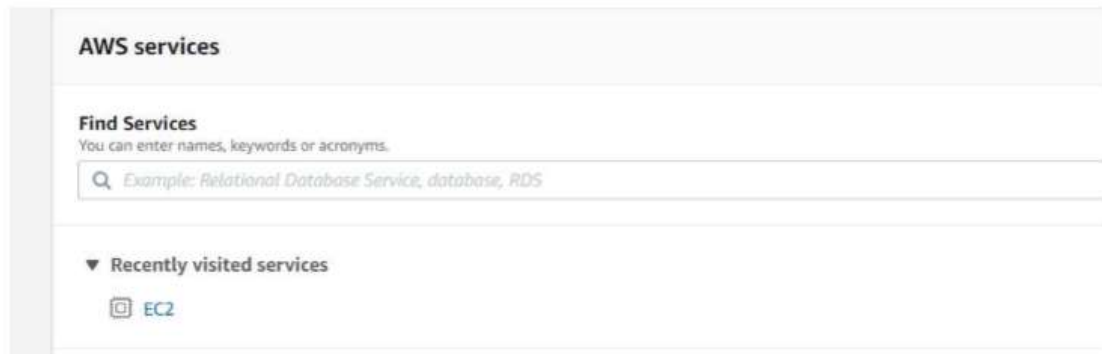# Step 1 Create an Ubuntu Server

Sign into Amazon AWS account Get into AWS console page. Click EC2 sever, chose Ubuntu server.

AWS services

Find Services
You can enter names, keywords or acronyms.

Q *Example: Relational Database Service, database, RDS*

▼ **Recently visited services**

□ EC2

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
```

After finish instilling, open git bash and test if it's instilled successfully.

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

yuanbol1 4		Clo
📁 A1	Create mathServer.js	Use
📁 A2	html	ht
📁 A3	a3	
📁 A4	4	C
📄 README.md	Create README.md	

git clone https://github.com/yuanbol1/AME470-Assignment.git


```
ubuntu@ip-172-31-47-197:~$ git clone https://github.com/yuanbol1/AME470-Assignme
nt.git
Cloning into 'AME470-Assignment'...
remote: Enumerating objects: 1359, done.
remote: Counting objects: 100% (1359/1359), done.
remote: Compressing objects: 100% (1095/1095), done.
remote: Total 1359 (delta 280), reused 1280 (delta 204), pack-reused 0
Receiving objects: 100% (1359/1359), 23.97 MiB | 23.69 MiB/s, done.
Resolving deltas: 100% (280/280), done.
ubuntu@ip-172-31-47-197:~$
```

Step 4 run the program on the server

Setup the mongodb on the server

Type

sudo apt update && sudo apt upgrade -y

sudo apt install mongodb

```
sudo apt install sl

ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4$ ls
README.md  package.json  rssViewer_dB
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4$ cd rssViewer-dB
-bash: cd: rssViewer-dB: No such file or directory
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4$ cd rssViewer_dB
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4/rssViewer_dB$ node server.js
body-parser deprecated bodyParser: use individual json/urlencoded middlewares se
rver.js:85:9
body-parser deprecated undefined extended: provide extended option node_modules/
body-parser/index.js:105:29
Simple static server listening at http://localhost:8080
^C
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4/rssViewer_dB$ sudo apt update && sudo apt upgra
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Hit:6 http://ppa.launchpad.net/chris-lea/redis-server/ubuntu bionic InRelease
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [871 k
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [303 k
Hit:9 http://ppa.launchpad.net/git-core/ppa/ubuntu bionic InRelease
Get:4 http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist InRelease [117 kB]
Err:4 http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist InRelease
  Clearsigned file isn't valid, got 'NOSPLIT' (does the network require authentication?)
Get:10 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [651 kB]
Get:11 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [211 kB]
Reading package lists... Done
E: Failed to fetch http://downloads-distro.mongodb.org/repo/ubuntu-upstart/dists/dist/InReleas
E: The repository 'http://downloads-distro.mongodb.org/repo/ubuntu-upstart dist InRelease' is
N: Updating from such a repository can't be done securely, and is therefore disabled by defaul
N: See apt-secure(8) manpage for repository creation and user configuration details.
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4/rssViewer_dB$ sudo apt install mo
ngodb
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-aws-headers-4.15.0-1052 linux-aws-headers-4.15.0-1054
  linux-aws-headers-4.15.0-1056 linux-aws-headers-4.15.0-1057
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  mongodb
0 upgraded, 1 newly installed, 0 to remove and 65 not upgraded.
Need to get 9968 B of archives.
After this operation, 44.0 kB of additional disk space will be used.
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd
64 mongodb amd64 1:3.6.3-0ubuntu1.1 [9968 B]
Fetched 9968 B in 0s (0 B/s)
Selecting previously unselected package mongodb.
(Reading database ... 195006 files and directories currently installed.)
Preparing to unpack .../mongodb_1%3a3.6.3-0ubuntu1.1_amd64.deb ...
Unpacking mongodb (1:3.6.3-0ubuntu1.1) ...
Setting up mongodb (1:3.6.3-0ubuntu1.1) ...
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4/rssViewer_dB$ |
```

then type

mongo to open the mongo shell

and connect to the localhost

mongo://localhost

Set up the ubuntu port 8080 open in the security group

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

Locate to the folder

Run the program

node server.js

```
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4$ ls
README.md   package.json   rssViewer_dB
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4$ cd rssViewer-dB
-bash: cd: rssViewer-dB: No such file or directory
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4$ cd rssViewer_dB
ubuntu@ip-172-31-47-197:~/AME470-Assignment/A4/rssViewer_dB$ node server.js
body-parser deprecated bodyParser: use individual json/urlencoded middlewares se
rver.js:85:9
body-parser deprecated undefined extended: provide extended option node_modules/
body-parser/index.js:105:29
Simple static server listening at http://localhost:8080
```

Then type the server IP address and the port number to open the html page

Add some feeds from https://rss.itunes.apple.com/en-us

https://rss.itunes.apple.com/api/v1/us/apple-music/coming-soon/all/10/explicit.json   https://rss.itunes.apple.co

tracks/all/10/expli
cit.json   Add Feed

Back   Delete

After Hours

The Weeknd

My Turn

Lil Baby

Such Pretty Forks

Alanis Moriss

Folkesange

Myrkur

Wake Up, Sunshine

All Time Low

Verminous

The Black Dahlia Mu