Q1.

Create an EC2 Instance in the us-east-1 region with the following requirements.

Give the Name tag of both EC2 instance & keypair as "ec2usecase1"(Name).

(4 Marks)

EC2 instance AMI should be "Amazon Linux 2".

(4 Marks)

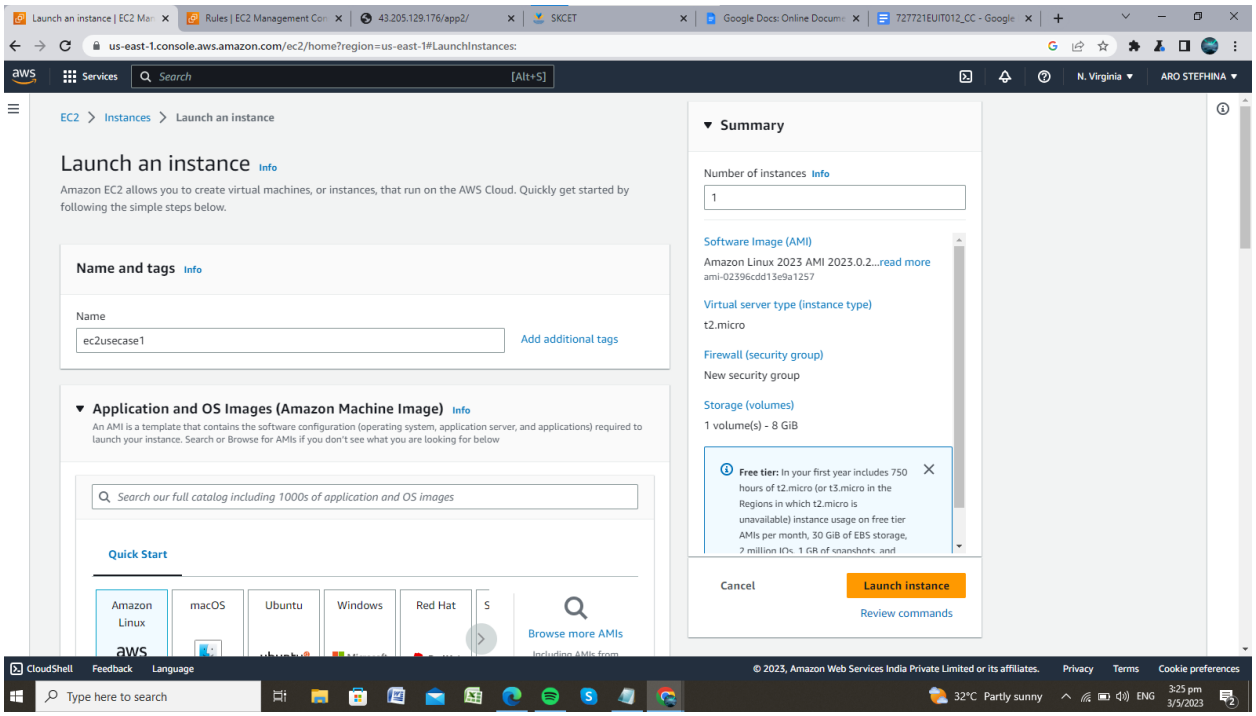
Allow SSH traffic for taking putty remote connection.

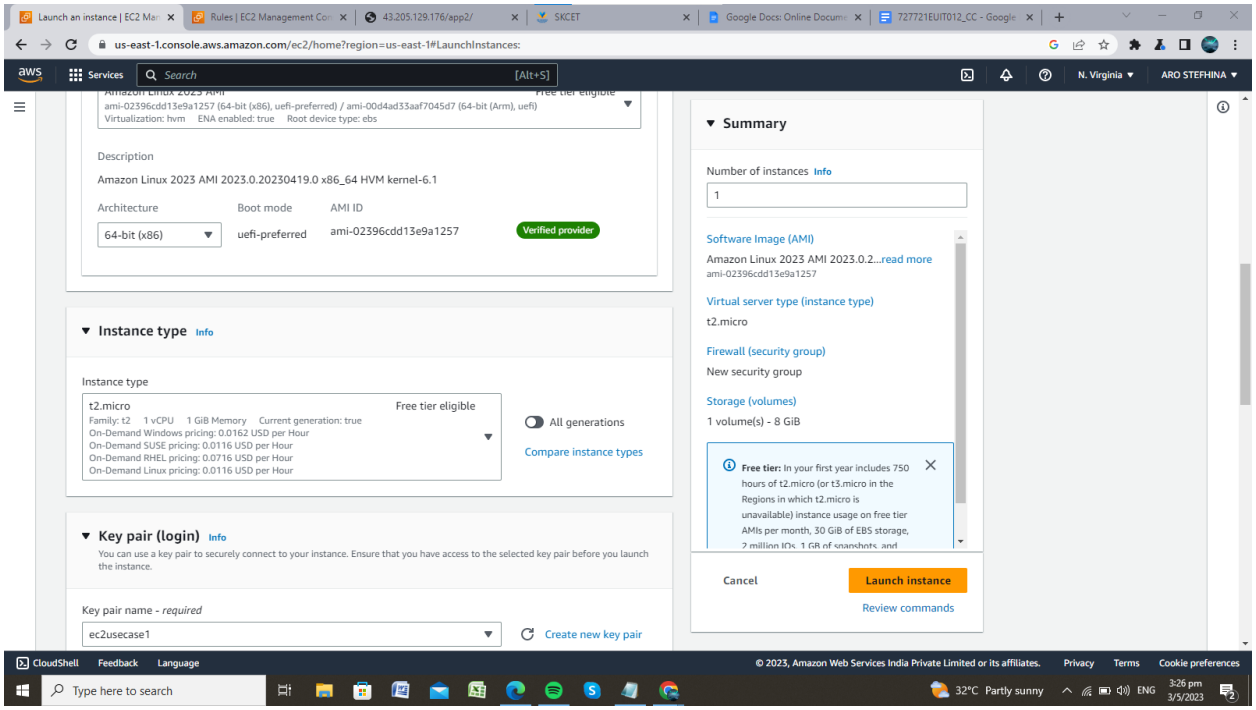
(4 Marks)

Allow HTTP traffic from the internet for reaching website requests.

(4 Marks)

1.




Launch an instance | EC2 Ma
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Services
Search
[Alt+S]
N. Virginia
ARO STEFHINA
Description
Amazon Linux 2023 AMI 2023.0.20230419.0 x86_64 HVM kernel-6.1
Architecture
Boot mode
AMI ID
64-bit (x86)
uefi-preferred
ami-02396cdd13e9a1257
Verified provider
Instance type Info
Instance type
t2.micro
Free tier eligible
All generations
Compare instance types
Key pair (login) Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.
Key pair name - required
ec2usecase1
Create new key pair
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-02396cdd13e9a1257
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance
Review commands
CloudShell
Feedback
Language
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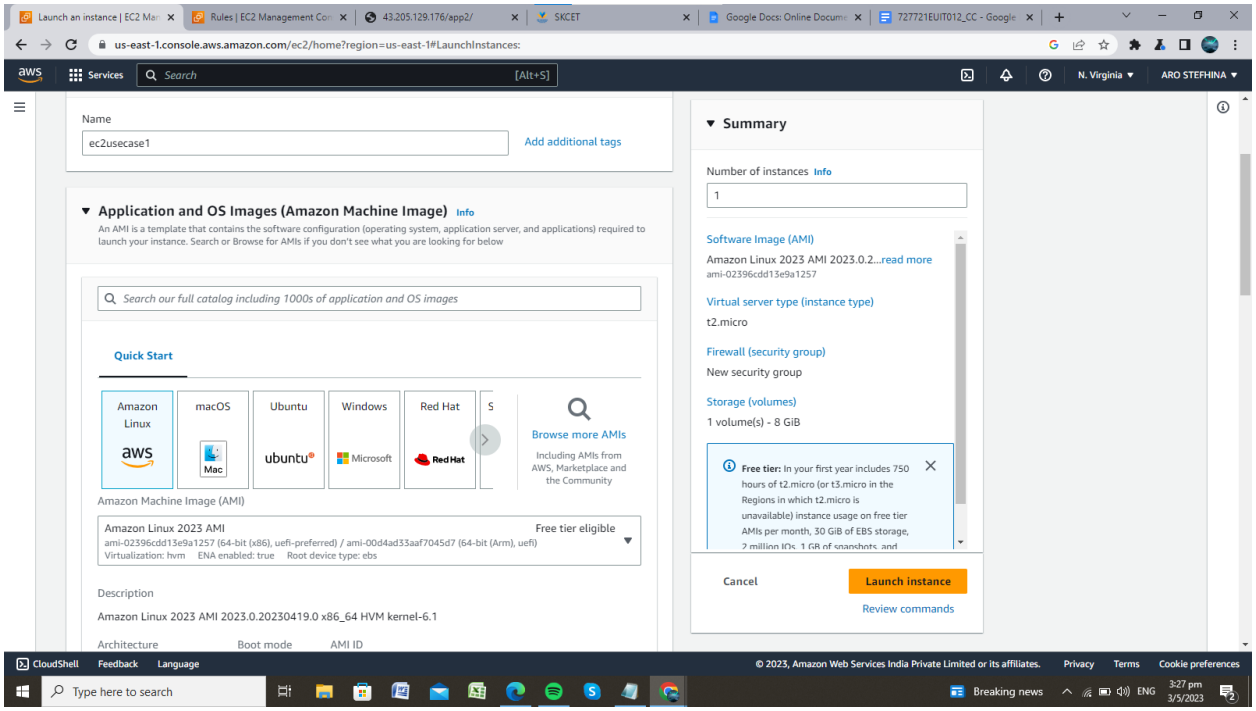
Privacy
Terms
Cookie preferences
Type here to search
32°C Partly sunny
ENG
3:26 pm
3/5/2023

2.


Launch an instance | EC2 Ma
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Services
Search
[Alt+S]
N. Virginia
ARO STEFHINA
Name
ec2usecase1
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below
Search our full catalog including 1000s of application and OS images
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Amazon Linux 2023 AMI
Free tier eligible
ami-02396cdd13e9a1257 (64-bit (x86), uefi-preferred) / ami-00d4ad33aaf7045d7 (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs
Description
Amazon Linux 2023 AMI 2023.0.20230419.0 x86_64 HVM kernel-6.1
Architecture
Boot mode
AMI ID
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-02396cdd13e9a1257
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance
Review commands
CloudShell
Feedback
Language
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Breaking news
ENG
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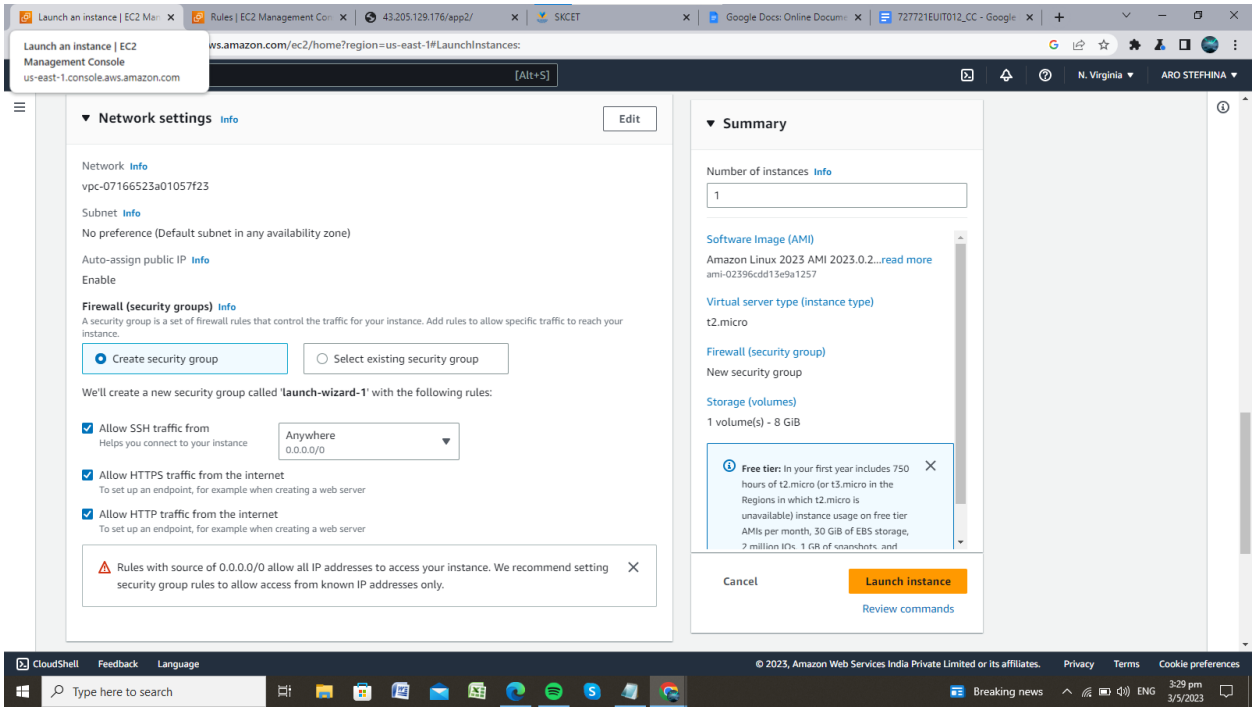
3 AND 4.


Launch an instance | EC2 Management Console
us-east-1.console.aws.amazon.com
Network settings Info
Edit
Network Info
vpc-07166523a01057f23
Subnet Info
No preference (Default subnet in any availability zone)
Auto-assign public IP Info
Enable
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
We'll create a new security group called 'launch-wizard-1' with the following rules:
Allow SSH traffic from
Helps you connect to your instance
Anywhere
0.0.0.0/0
Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server
Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.0.2...read more
ami-02396cdd13e9a1257
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 8 GiB
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage,
Cancel
Launch instance
Review commands
CloudShell
Feedback
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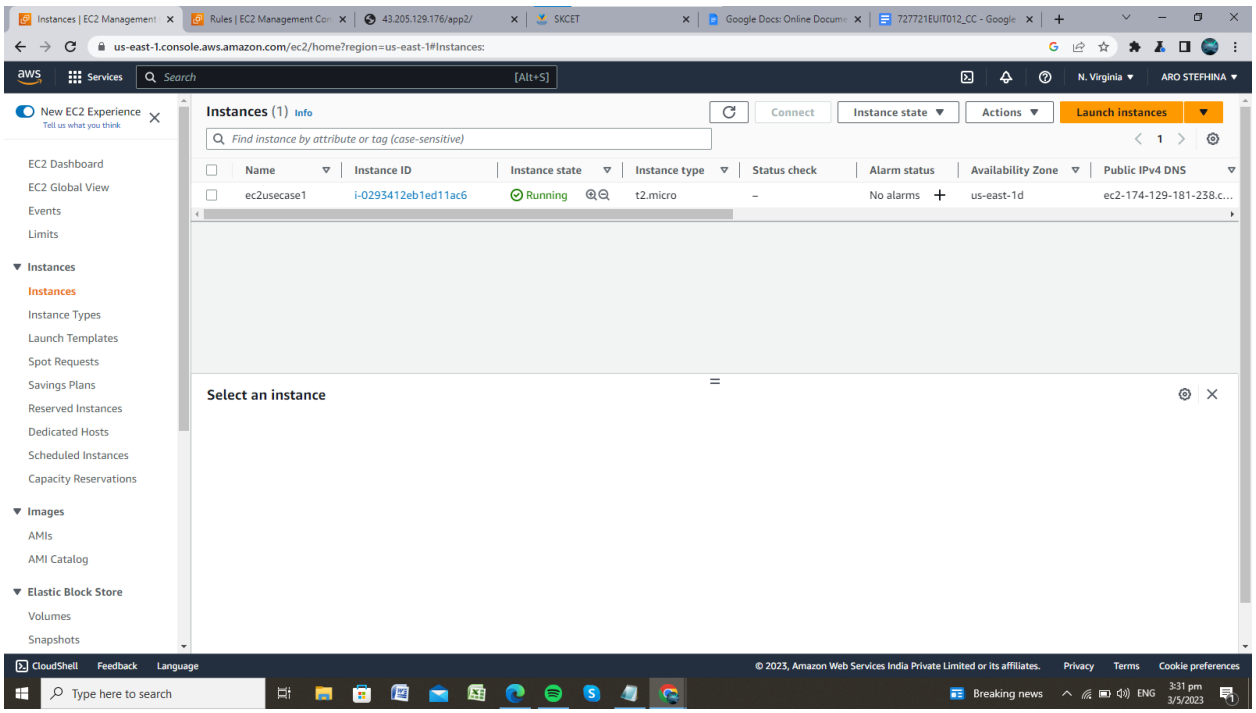
Instances | EC2 Management
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:
Services
Search
[Alt+S]
N. Virginia
ARO STEFHINA
New EC2 Experience
Tell us what you think
EC2 Dashboard
EC2 Global View
Events
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Instances (1) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
ec2usecase1
i-0293412eb1ed11ac6
Running
t2.micro
No alarms
us-east-1d
ec2-174-129-181-238.c...
Select an instance
CloudShell
Feedback
Language
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Q2.

Create an IAM group called 'Network-L1-Team' with 'AmazonVPCReadOnlyAccess' and 'AWSNetworkManagerReadOnlyAccess' policies, then add an IAM user called 'Network-L1-User1' to the group.

The name of the IAM group should be 'Network-L1-Team'.

(4 Marks)

The name of the IAM user should be 'Network-L1-User1'.

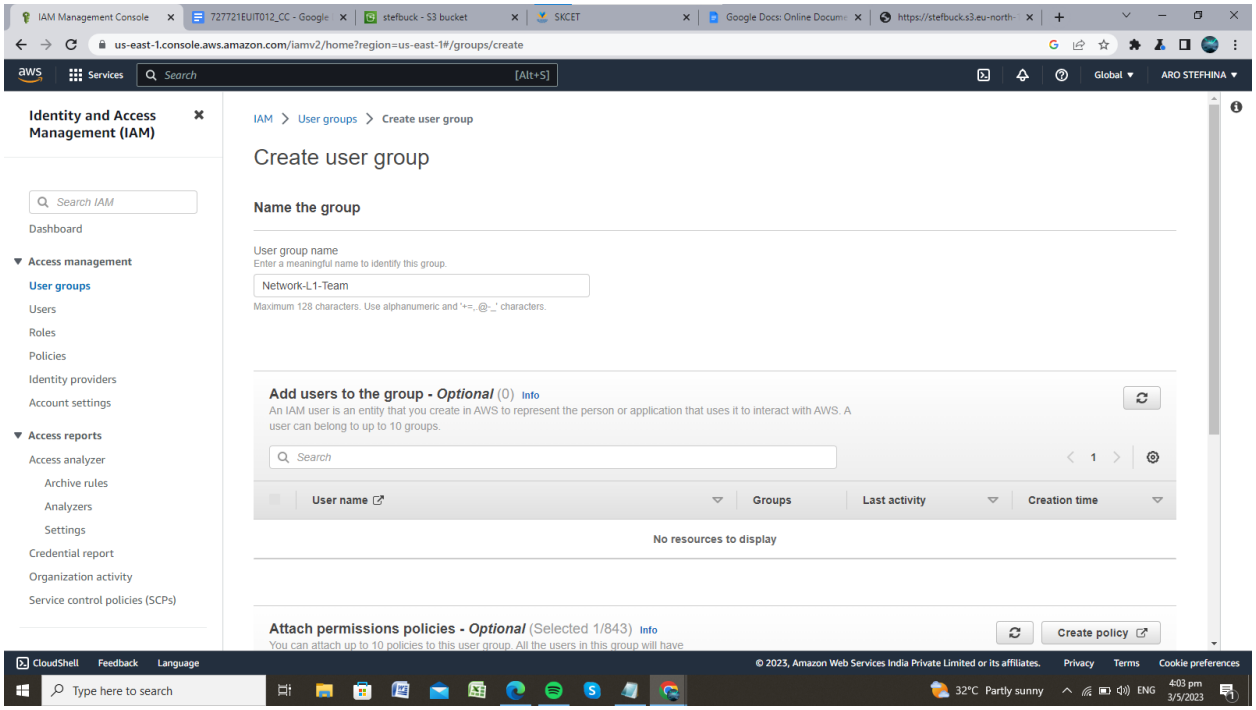
(4 Marks)

The 'AmazonVPCReadOnlyAccess' policy should be attached.

(4 Marks)

The 'AWSNetworkManagerReadOnlyAccess' policy should be attached.

(5 Marks)


IAM Management Console
727721EUIT012_CC - Google
stefbuck - S3 bucket
SKCET
Google Docs: Online Docum
https://stefbuck.s3.eu-north-
us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups/create
Services
Search
[Alt+S]
Global
ARO STEFHINA
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
Service control policies (SCPs)
IAM > User groups > Create user group
Create user group
Name the group
User group name
Enter a meaningful name to identify this group.
Network-L1-Team
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.
Add users to the group - Optional (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. A user can belong to up to 10 groups.
Search
User name
Groups
Last activity
Creation time
No resources to display
Attach permissions policies - Optional (Selected 1/843) Info
You can attach up to 10 policies to this user group. All the users in this group will have
Create policy
CloudShell
Feedback
Language
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Cookie preferences
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ENG
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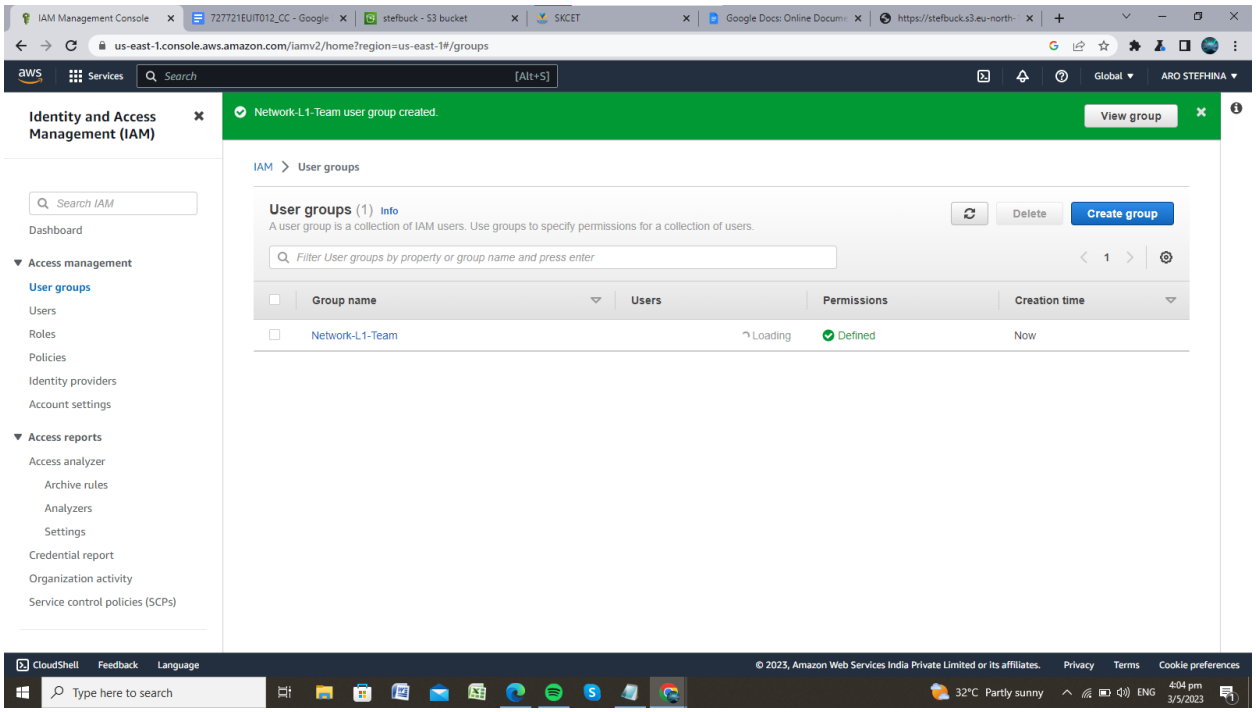
IAM Management Console
727721EUIT012_CC - Google
stefbuck - S3 bucket
SKCET
Google Docs: Online Docum
https://stefbuck.s3.eu-north-
us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/groups
Services
Search
[Alt+S]
Global
ARO STEFHINA
Identity and Access Management (IAM)
Network-L1-Team user group created.
View group
IAM > User groups
User groups (1) 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
Network-L1-Team
Loading
Defined
Now
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
Service control policies (SCPs)
CloudShell
Feedback
Language
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Cookie preferences
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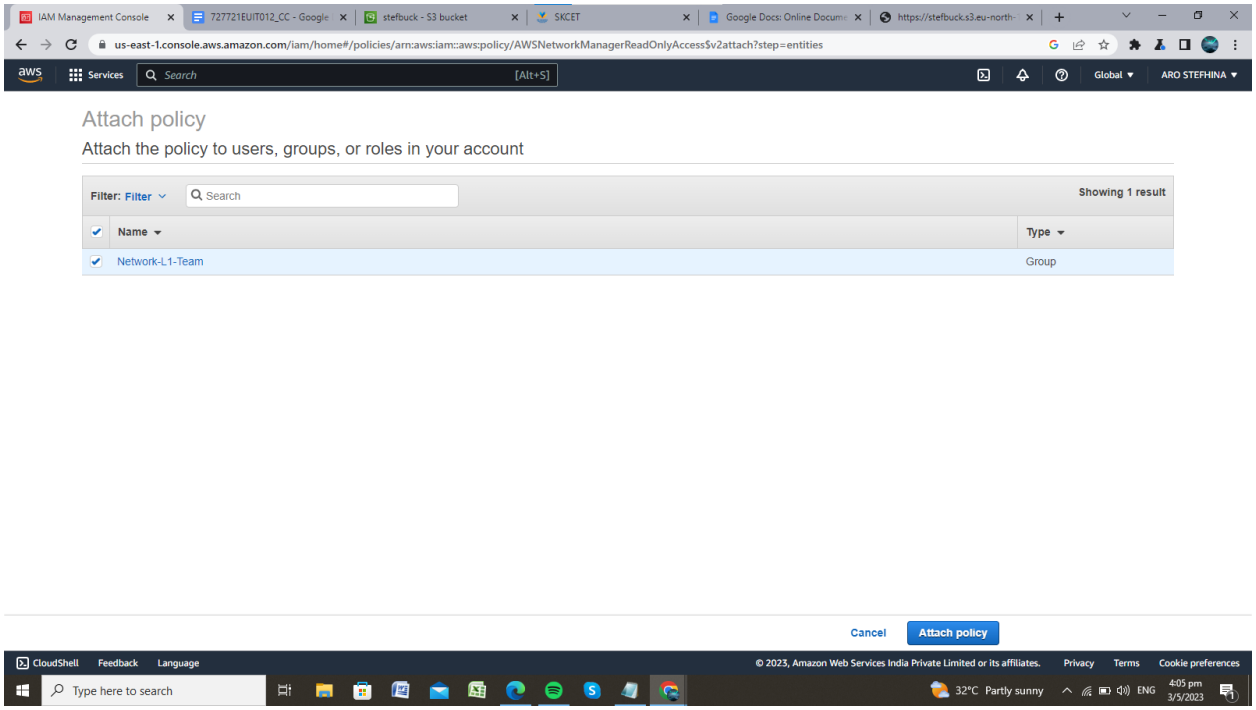
IAM Management Console
727721EUIT012_CC - Google
stefbuck - S3 bucket
SKCET
Google Docs: Online Docum
https://stefbuck.s3.eu-north-
us-east-1.console.aws.amazon.com/iam/home#/policies/arn:aws:iam::aws:policy/AWSNetworkManagerReadOnlyAccess$v2attach?step=entities
aws
Services
Search
[Alt+S]
Global
ARO STEFHINA
Attach policy
Attach the policy to users, groups, or roles in your account
Filter: Filter
Search
Showing 1 result
Name
Type
Network-L1-Team
Group
Cancel
Attach policy
CloudShell
Feedback
Language
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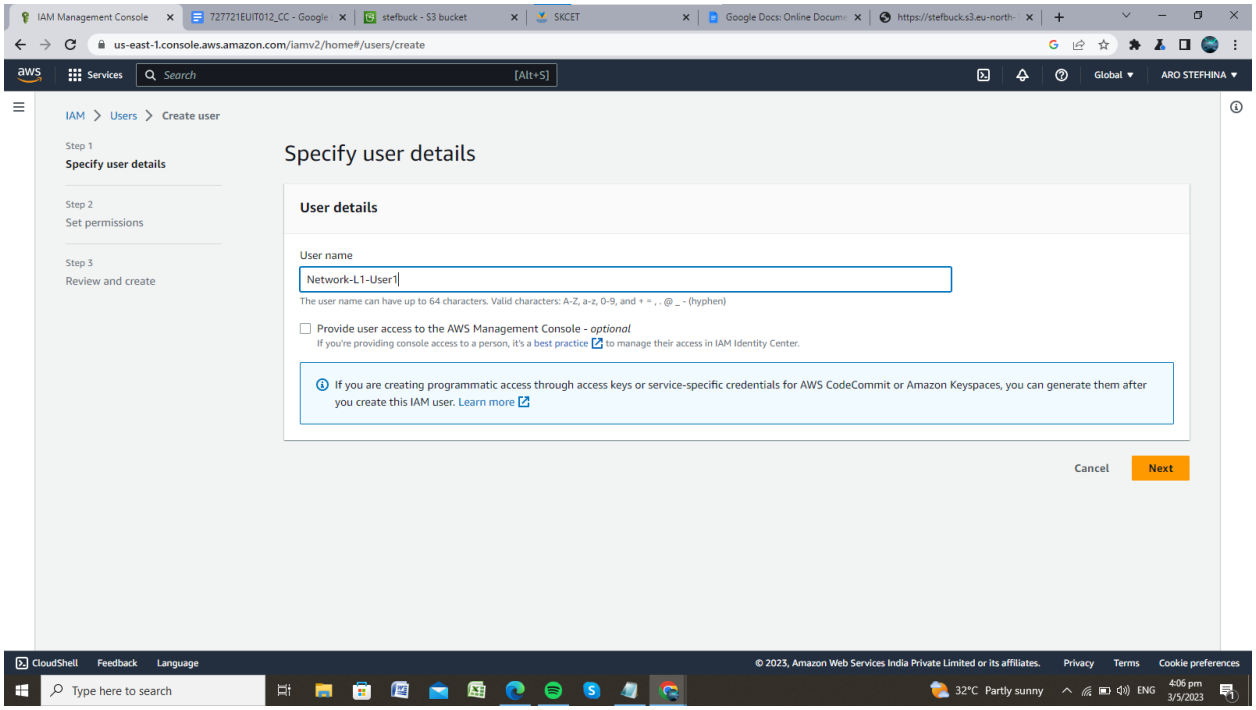
IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home#/users/create
Services
Search
[Alt+S]
Global
ARO STEFHINA
IAM > Users > Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Specify user details
User details
User name
Network-L1-User1
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)
Provide user access to the AWS Management Console - optional
If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.
If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. Learn more
Cancel
Next
CloudShell
Feedback
Language
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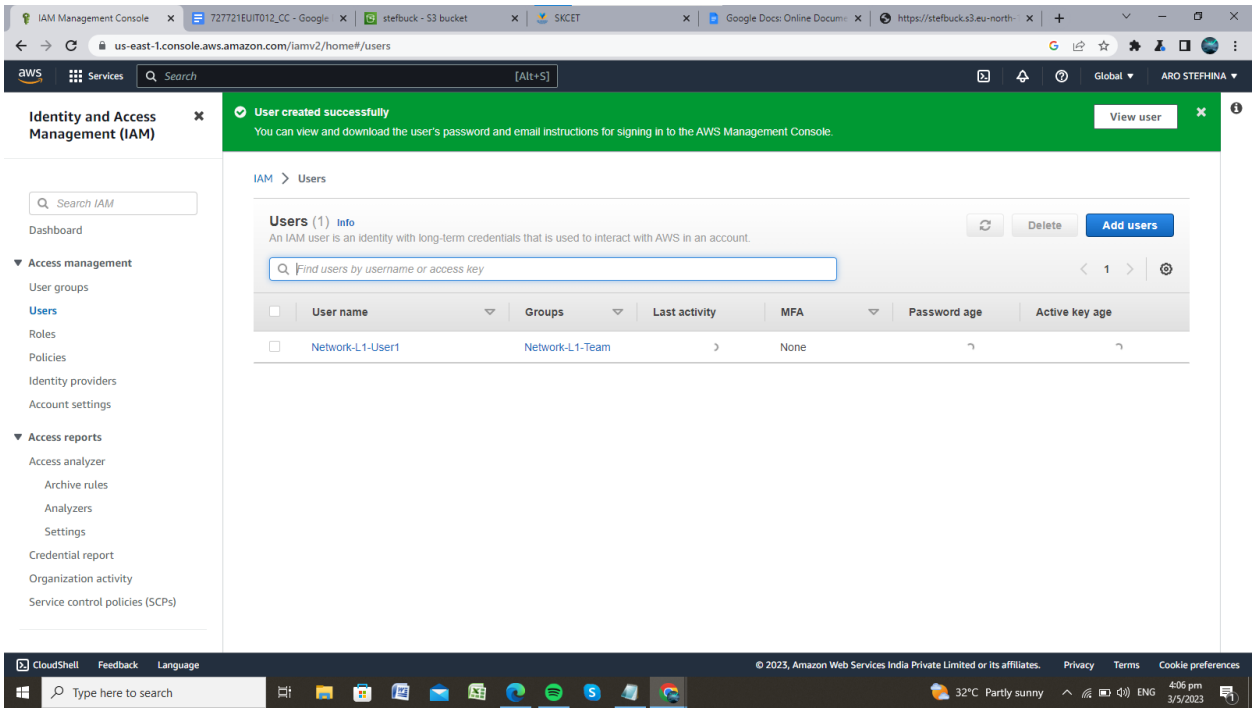
IAM Management Console
us-east-1.console.aws.amazon.com/iamv2/home#/users
Services
Search
[Alt+S]
Global
ARO STEFHINA
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
User created successfully
You can view and download the user's password and email instructions for signing in to the AWS Management Console.
View user
IAM > Users
Users (1) Info
An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.
Delete
Add users
Find users by username or access key
User name
Groups
Last activity
MFA
Password age
Active key age
Network-L1-User1
Network-L1-Team
None
CloudShell
Feedback
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Q3.

Create a S3 bucket for the following requirements

Create a new S3 bucket in the region of "Stockholm".

(4 Marks)

Make the bucket accessible to everyone(publicly) via Bucket ACL.

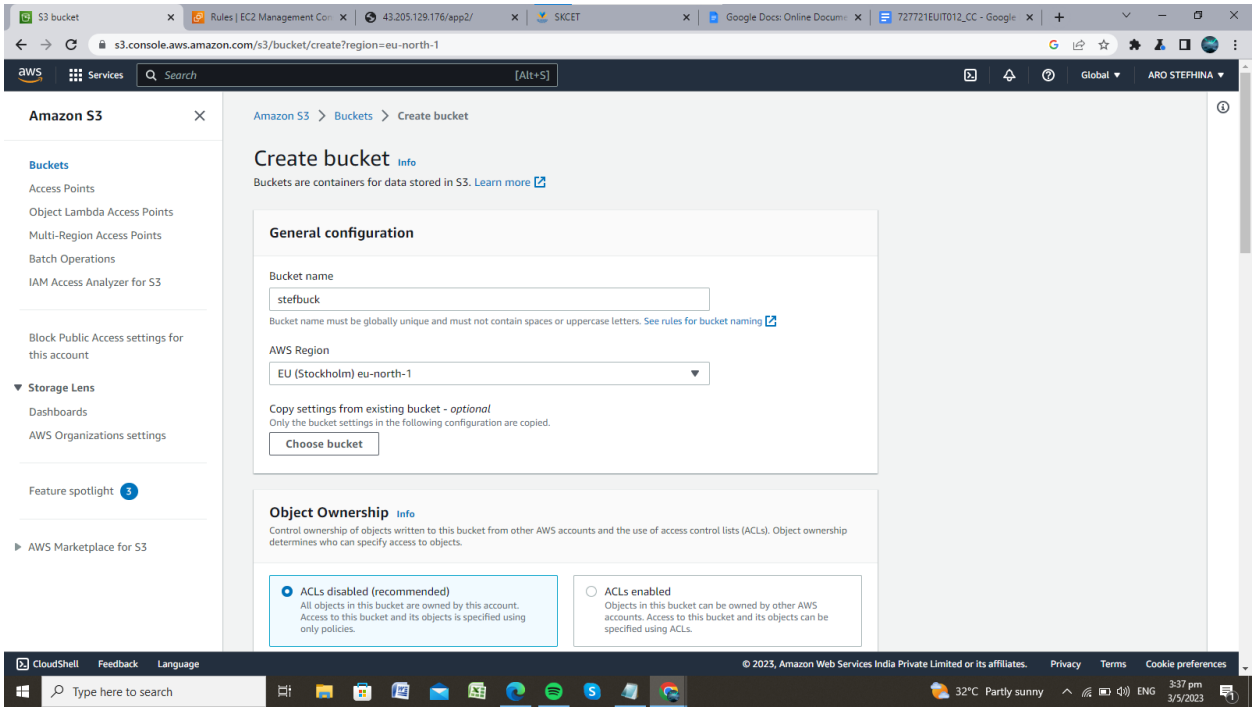
(4 Marks)

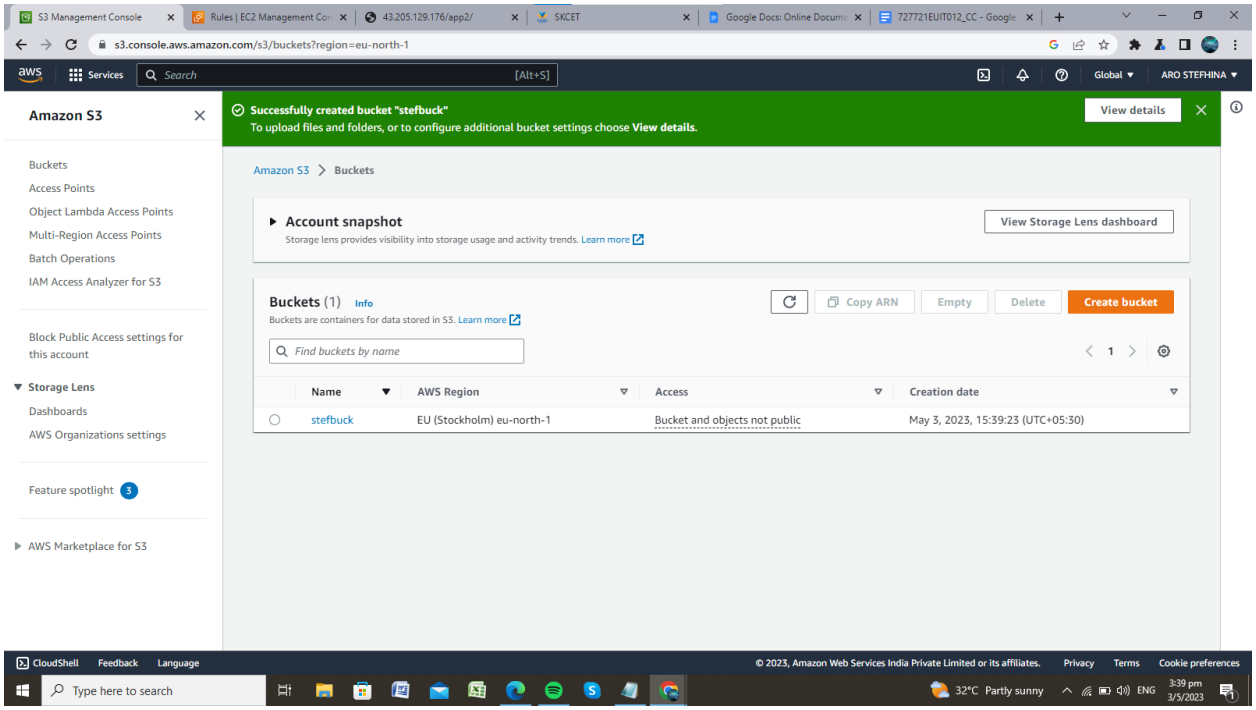
Upload a text file in the name of 'accounts.txt'.

(5 Marks)

Make the object 'accounts.txt' file accessible to everyone(publicly).

(4 Marks)




S3 Management Console
s3.console.aws.amazon.com/s3/buckets?region=eu-north-1
Services
Search
[Alt+S]
Global
ARO STEFHINA
Amazon S3
Successfully created bucket "stefbuck"
To upload files and folders, or to configure additional bucket settings choose View details.
View details
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
Amazon S3 > Buckets
Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more
View Storage Lens dashboard
Buckets (1) 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
stefbuck
EU (Stockholm) eu-north-1
Bucket and objects not public
May 3, 2023, 15:39:23 (UTC+05:30)
CloudShell
Feedback
Language
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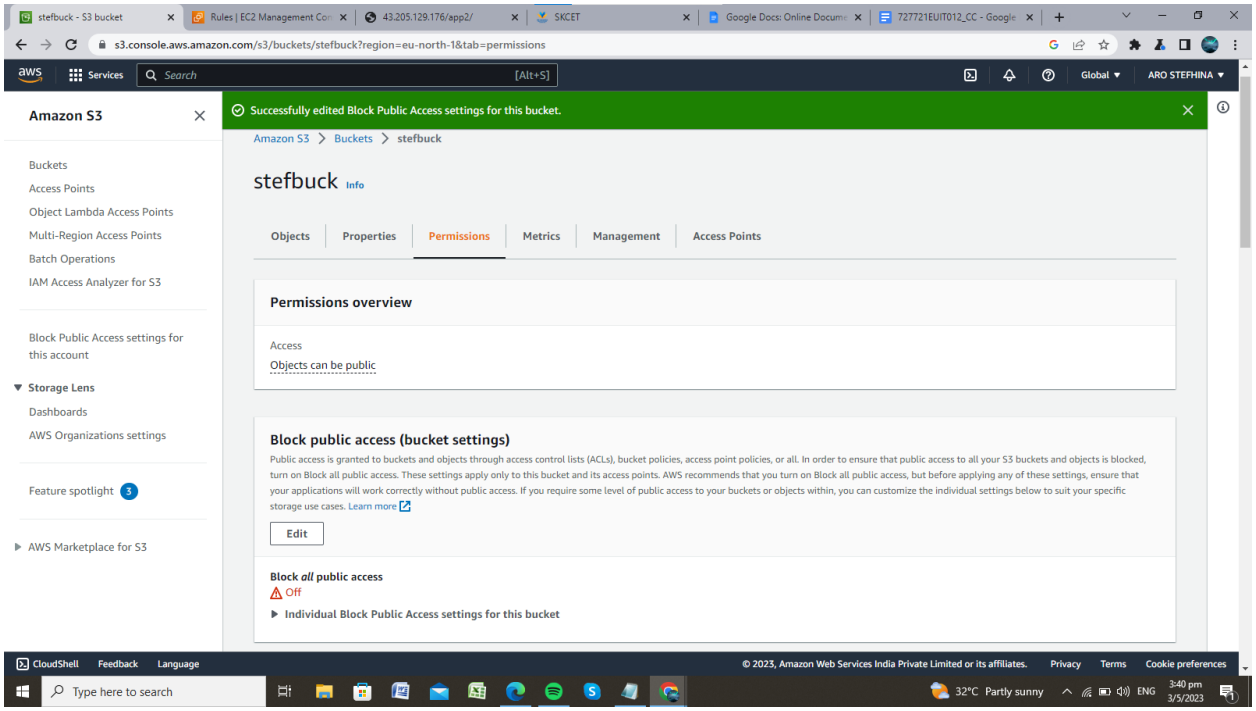
32°C Partly sunny
ENG
3:39 pm
3/5/2023


stefbuck - S3 bucket
s3.console.aws.amazon.com/s3/buckets/stefbuck?region=eu-north-1&tab=permissions
Services
Search
[Alt+S]
Global
ARO STEFHINA
Amazon S3
Successfully edited Block Public Access settings for this bucket.
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
Amazon S3 > Buckets > stefbuck
stefbuck 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 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
Edit
Block all public access
Off
Individual Block Public Access settings for this bucket
CloudShell
Feedback
Language
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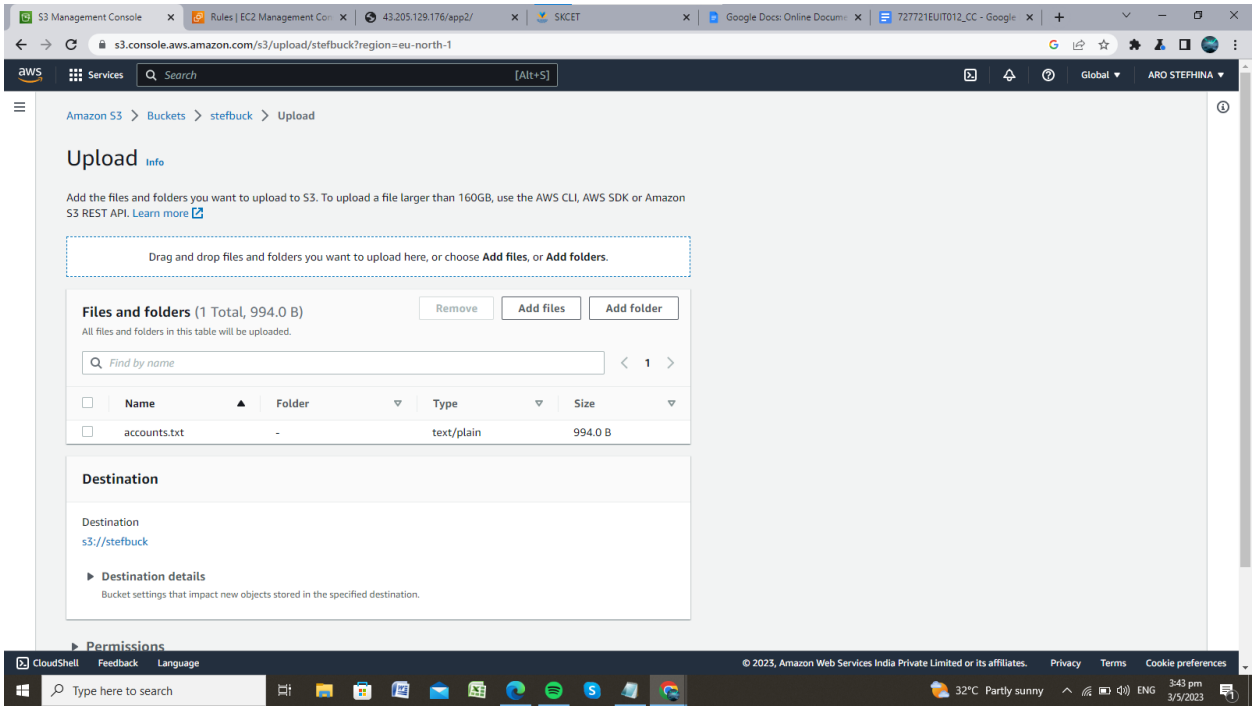
S3 Management Console
s3.console.aws.amazon.com/s3/upload/stefbuck?region=eu-north-1
Amazon S3 > Buckets > stefbuck > Upload
Upload Info
Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more
Drag and drop files and folders you want to upload here, or choose Add files, or Add folders.
Files and folders (1 Total, 994.0 B)
All files and folders in this table will be uploaded.
Remove
Add files
Add folder
Find by name
Name
Folder
Type
Size
accounts.txt
-
text/plain
994.0 B
Destination
Destination
s3://stefbuck
Destination details
Bucket settings that impact new objects stored in the specified destination.
Permissions
CloudShell
Feedback
Language
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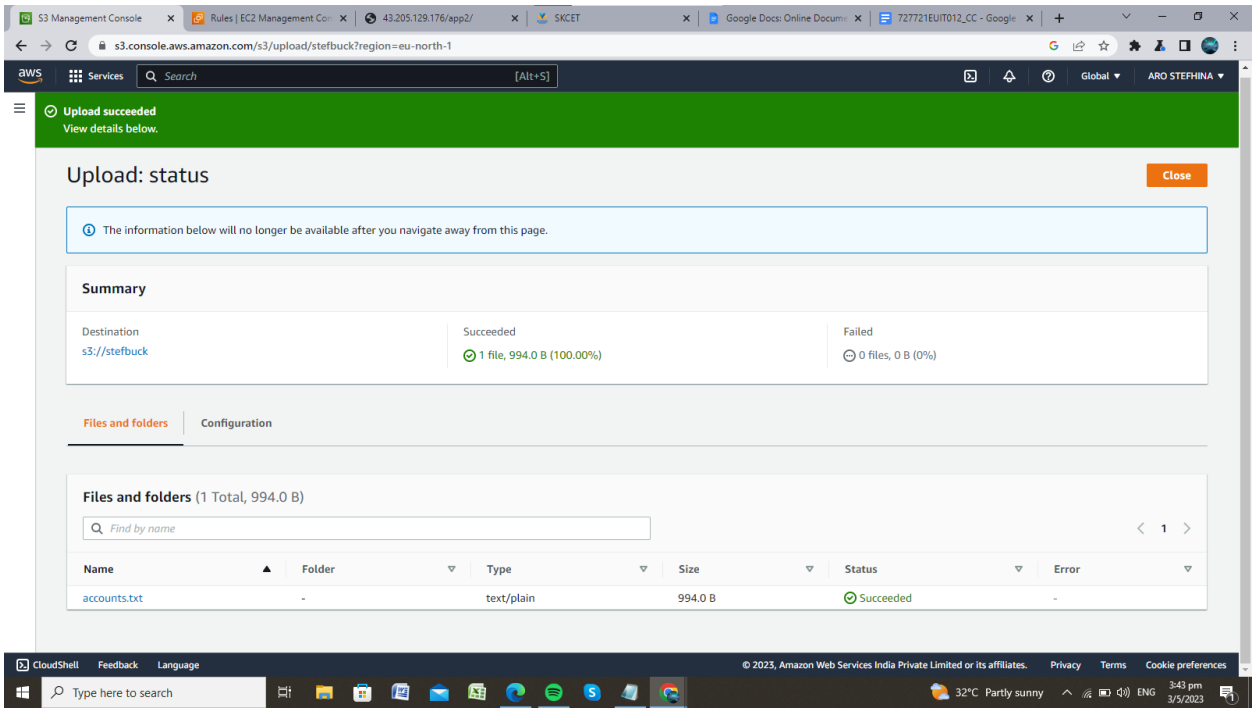
S3 Management Console
s3.console.aws.amazon.com/s3/upload/stefbuck?region=eu-north-1
Upload succeeded
View details below.
Upload: status
Close
The information below will no longer be available after you navigate away from this page.
Summary
Destination
s3://stefbuck
Succeeded
1 file, 994.0 B (100.00%)
Failed
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (1 Total, 994.0 B)
Find by name
Name
Folder
Type
Size
Status
Error
accounts.txt
-
text/plain
994.0 B
Succeeded
-
CloudShell
Feedback
Language
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Cookie preferences
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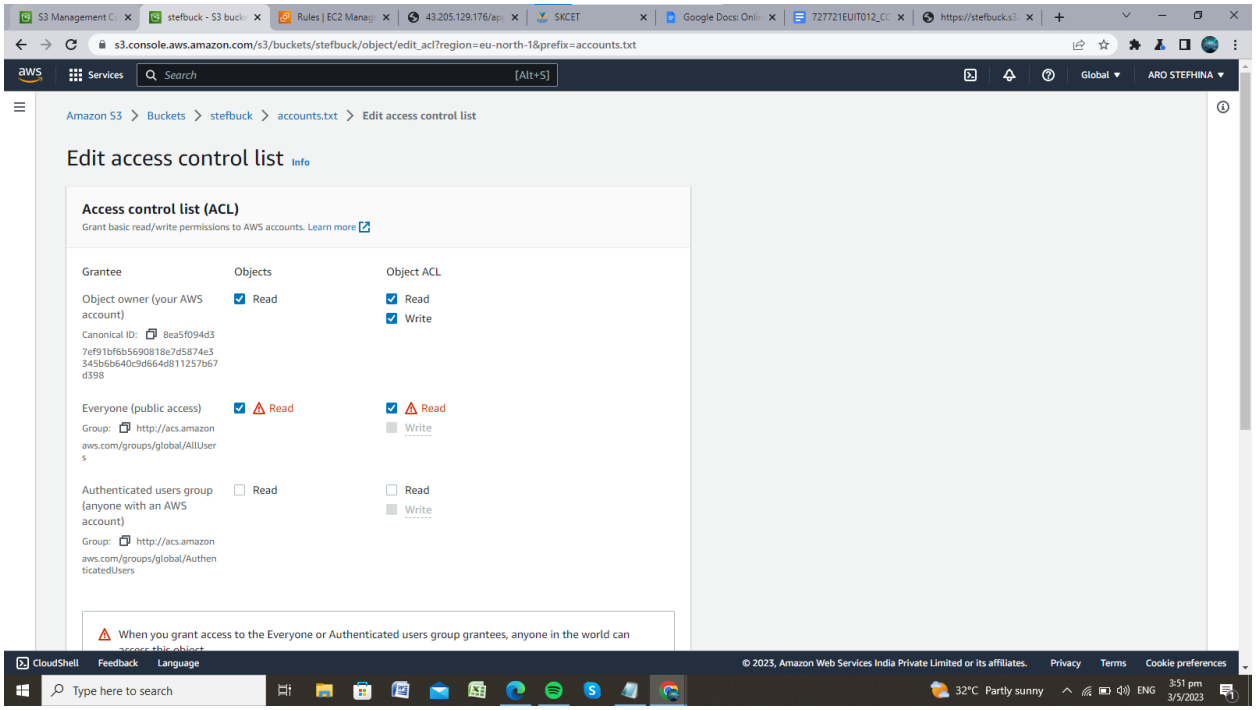
s3.console.aws.amazon.com/s3/buckets/stefbuck/object/edit_acl?region=eu-north-1&prefix=accounts.txt
Amazon S3 > Buckets > stefbuck > accounts.txt > Edit access control list
Edit access control list Info
Access control list (ACL)
Grant basic read/write permissions to AWS accounts. Learn more
Grantee
Objects
Object ACL
Object owner (your AWS account)
Canonical ID: 8ea5f094d37ef91bf6b5690818e7d5874e3345b6b640c9d664d811257b67d398
Read
Read
Write
Everyone (public access)
Group: http://acs.amazonaws.com/groups/global/AllUsers
Read
Read
Write
Authenticated users group (anyone with an AWS account)
Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers
Read
Read
Write
When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can
CloudShell
Feedback
Language
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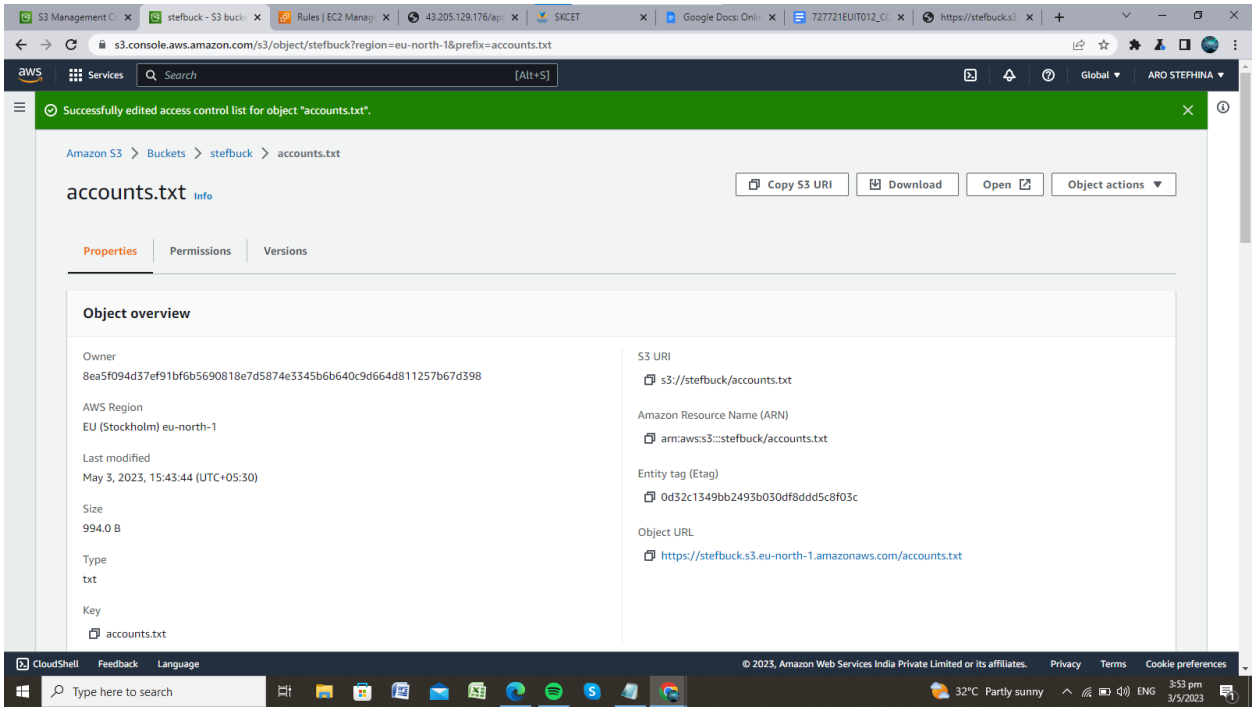
Type here to search
32°C Partly sunny
ENG
3:51 pm
3/5/2023


s3.console.aws.amazon.com/s3/object/stefbuck?region=eu-north-1&prefix=accounts.txt
Successfully edited access control list for object "accounts.txt".
Amazon S3 > Buckets > stefbuck > accounts.txt
accounts.txt Info
Copy S3 URI
Download
Open
Object actions
Properties
Permissions
Versions
Object overview
Owner
8ea5f094d37ef91bf6b5690818e7d5874e3345b6b640c9d664d811257b67d398
AWS Region
EU (Stockholm) eu-north-1
Last modified
May 3, 2023, 15:43:44 (UTC+05:30)
Size
994.0 B
Type
txt
Key
accounts.txt
S3 URI
s3://stefbuck/accounts.txt
Amazon Resource Name (ARN)
arn:aws:s3:::stefbuck/accounts.txt
Entity tag (Etag)
0d32c1349bb2493b030df8ddd5c8f03c
Object URL
https://stefbuck.s3.eu-north-1.amazonaws.com/accounts.txt
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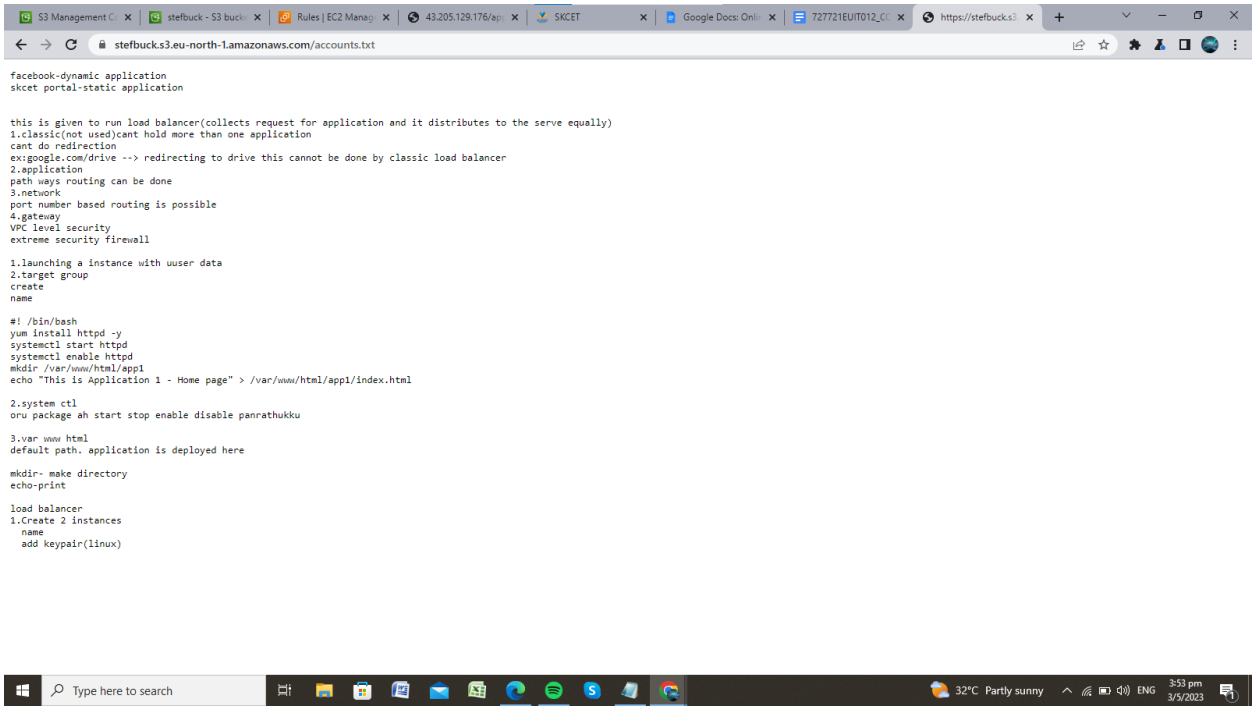
S3 Management C
stefbuck - S3 buck
Rules | EC2 Manag
43.205.129.176/ap
SKCET
Google Docs: Onli
727721EUIT012_C
https://stefbuck.s3
stefbuck.s3.eu-north-1.amazonaws.com/accounts.txt
facebook-dynamic application
skcet portal-static application
this is given to run load balancer(collects request for application and it distributes to the serve equally)
1.classic(not used)cant hold more than one application
cant do redirection
ex:google.com/drive --> redirecting to drive this cannot be done by classic load balancer
2.application
path ways routing can be done
3.network
port number based routing is possible
4.gateway
VPC level security
extreme security firewall
1.launching a instance with uuser data
2.target group
create
name
#! /bin/bash
yum install httpd -y
systemctl start httpd
systemctl enable httpd
mkdir /var/www/html/app1
echo "This is Application 1 - Home page" > /var/www/html/app1/index.html
2.system ctl
oru package ah start stop enable disable panrathukku
3.var www html
default path. application is deployed here
mkdir- make directory
echo-print
load balancer
1.Create 2 instances
name
add keypair(linux)
Type here to search
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