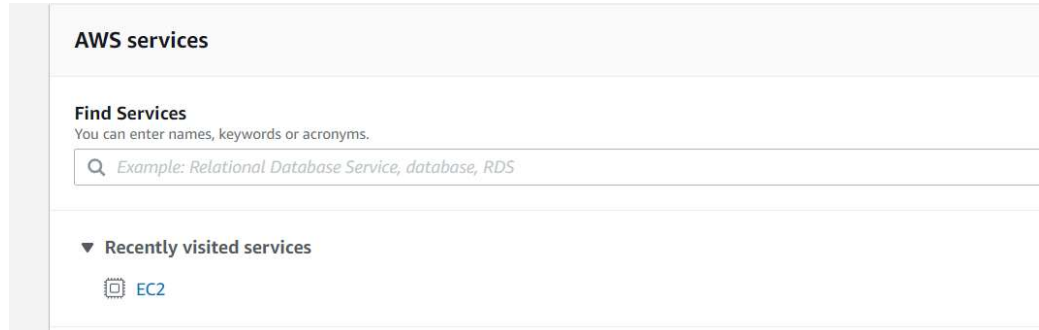


## Step 1 Create an Ubuntu Server

Sign into Amazon AWS account

Get into AWS console page.

Click EC2 sever, chose Ubuntu server.



Download the security key (xxx.pem).

## Step 2 Connect to the Ubuntu Server

Put the security key in to the .ssh folder and changes its permissions to 400.

Commend: `chmod 400 .ssh`

Sign in:

`sudo ssh -i xxx.pem ubuntu@xx.xxx.xxx.xx`

```
liyua@MSI MINGW64 ~/.ssh (master)
$ chmod 400 AME394.pem

liyua@MSI MINGW64 ~/.ssh (master)
$ ssh -i "AME394.pem" ubuntu@ec2-3-16-125-127.us-east-2.compute.amazonaws.com
```

## Step 3 setup the ubuntu server

Install Node, Build from Source

`curl -O http://nodejs.org/dist/v0.10.29/node-v0.10.29.tar.gz`

`tar -xvzf node-v0.10.29.tar.gz`

`cd node-v0.10.29`

`./configure --prefix=/opt/node`

`make`

`sudo mkdir -p /opt/node`

`sudo chown -R ubuntu.ubuntu /opt/node`

`make install`

Use git clone to clone all the stuff to the server

git clone <https://github.com/tejaswigowda/AME394Fall2019.git>

```
ubuntu@ip-172-31-47-197:~$ git clone https://github.com/tejaswigowda/AME394Fall2019.git
Cloning into 'AME394Fall2019'...
```

## Step 4 run the program on the server

Set up the ubuntu port 3000 open in the security group

The screenshot shows the Amazon EC2 Dashboard for the Asia Pacific (Mumbai) region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, NETWORK & SECURITY, and LOAD BALANCING. The 'NETWORK & SECURITY' section is expanded, showing 'Security Groups' as the selected option. The main content area displays 'Resources' with a summary of EC2 resources: 0 Running Instances, 0 Dedicated Hosts, 2 Volumes, 1 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 11 Security Groups. Below this is a 'Create Instance' section with a 'Launch Instance' button. The 'Service Health' section shows the status of the Asia Pacific (Mumbai) region as 'Operating normally'. The 'Availability Zone Status' section shows the 'ap-south-1a' zone as 'Operating normally'. At the bottom, a table lists the network security rules for the selected security group.

| Type            | Protocol | Port Range | Source    | Description |
|-----------------|----------|------------|-----------|-------------|
| Custom TCP Rule | TCP      | 3000       | 0.0.0.0/0 |             |

Locate to the cloudServerEg folder

cd AME394Fall2019/cloudServerEg/

```
ubuntu@ip-172-31-47-197:~$ cd AME394Fall2019/cloudServerEg/  
ubuntu@ip-172-31-47-197:~/AME394Fall2019/cloudServerEg$ pwd  
/home/ubuntu/AME394Fall2019/cloudServerEg  
ubuntu@ip-172-31-47-197:~/AME394Fall2019/cloudServerEg$ |
```

Run the program

node server.js