#### Day 1<sup>st</sup> Assignment Lab

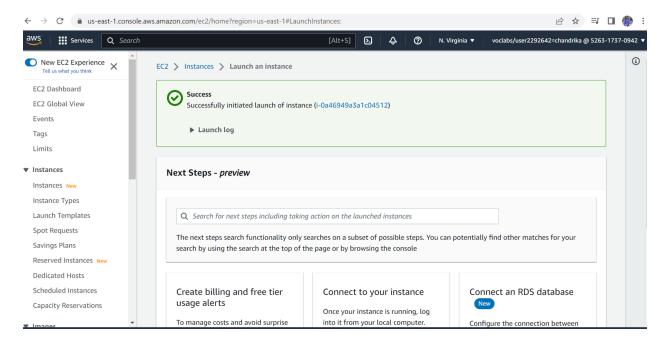
```
sudo: s: command not found
sh-4.2$ sudo -s
[root@ip-172-31-30-251 bin] # yum install httpd -y
Loaded plugins: extras suggestions, langpacks, priorities, update-motd
Resolving Dependencies
 -> Running transaction check
 --> Package httpd.x86 64 0:2.4.54-1.amzn2 will be installed
-> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86 64
--> Processing Dependency: httpd-filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64
 --> Processing Dependency: httpd-filesystem for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: /etc/mime.types for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: libaprutil-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
 --> Processing Dependency: libapr-1.so.0()(64bit) for package: httpd-2.4.54-1.amzn2.x86_64
 --> Running transaction check
 ---> Package apr.x86_64 0:1.7.0-9.amzn2 will be installed
 ---> Package apr-util.x86_64 0:1.6.1-5.amzn2.0.2 will be installed
 --> Processing Dependency: apr-util-bdb(x86-64) = 1.6.1-5.amzn2.0.2 for package: apr-util-1.6.1-5.amzn2.0.2.x86_64
 ---> Package generic-logos-httpd.noarch 0:18.0.0-4.amzn2 will be installed
 ---> Package httpd-filesystem.noarch 0:2.4.54-1.amzn2 will be installed
 ---> Package httpd-tools.x86_64 0:2.4.54-1.amzn2 will be installed
 ---> Package mailcap.noarch 0:2.1.41-2.amzn2 will be installed
 ---> Package mod http2.x86 64 0:1.15.19-1.amzn2.0.1 will be installed
 -> Running transaction check
 --> Package apr-util-bdb.x86 64 0:1.6.1-5.amzn2.0.2 will be installed
 -> Finished Dependency Resolution
Dependencies Resolved
```

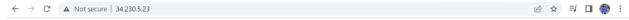
```
Installing: httpd-tools-2.4.54-1.amzn2.x86_64
Installing: httpd-filesystem-2.4.54-1.amzn2.noarch
Installing: generic-logos-httpd-18.0.0-4.amzn2.noarch
    Installing : mailcap-2.1.41-2.amzn2.noarch
Installing : mod_http2-1.15.19-1.amzn2.0.1.x86_64
   Installing: httpd-2.4.54-1.amzn2.x86_64

Verifying: apr-util-1.6.1-5.amzn2.0.2.x86_64

Verifying: apr-util-bdb-1.6.1-5.amzn2.0.2.x86_64
   Verifying : httpd-tools-2.4.54-1.amzn2.x86_64
Verifying : mod http2-1.15.19-1.amzn2.0.1.x86_64
   Verifying: httpd-2.4.54-1.amzn2.x86_64
Verifying: mailcap-2.1.41-2.amzn2.noarch
    Verifying : generic-logos-httpd-18.0.0-4.amzn2.noarch
   Verifying : httpd-filesystem-2.4.54-1.amzn2.noarch
Verifying : apr-1.7.0-9.amzn2.x86_64
 Installed:
   httpd.x86 64 0:2.4.54-1.amzn2
Dependency Installed:
apr.x86_64 0:1.7.0-9.amzn2
                                                                                                                                                                                         apr-util-bdb.x86_64 0:1.6.1-5.amzn2.0.2
                                                                                                 apr-util.x86 64 0:1.6.1-5.amzn2.0.2
   generic-logos-httpd.noarch 0:18.0.0-4.amzn2
                                                                                                 httpd-filesystem.noarch 0:2.4.54-1.amzn2 mod http2.x86_64 0:1.15.19-1.amzn2.0.1
                                                                                                                                                                                         httpd-tools.x86 64 0:2.4.54-1.amzn2
    mailcap.noarch 0:2.1.41-2.amzn2
Complete: [root@ip-172-31-30-251 bin]# service httpd start Redirecting to /bin/systemctl start httpd.service [root@ip-172-31-30-251 bin]# od /var/www/html [root@ip-172-31-30-251 html]# nano index.html [root@ip-172-31-30-251 html]# nano index.html
[root@ip-172-31-30-251 html]#
[root@ip-172-31-30-251 html]#
```

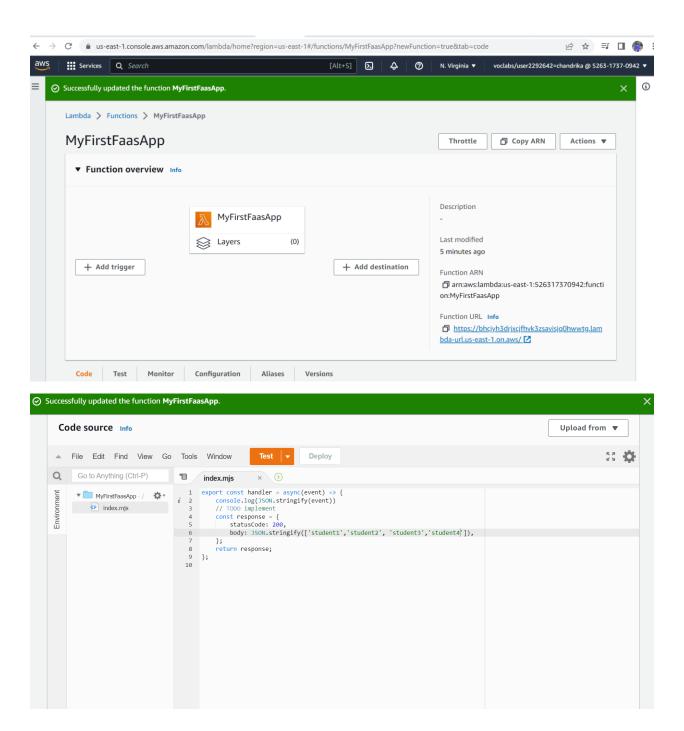
# Creating EC2 instance(IAAS)



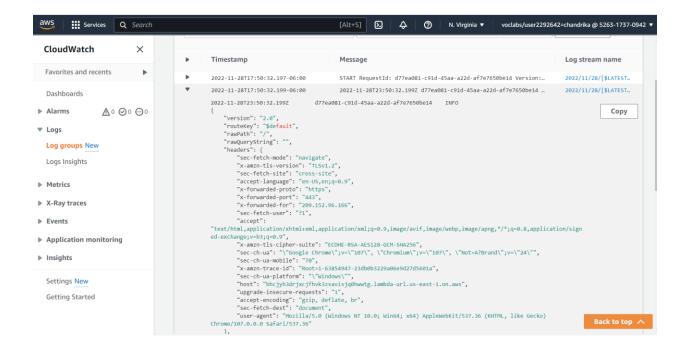


Welcome, Chandrika Thapa

#### Creating Lambda (FAAS)



["student1","student2","student3","student4"]



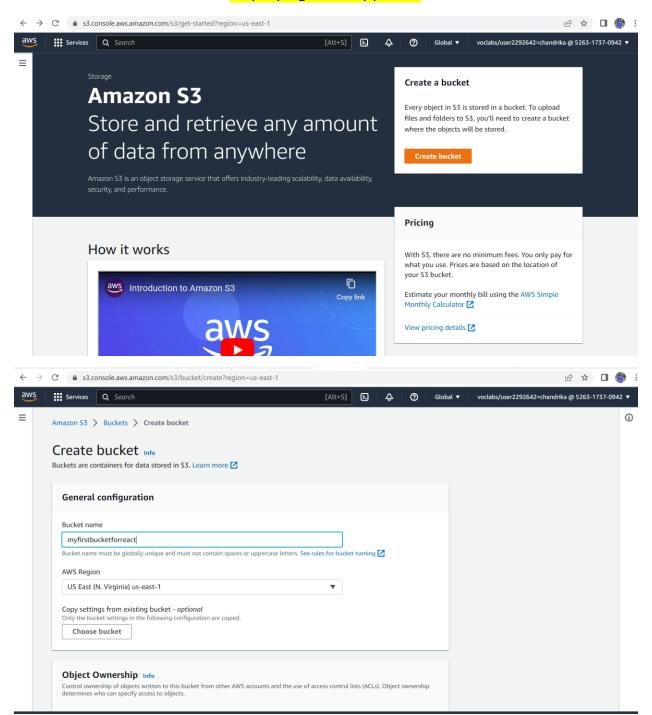
# **React app calling AWS FAAS**

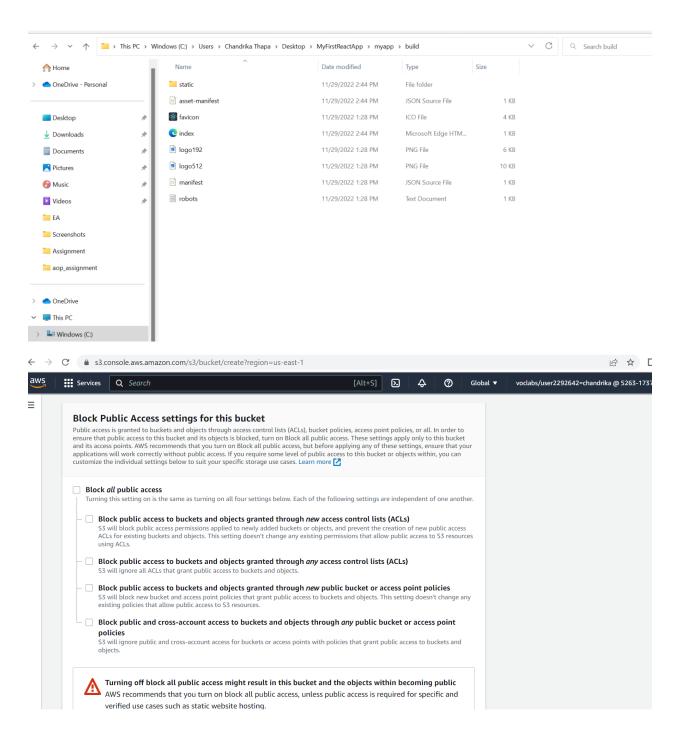
```
D
                                               import logo from "./logo.svg";
import "./App.css";
                                              import axios from "axios";
import { useEffect, useState } from "react";
         JS App.test.js
                                                    export default function App() {
  const [students, setStudents] = useState([]);
        # index.css
                                                       useEffect(() => {
    async function fetchStudents() {
    const studentsFromLambda = (
                                                            await axios.get(
"https://bhcjyh3drjxcjfhvk3zsavisjq0hwwtg.lambda-url.us-east-1.on.aws/"
                                                         ).data;
setStudents(studentsFromLambda);
console.log(studentsFromLambda);
                                                         fetchStudents();
                                                           Cloud Computing Course
                                                         > OUTLINE
     > TIMELINE
```

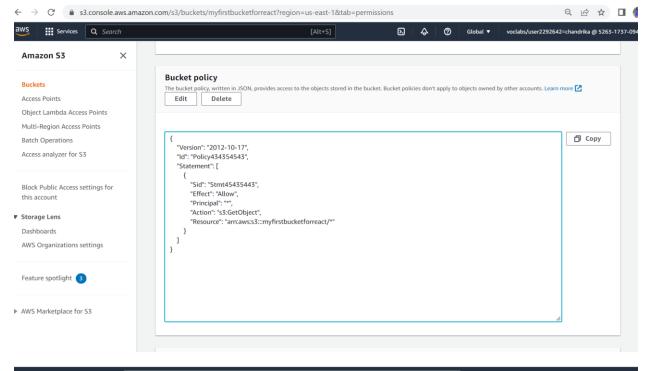


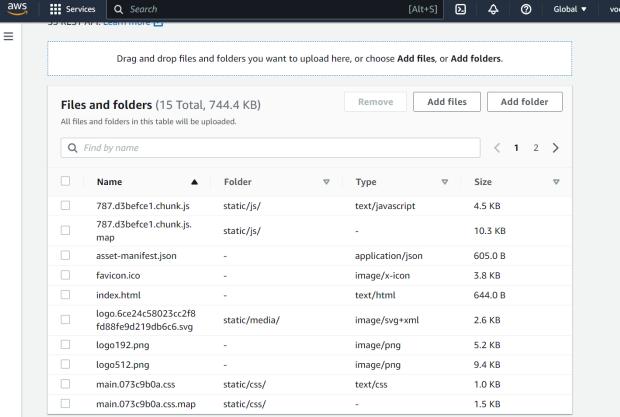
- 1. student1
- 2. student2
- 3. student3
- 4. student4

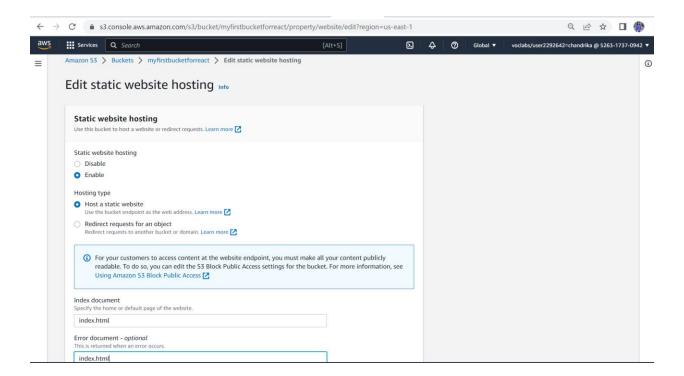
### Deploying react app in s3











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1. student1

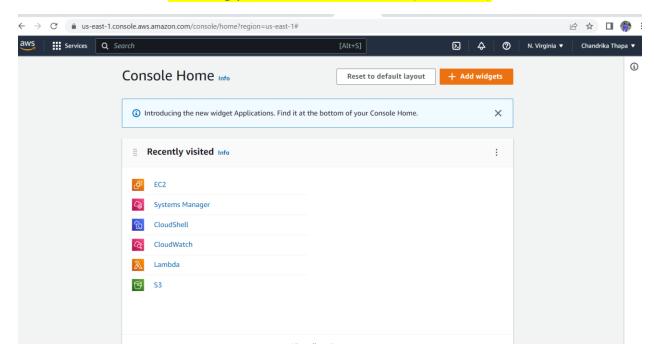
Cloud Computing Course

2. student2

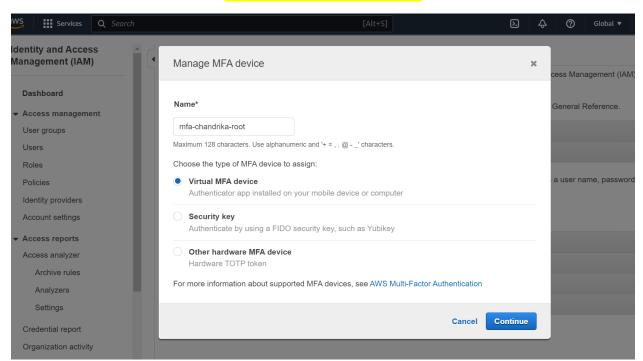
3. student3

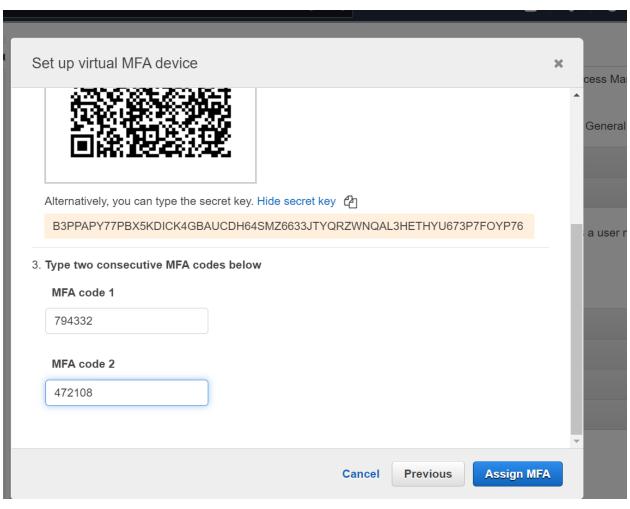
4. student4

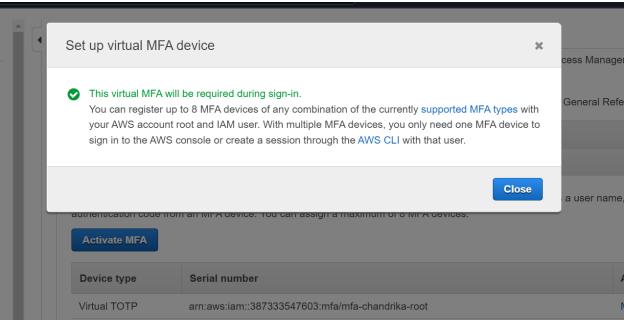
## Creating personal AWS account (root user)



# **Enabling MFA in root user**







#### ▼IAM User and Role Access to Billing Information

Use the **Activate IAM Access** setting to allow IAM users and roles access to pages of the Billing and Cost Management console. This setting alone doesn't grant IAM users and roles the necessary permissions for these console pages. In addition to activating IAM access, you must also attach the required IAM policies to those users or roles. For more information, see <u>Granting access to your billing information and tools</u>.

If this setting is deactivated, then IAM users and roles in this account can't access the Billing and Cost Management console pages, even if they have administrator access or the required IAM policies.

The Activate IAM Access setting does not control access to:

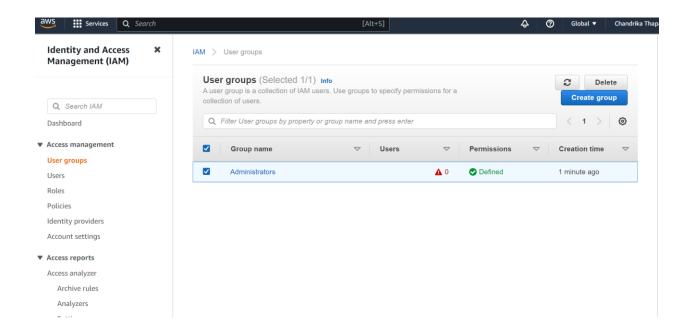
- The console pages for AWS Cost Anomaly Detection, Savings Plans overview, Savings Plans inventory, Purchase Savings Plans, and Savings Plan cart
- The Cost Management view in the AWS Console Mobile Application
- The Billing and Cost Management SDK APIs (AWS Cost Explorer, AWS Budgets, and AWS Cost and Usage Report APIs)
- The Customer Carbon Footprint Tool on the Cost & Usage Reports console page

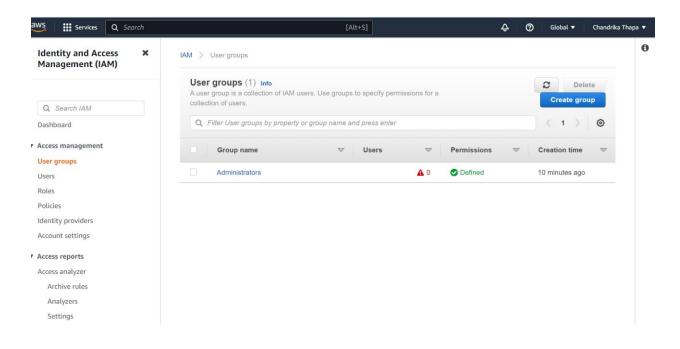


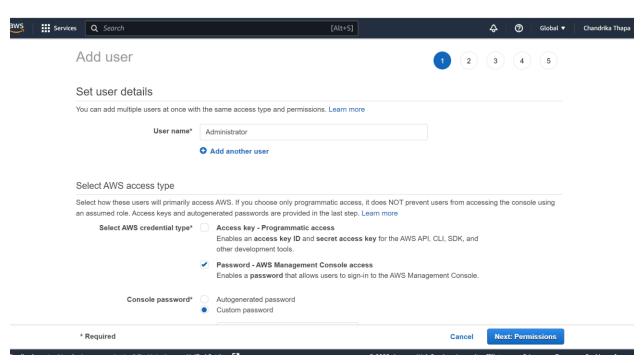
#### ▼Reserved Instance Marketplace Settings

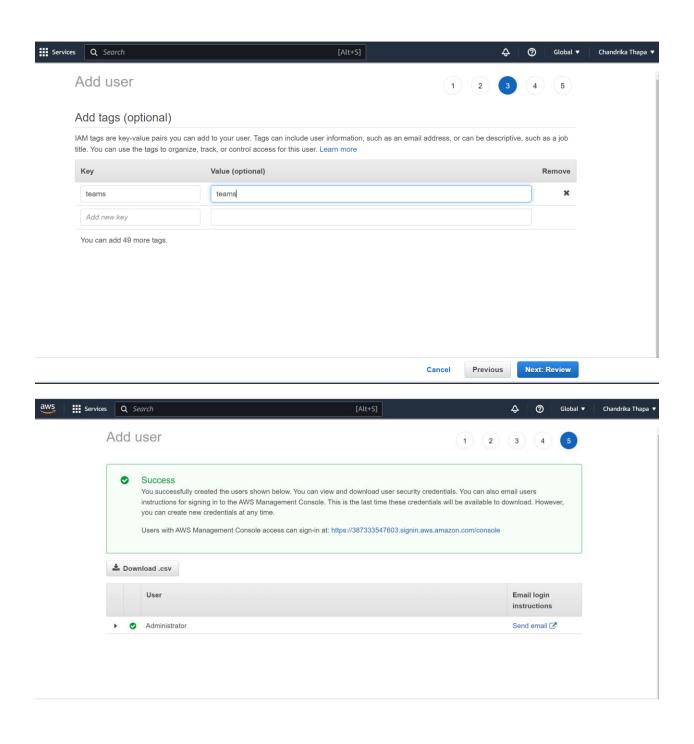
The Reserved Instance Marketplace gives you the flexibility to sell the remaining full months on your Reserved Instances. Manage your Reserved Instance Marketplace disbursement and tax information using options below.

### Creating administrator IAM user under Administrators group

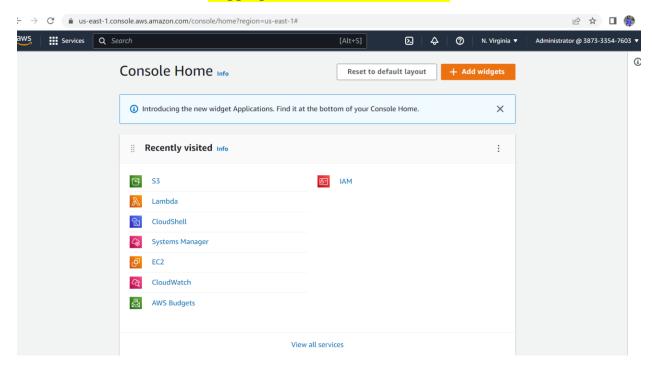








## Logging in as administrator user



# Setting billing alarm for root user

