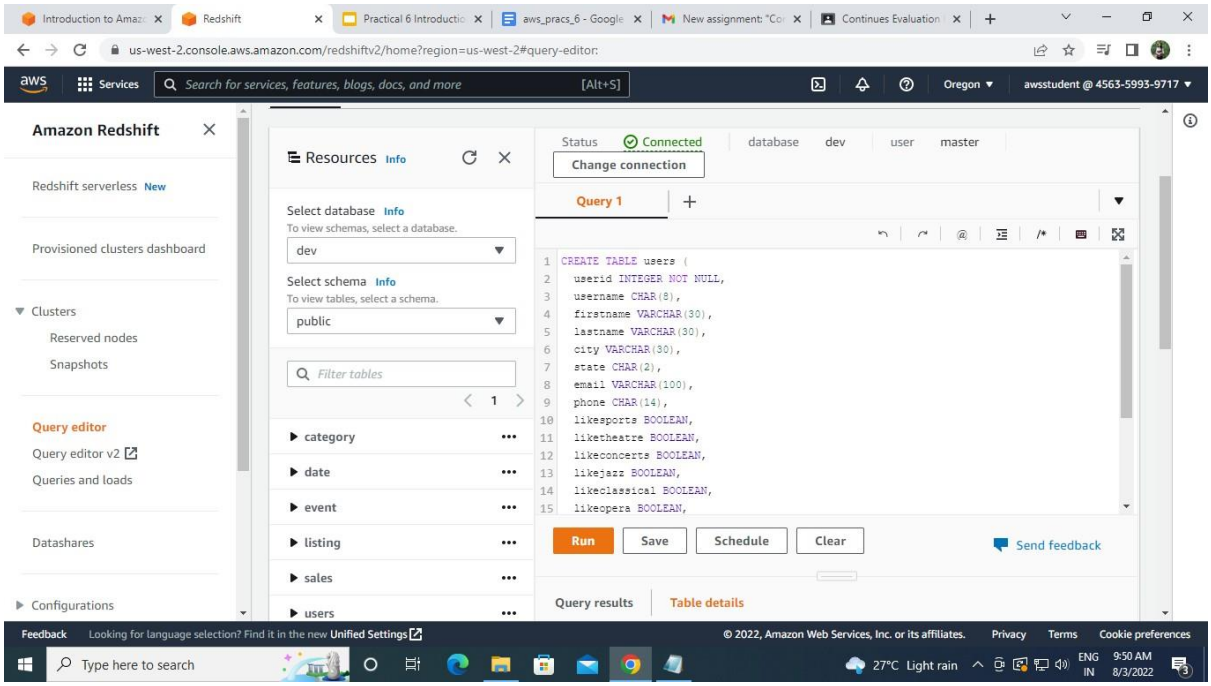
• Cluster: lab

• Database name: labdb

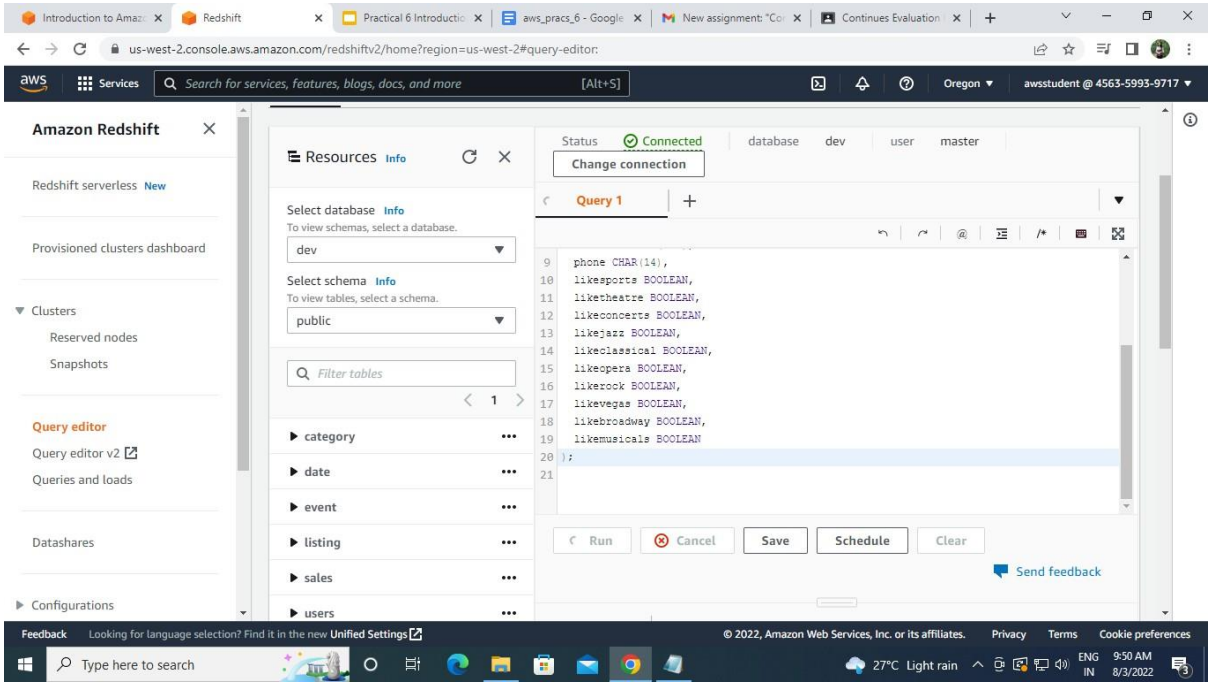
• Database user: master

17. Click Connect

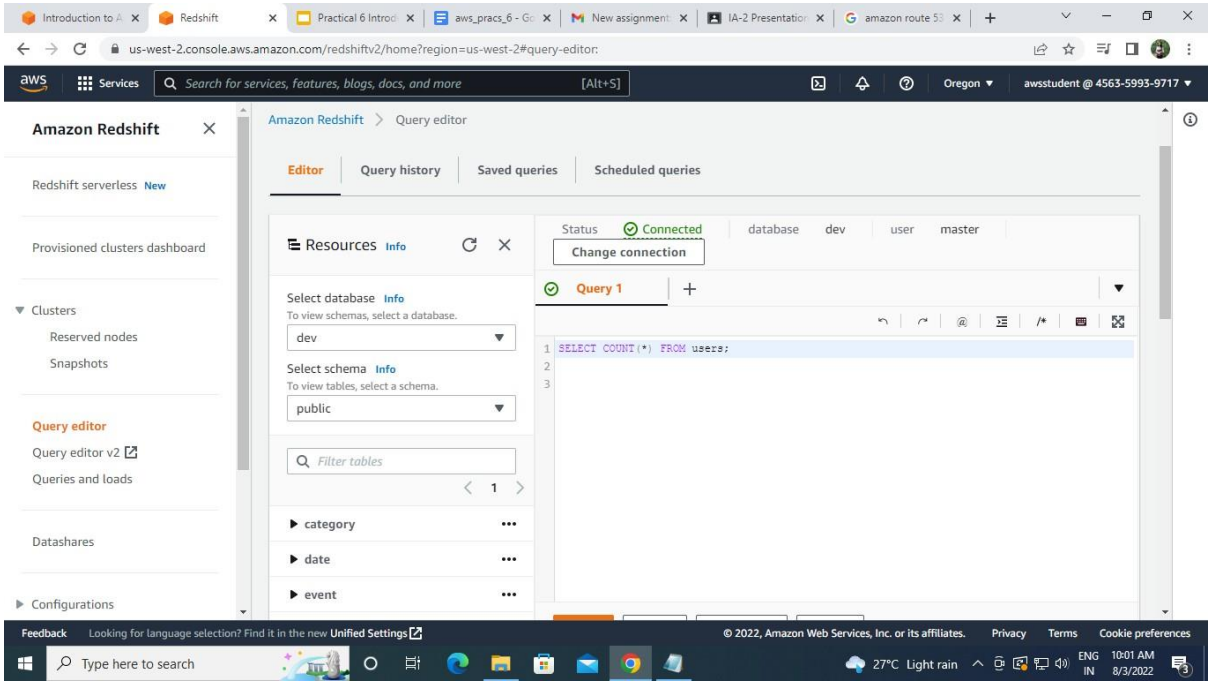
Task 3: Create a Table

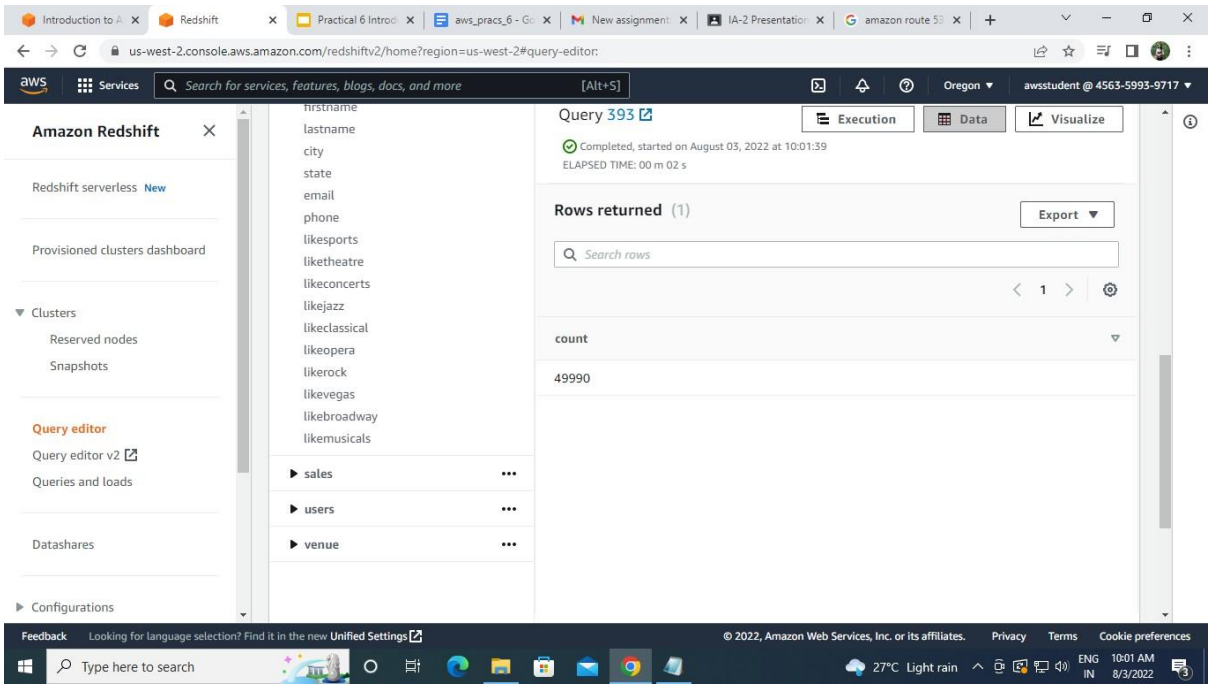


In this task, you will execute SQL commands to create a table in Redshift.

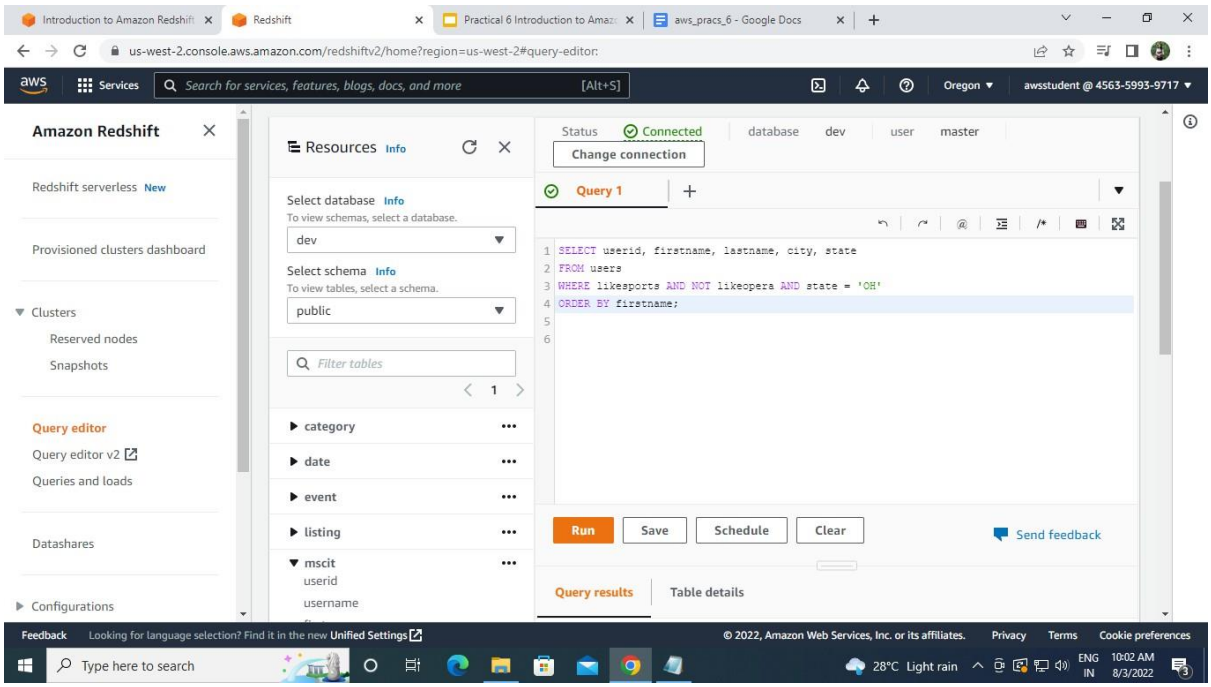


18. Copy this SQL command and paste it into the Query 1 window, then click Run



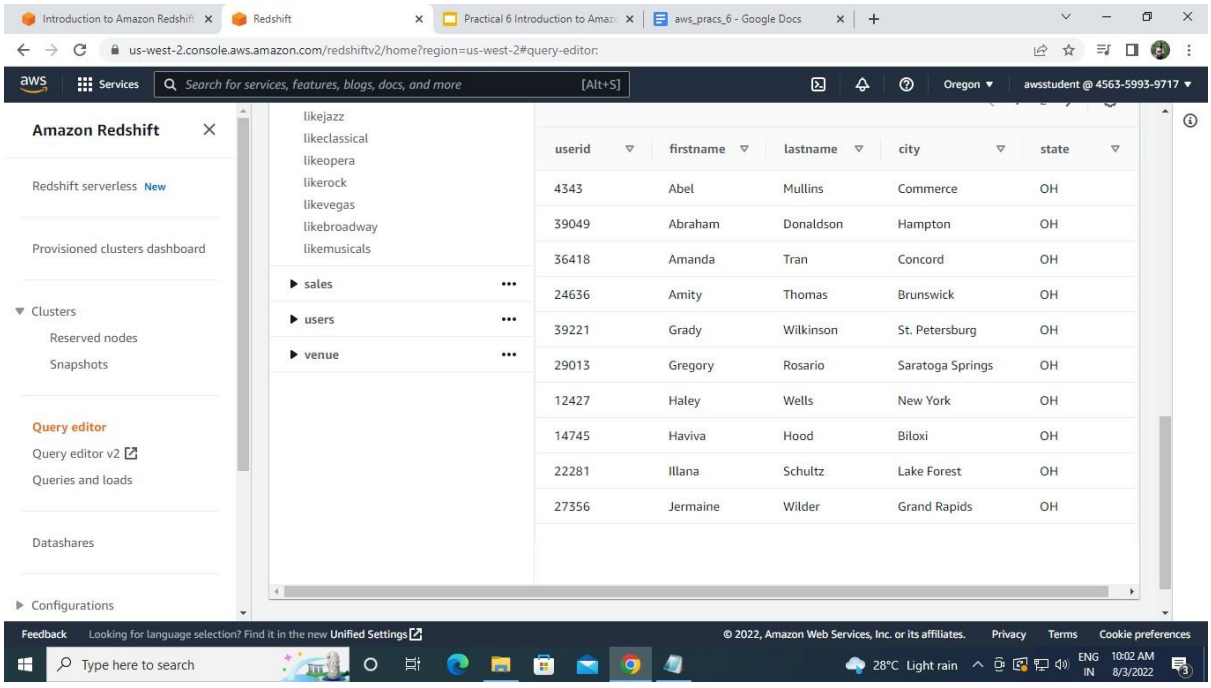


Task 4: Load Sample Data from Amazon S3

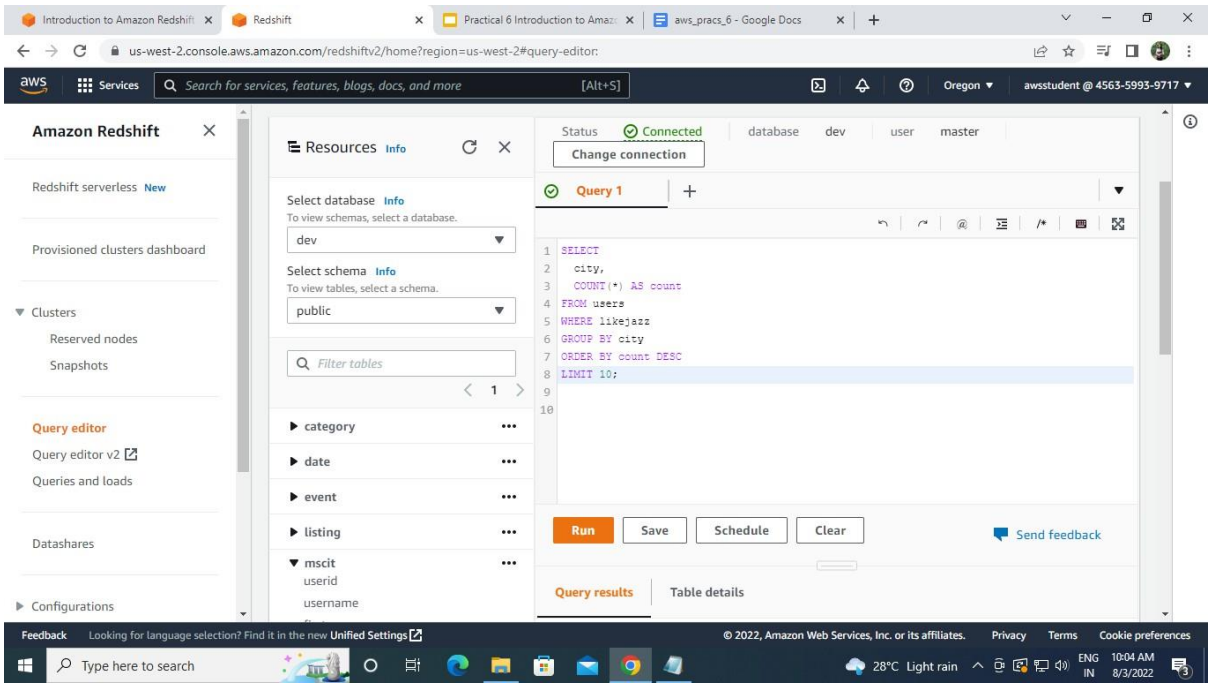


Amazon Redshift can import data from Amazon S3. Various file formats are supported, fixed-length fields, comma-separated values (CSV) and custom delimiters. The data for this lab is pipe-separated (1).

19. Delete the existing query, then paste this SQL command into the Query 1 window.



Task 5: Query Data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us-west-2.console.aws.amazon.com/redshiftv2/home?region=us-west-2#query-editor:
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Configurations
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To view schemas, select a database.
dev
Select schema Info
To view tables, select a schema.
public
Filter tables
category
date
event
listing
mscit
userid
username
Status Connected
database dev
user master
Change connection
Query 1
SELECT
city,
COUNT(*) AS count
FROM users
WHERE likejazz
GROUP BY city
ORDER BY count DESC
LIMIT 10;
Run
Save
Schedule
Clear
Send feedback
Query results
Table details
Feedback
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Cookie preferences
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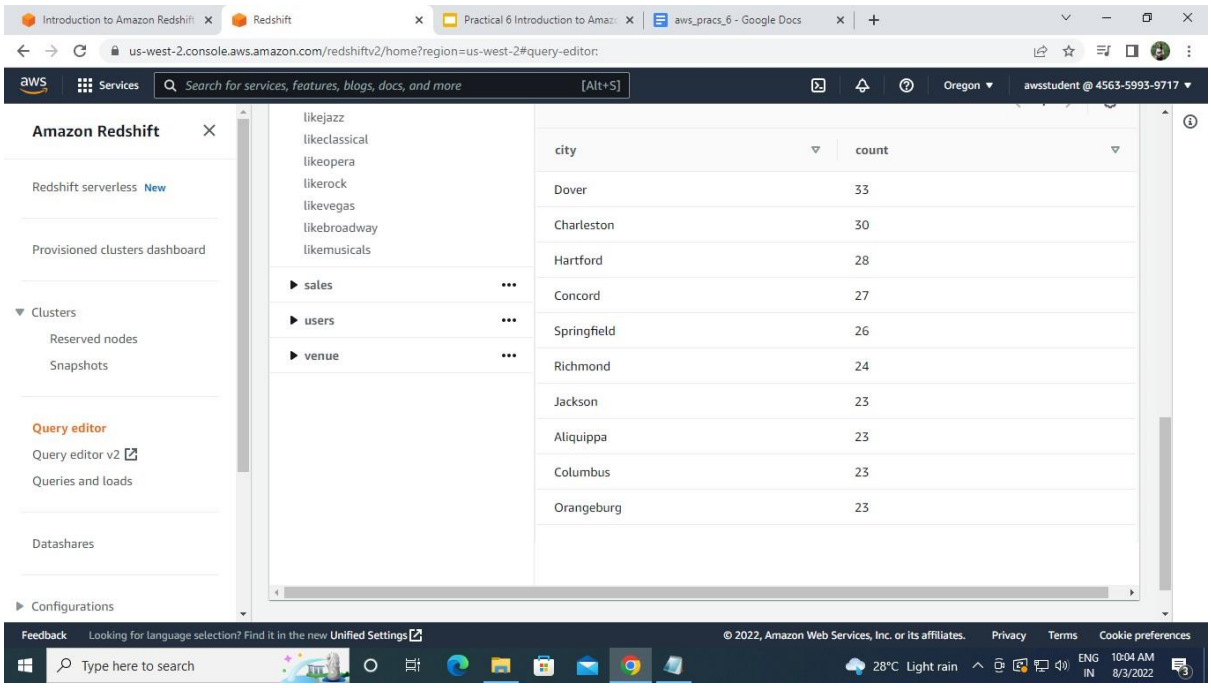
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likeclassical
likeopera
likerock
likevegas
likebroadway
likemusicals
sales
users
venue
city
count
Dover 33
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Hartford 28
Concord 27
Springfield 26
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Jackson 23
Aliquippa 23
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Orangeburg 23
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