STATIC WEBSITE ON CLOUD

BY PRAKASH AGARWAL

Prerequisite

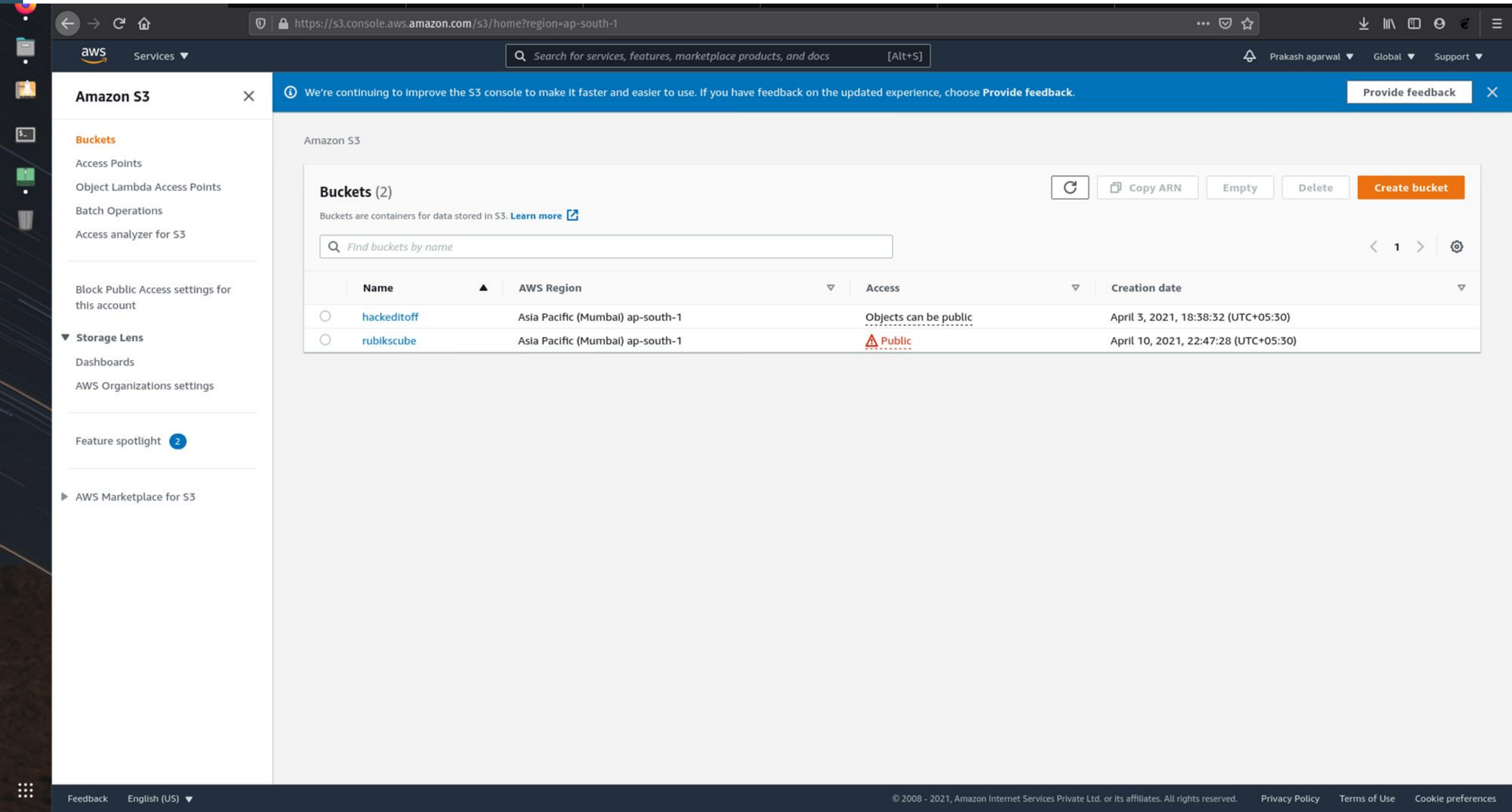
- Aws account
- Putty or linux terminal

- Lets download static web https://github.com/prakash02dec/rubick-cube-host-on-aws.git
- make your own static web which you want to be at server
- Then create S3 bucket (name should be related to your website , suggested) on aws and make it public from permission section
- Upload your website file containing html ,css and style in one zip folder to s3 bucket which you created
- Now create ec2 intances with amazon linux and security group as ssh , http and https as ip 0.0.0.0/0 (to make public).. DOWNLOAD THE KEY AS .pem if you using linux terminal on your machine or AS .ppk if you using putty to access instances
- For putty user , get public dns ip and then paste it in putty url then got to ssh section in left side and after this click auth and there upload the the key you downloaded in .ppk format

- for linux user go to directory where you downloaded the key in terminal , now copy the ssh url from intances ->connect-> ssh -> example
- To ensure that your software packages are up to date on your instance, use the following command to perform a quick software update: ***sudo yum update –y***
- Now use command ***sudo su*** to become root user.
- Now we are using apache server to host our website . So we need to install it . Following command is: ***yum install httpd -y***
- Now move to directory /var/www/html.. This is only directory where you can host the your website. Following command is: ***cd /var/www/html***
- Now we need web site file here so we need to bring it here via public link of our website zip file which we uploaded in s3 bucket Following command is: ***wget (link of file in s3 bucket)***
- Use unzip the file using simple command : ***unzip (file name)***
- Now move to unzip directory using command: ***cd (file name)***

- Now type to see name all files here because we are going to copy all these files to html directory that is currently one back directory because it is here where the website get host So use command: ***cp (all file name) ../.***
- Now move one directory back using command: ***cd ..***
- Now start the service using command: ***service httpd start***
- Now go to your ec2 on you aws console . Copy the public ip address of the ec2 and paste it in new tab . Here your WEBSITE WORKS .. THAT'S IP is your address to you website

Note : you get 750 hours of ec2 running is free … if you don't want your website don't run because you will be charged..


https://s3.console.aws.amazon.com/s3/home?region=ap-south-1
aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
Prakash agarwal
Global
Support
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 2
AWS Marketplace for 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
Amazon S3
Buckets (2)
Buckets are containers for data stored in S3. Learn more
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
1
Name
AWS Region
Access
Creation date
hackeditoff
Asia Pacific (Mumbai) ap-south-1
Objects can be public
April 3, 2021, 18:38:32 (UTC+05:30)
rubikscube
Asia Pacific (Mumbai) ap-south-1
Public
April 10, 2021, 22:47:28 (UTC+05:30)
Feedback
English (US)
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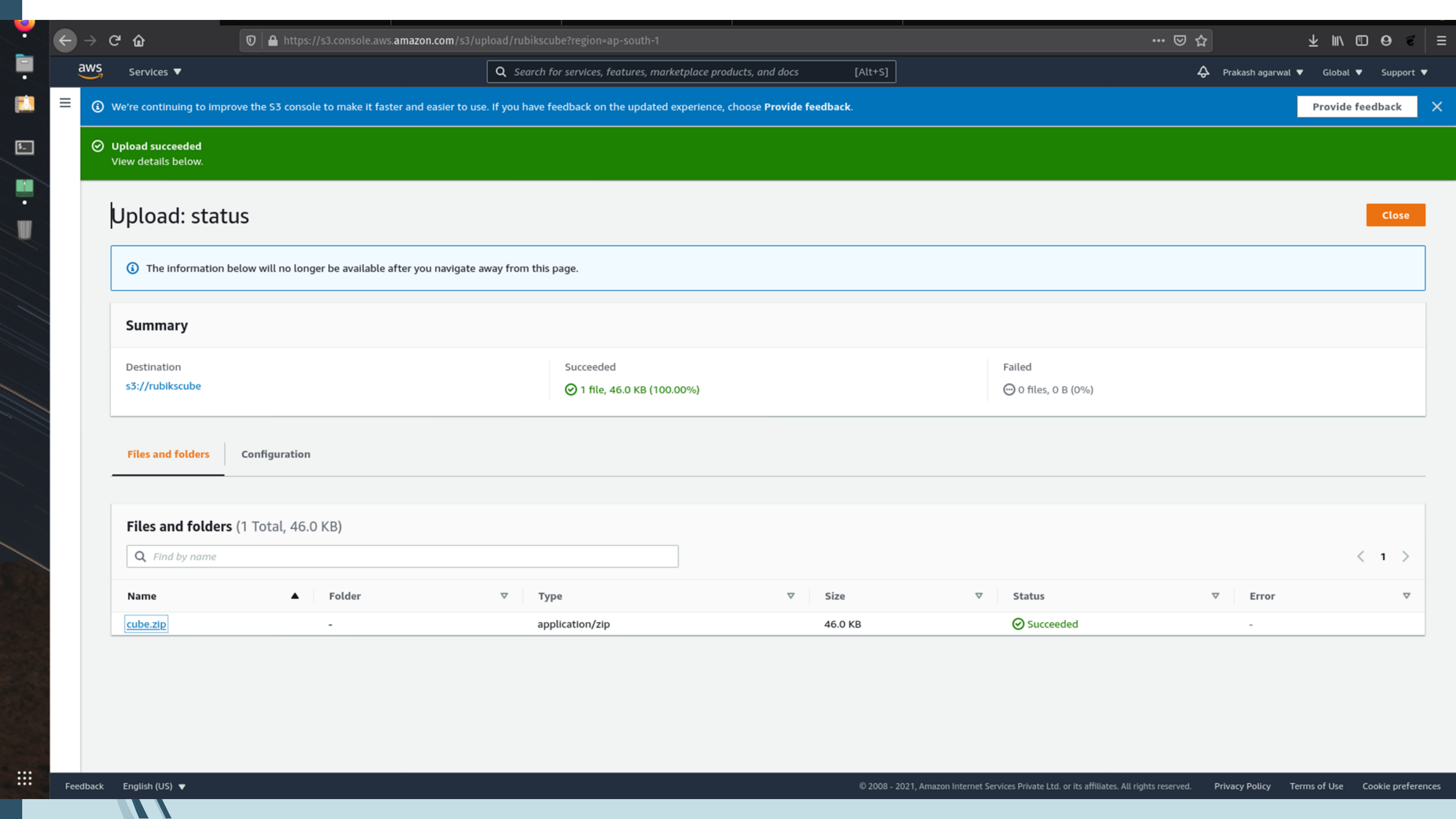
https://s3.console.aws.amazon.com/s3/upload/rubikscube?region=ap-south-1
aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
Prakash agarwal
Global
Support
We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.
Provide feedback
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://rubikscube
Succeeded
1 file, 46.0 KB (100.00%)
Failed
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (1 Total, 46.0 KB)
Find by name
1
Name
Folder
Type
Size
Status
Error
cube.zip
-
application/zip
46.0 KB
Succeeded
-
Feedback
English (US)
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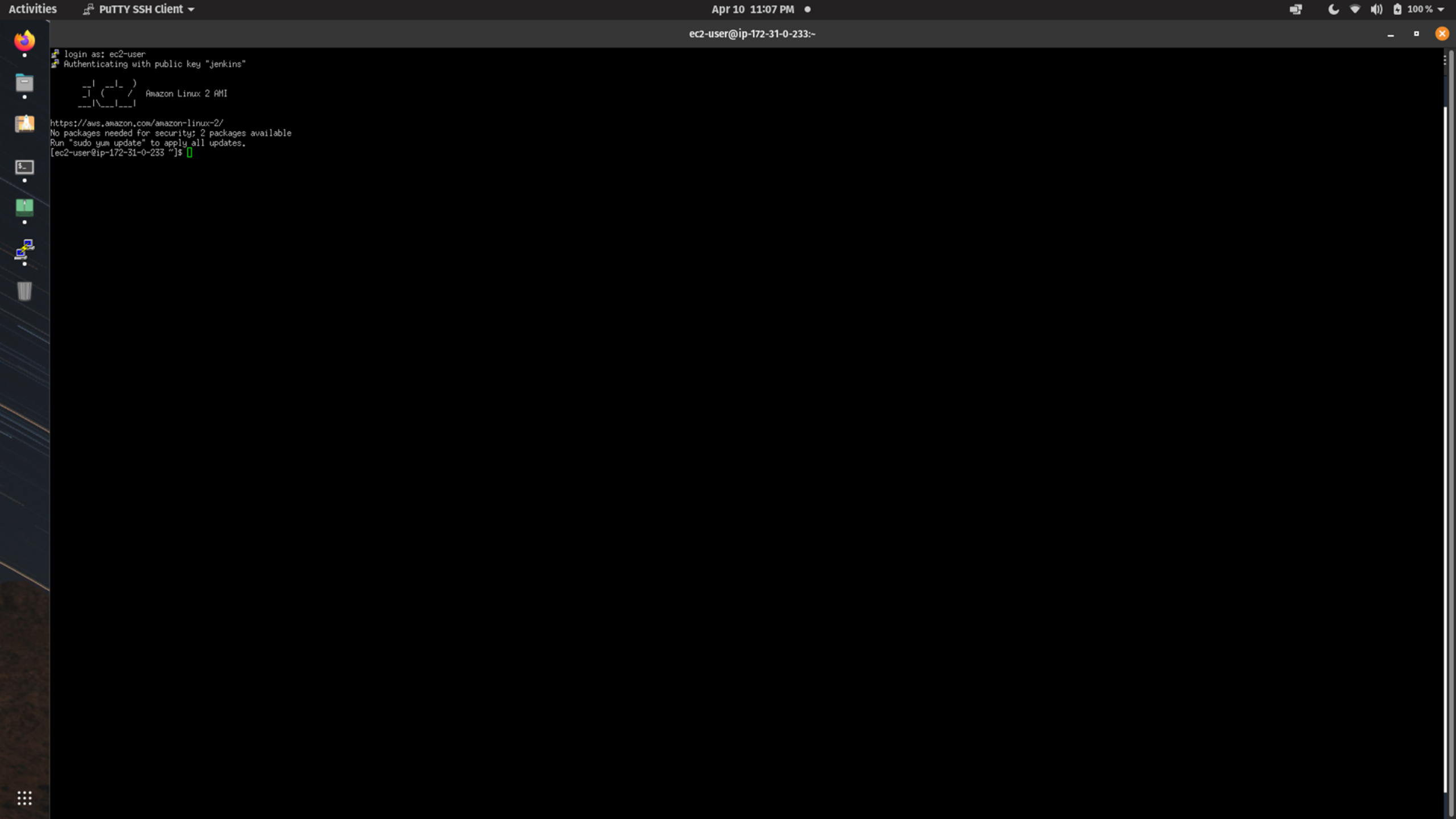

Activities
PuTTY SSH Client
Apr 10 11:07 PM
100 %
ec2-user@ip-172-31-0-233:~
login as: ec2-user
Authenticating with public key "jenkins"
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
No packages needed for security; 2 packages available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-0-233 ~]$

Connect to instance Info

Connect to your instance i-0e9ad7c22c47df3d6 (rubicks_cube) using any of these options

EC2 Instance Connect | Session Manager | SSH client

Instance ID

i-0e9ad7c22c47df3d6 (rubicks_cube)

Public IP address

13.232.247.156

User name

ec2-user

Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel Connect

Activities Terminal Apr 10 11:21 PM 100 %

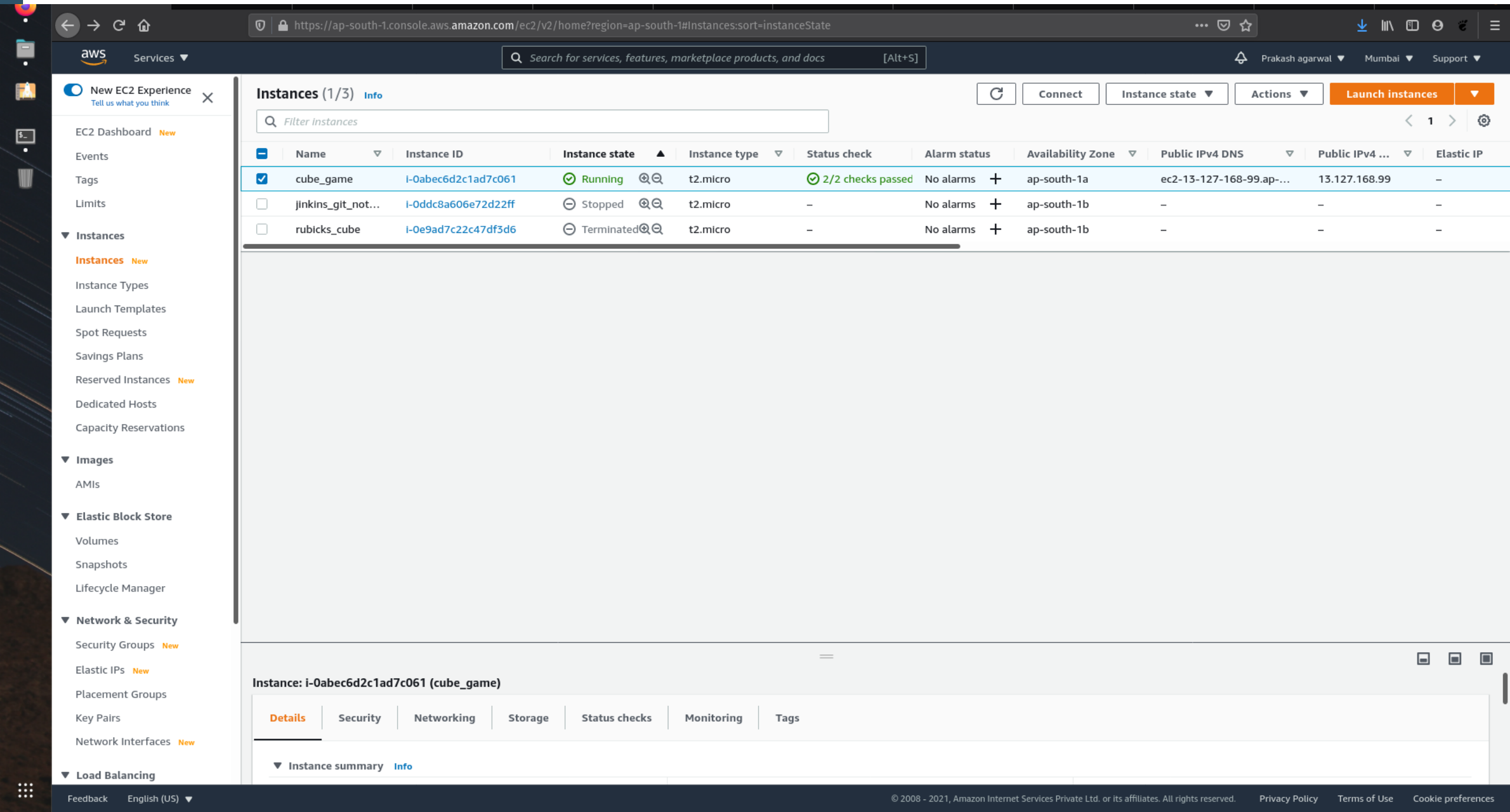
root@ip-172-31-33-78:/home/ec2-user

```
(6/11): python3-lockfile-0.11.0-17.amzn2.0.2.noarch.rpm                     |  30 kB  00:00:00
(7/11): amazon-ssm-agent-3.0.529.0-1.amzn2.x86_64.rpm                       |  25 MB  00:00:00
(8/11): python3-pip-9.0.3-1.amzn2.0.2.noarch.rpm                            | 1.9 MB  00:00:00
(9/11): python3-pystache-0.5.4-12.amzn2.0.1.noarch.rpm                      | 138 kB  00:00:00
(10/11): python3-setuptools-38.4.0-3.amzn2.0.6.noarch.rpm                   | 617 kB  00:00:00
(11/11): python3-simplejson-3.2.0-1.amzn2.0.2.x86_64.rpm                    | 170 kB  00:00:00
---------------------------------------------------------------------------------------------------
Total                                                              66 MB/s |  38 MB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : python3-setuptools-38.4.0-3.amzn2.0.6.noarch                          1/13
  Installing : python3-libs-3.7.9-1.amzn2.0.2.x86_64                                 2/13
  Installing : python3-pip-9.0.3-1.amzn2.0.2.noarch                                  3/13
  Installing : python3-3.7.9-1.amzn2.0.2.x86_64                                      4/13
  Installing : python3-simplejson-3.2.0-1.amzn2.0.2.x86_64                           5/13
  Installing : python3-pystache-0.5.4-12.amzn2.0.1.noarch                            6/13
  Installing : python3-docutils-0.14-1.amzn2.0.2.noarch                              7/13
  Installing : 1:python3-lockfile-0.11.0-17.amzn2.0.2.noarch                         8/13
  Installing : python3-daemon-2.2.3-8.amzn2.0.2.noarch                               9/13
  Updating   : aws-cfn-bootstrap-2.0-6.amzn2.noarch                                 10/13
  Updating   : amazon-ssm-agent-3.0.529.0-1.amzn2.x86_64                            11/13
  Cleanup    : aws-cfn-bootstrap-1.4-34.amzn2.noarch                                12/13
  Cleanup    : amazon-ssm-agent-3.0.161.0-1.amzn2.x86_64                            13/13
  Verifying  : amazon-ssm-agent-3.0.529.0-1.amzn2.x86_64                             1/13
  Verifying  : python3-simplejson-3.2.0-1.amzn2.0.2.x86_64                           2/13
  Verifying  : python3-3.7.9-1.amzn2.0.2.x86_64                                      3/13
  Verifying  : python3-daemon-2.2.3-8.amzn2.0.2.noarch                               4/13
  Verifying  : python3-pystache-0.5.4-12.amzn2.0.1.noarch                            5/13
  Verifying  : python3-setuptools-38.4.0-3.amzn2.0.6.noarch                          6/13
  Verifying  : python3-docutils-0.14-1.amzn2.0.2.noarch                              7/13
  Verifying  : aws-cfn-bootstrap-2.0-6.amzn2.noarch                                  8/13
  Verifying  : python3-libs-3.7.9-1.amzn2.0.2.x86_64                                 9/13
  Verifying  : 1:python3-lockfile-0.11.0-17.amzn2.0.2.noarch                        10/13
  Verifying  : python3-pip-9.0.3-1.amzn2.0.2.noarch                                 11/13
  Verifying  : amazon-ssm-agent-3.0.161.0-1.amzn2.x86_64                            12/13
  Verifying  : aws-cfn-bootstrap-1.4-34.amzn2.noarch                                13/13

Dependency Installed:
  python3.x86_64 0:3.7.9-1.amzn2.0.2            python3-daemon.noarch 0:2.2.3-8.amzn2.0.2 python3-docutils.noarch 0:0.14-1.amzn2.0.2   python3-libs.x86_64 0:3.7.9-1.amzn2.0.2
  python3-lockfile.noarch 1:0.11.0-17.amzn2.0.2 python3-pip.noarch 0:9.0.3-1.amzn2.0.2    python3-pystache.noarch 0:0.5.4-12.amzn2.0.1 python3-setuptools.noarch 0:38.4.0-3.amzn2.0.6
  python3-simplejson.x86_64 0:3.2.0-1.amzn2.0.2

Updated:
  amazon-ssm-agent.x86_64 0:3.0.529.0-1.amzn2                                     aws-cfn-bootstrap.noarch 0:2.0-6.amzn2

Complete!
[ec2-user@ip-172-31-33-78 ~]$ sudo su
[root@ip-172-31-33-78 ec2-user]#
```

Activities Terminal Apr 10 11:34 PM 100 %

root@ip-172-31-33-78:/var/www/html

```
  Verifying  : httpd-filesystem-2.4.46-1.amzn2.noarch                                                                                                                 2/9
  Verifying  : apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64                                                                                                                  3/9
  Verifying  : httpd-tools-2.4.46-1.amzn2.x86_64                                                                                                                      4/9
  Verifying  : mod_http2-1.15.14-2.amzn2.x86_64                                                                                                                       5/9
  Verifying  : apr-1.6.3-5.amzn2.0.2.x86_64                                                                                                                           6/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                                                                                          7/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                                                                              8/9
  Verifying  : httpd-2.4.46-1.amzn2.x86_64                                                                                                                            9/9

Installed:
  httpd.x86_64 0:2.4.46-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2                apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2       generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.46-1.amzn2      httpd-tools.x86_64 0:2.4.46-1.amzn2      mailcap.noarch 0:2.1.41-2.amzn2               mod_http2.x86_64 0:1.15.14-2.amzn2

Complete!
[root@ip-172-31-33-78 ec2-user]# cd /var/www/html
[root@ip-172-31-33-78 html]# pwd
/var/www/html
[root@ip-172-31-33-78 html]# wget https://rubikscube.s3.ap-south-1.amazonaws.com/cube.zip
--2021-04-10 17:58:46--  https://rubikscube.s3.ap-south-1.amazonaws.com/cube.zip
Resolving rubikscube.s3.ap-south-1.amazonaws.com (rubikscube.s3.ap-south-1.amazonaws.com)... 52.219.66.26
Connecting to rubikscube.s3.ap-south-1.amazonaws.com (rubikscube.s3.ap-south-1.amazonaws.com)|52.219.66.26|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 47084 (46K) [application/zip]
Saving to: ‘cube.zip’

100%[=================================================================================================================================>] 47,084      --.-K/s   in 0.001s

2021-04-10 17:58:46 (42.5 MB/s) - ‘cube.zip’ saved [47084/47084]

[root@ip-172-31-33-78 html]# ls
cube.zip
[root@ip-172-31-33-78 html]# unzip cube.zip
Archive:  cube.zip
   creating: cube/
  inflating: cube/index.html
  inflating: cube/script.js
  inflating: cube/style.css
[root@ip-172-31-33-78 html]# ls
cube  cube.zip
[root@ip-172-31-33-78 html]# cd cube
[root@ip-172-31-33-78 cube]# ls
index.html  script.js  style.css
[root@ip-172-31-33-78 cube]# cp index.html script.js style.css ../.
[root@ip-172-31-33-78 cube]# cd ..
[root@ip-172-31-33-78 html]# ls
cube  cube.zip  index.html  script.js  style.css
[root@ip-172-31-33-78 html]# 
```


https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:sort=instanceState
aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
Prakash agarwal
Mumbai
Support
New EC2 Experience
Tell us what you think
EC2 Dashboard New
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups New
Elastic IPs New
Placement Groups
Key Pairs
Network Interfaces New
Load Balancing
Instances (1/3) Info
Connect
Instance state
Actions
Launch instances
Filter instances
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
Elastic IP
cube_game
i-0abec6d2c1ad7c061
Running
t2.micro
2/2 checks passed
No alarms
ap-south-1a
ec2-13-127-168-99.ap-...
13.127.168.99
jinkins_git_not...
i-0ddc8a606e72d22ff
Stopped
t2.micro
–
No alarms
ap-south-1b
rubicks_cube
i-0e9ad7c22c47df3d6
Terminated
t2.micro
Instance: i-0abec6d2c1ad7c061 (cube_game)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Instance summary Info
Feedback
English (US)
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Terms of Use
Cookie preferences

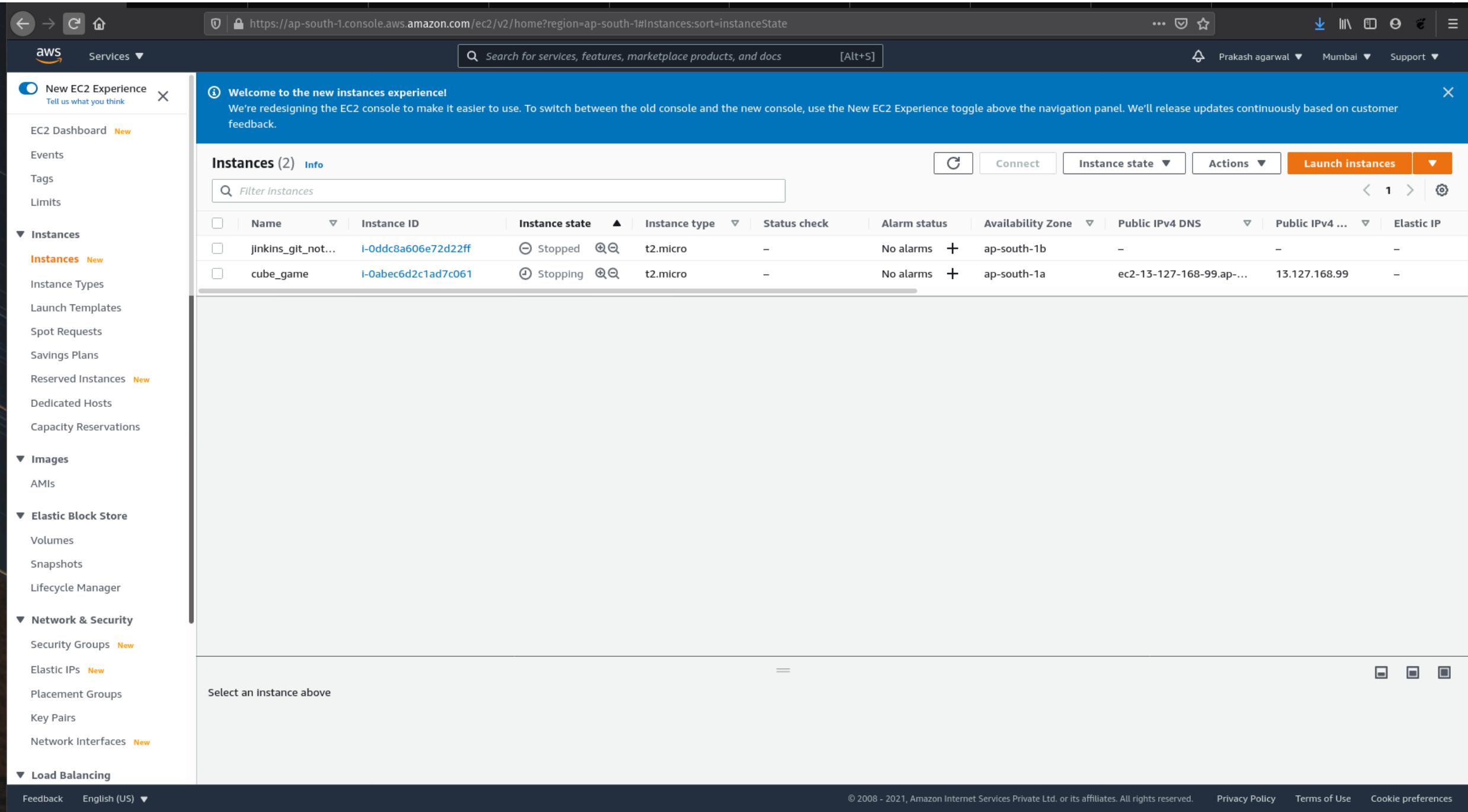
Activities Terminal Apr 11 12:13 AM 100 %

root@ip-172-31-33-78:/var/www/html

```
  Verifying  : httpd-tools-2.4.46-1.amzn2.x86_64                                                                    4/9
  Verifying  : mod_http2-1.15.14-2.amzn2.x86_64                                                                     5/9
  Verifying  : apr-1.6.3-5.amzn2.0.2.x86_64                                                                         6/9
  Verifying  : mailcap-2.1.41-2.amzn2.noarch                                                                        7/9
  Verifying  : generic-logos-httpd-18.0.0-4.amzn2.noarch                                                            8/9
  Verifying  : httpd-2.4.46-1.amzn2.x86_64                                                                          9/9

Installed:
  httpd.x86_64 0:2.4.46-1.amzn2

Dependency Installed:
  apr.x86_64 0:1.6.3-5.amzn2.0.2                apr-util.x86_64 0:1.6.1-5.amzn2.0.2      apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2      generic-logos-httpd.noarch 0:18.0.0-4.amzn2
  httpd-filesystem.noarch 0:2.4.46-1.amzn2      httpd-tools.x86_64 0:2.4.46-1.amzn2      mailcap.noarch 0:2.1.41-2.amzn2              mod_http2.x86_64 0:1.15.14-2.amzn2

Complete!
[root@ip-172-31-33-78 ec2-user]# cd /var/www/html
[root@ip-172-31-33-78 html]# pwd
/var/www/html
[root@ip-172-31-33-78 html]# wget https://rubikscube.s3.ap-south-1.amazonaws.com/cube.zip
--2021-04-10 17:58:46--  https://rubikscube.s3.ap-south-1.amazonaws.com/cube.zip
Resolving rubikscube.s3.ap-south-1.amazonaws.com (rubikscube.s3.ap-south-1.amazonaws.com)... 52.219.66.26
Connecting to rubikscube.s3.ap-south-1.amazonaws.com (rubikscube.s3.ap-south-1.amazonaws.com)|52.219.66.26|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 47084 (46K) [application/zip]
Saving to: 'cube.zip'

100%[==========================================================================================================>] 47,084      --.-K/s   in 0.001s

2021-04-10 17:58:46 (42.5 MB/s) - 'cube.zip' saved [47084/47084]

[root@ip-172-31-33-78 html]# ls
cube.zip
[root@ip-172-31-33-78 html]# unzip cube.zip
Archive:  cube.zip
   creating: cube/
  inflating: cube/index.html
  inflating: cube/script.js
  inflating: cube/style.css
[root@ip-172-31-33-78 html]# ls
cube  cube.zip
[root@ip-172-31-33-78 html]# cd cube
[root@ip-172-31-33-78 cube]# ls
index.html  script.js  style.css
[root@ip-172-31-33-78 cube]# cp index.html script.js style.css ../.
[root@ip-172-31-33-78 cube]# cd ..
[root@ip-172-31-33-78 html]# ls
cube  cube.zip  index.html  script.js  style.css
[root@ip-172-31-33-78 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-33-78 html]# 
```

13.127.168.99

0:00


https://ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#Instances:sort=instanceState
aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
Prakash agarwal
Mumbai
Support
New EC2 Experience
Tell us what you think
EC2 Dashboard New
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations
Images
AMIs
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups New
Elastic IPs New
Placement Groups
Key Pairs
Network Interfaces New
Load Balancing
Welcome to the new instances experience!
We're redesigning the EC2 console to make it easier to use. To switch between the old console and the new console, use the New EC2 Experience toggle above the navigation panel. We'll release updates continuously based on customer feedback.
Instances (2) Info
Connect
Instance state
Actions
Launch instances
Filter instances
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4 DNS
Public IPv4 ...
Elastic IP
jinkins_git_not...
i-0ddc8a606e72d22ff
Stopped
t2.micro
–
No alarms
ap-south-1b
–
–
–
cube_game
i-0abec6d2c1ad7c061
Stopping
t2.micro
–
No alarms
ap-south-1a
ec2-13-127-168-99.ap-...
13.127.168.99
–
Select an instance above
Feedback
English (US)
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Privacy Policy
Terms of Use
Cookie preferences

Commands when you turn on the instances again

```
Last login: Sat Apr 10 17:46:50 2021 from 103.161.56.77

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-33-78 ~]$ service httpd start
\Redirecting to /bin/systemctl start httpd.service
Failed to start httpd.service: The name org.freedesktop.PolicyKit1 was not provided by any .service files
See system logs and 'systemctl status httpd.service' for details.
[ec2-user@ip-172-31-33-78 ~]$ service httpd start
Redirecting to /bin/systemctl start httpd.service
Failed to start httpd.service: The name org.freedesktop.PolicyKit1 was not provided by any .service files
See system logs and 'systemctl status httpd.service' for details.
[ec2-user@ip-172-31-33-78 ~]$ sudo su
[root@ip-172-31-33-78 ec2-user]# ls
[root@ip-172-31-33-78 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-33-78 ec2-user]# cd /var
[root@ip-172-31-33-78 var]# pwd
/var
[root@ip-172-31-33-78 var]# ls
account  adm  cache  db  empty  games  gopher  kerberos  lib  local  lock  log  mail  nis  opt  preserve  run  spool  tmp  www  yp
[root@ip-172-31-33-78 var]# cd /www
bash: cd: /www: No such file or directory
[root@ip-172-31-33-78 var]#
[root@ip-172-31-33-78 var]# cd www
[root@ip-172-31-33-78 www]# cd ls
bash: cd: ls: No such file or directory
[root@ip-172-31-33-78 www]# pwd
/var/www
[root@ip-172-31-33-78 www]# ls
cgi-bin  html
[root@ip-172-31-33-78 www]# cd html
[root@ip-172-31-33-78 html]# service httpd start
Redirecting to /bin/systemctl start httpd.service
[root@ip-172-31-33-78 html]#
```