

AWS Practice day 1



Date @July 10, 2025

Setting up SSH

(If your laptop is Windows, then set up the ssh in Git bash <https://git-scm.com/downloads/win>)

FYI CLI commands

1. To make a directory/folder

```
mkdir your-folder-name
```

2. To go into the folder

```
cd folder-name
```

3. Check available file and folders

```
ls
```

Go to your folder that has the .pem file (python.pem), for EXAMPLE

```
cd C:/KADA/
```

type: `ssh -i python.pem ubuntu@your-aws-public-ip`

```
ssh -i python.pem ubuntu@54.151.149.21
```

Python Group can use this IP if you don't have the AWS billing. Make sure it has worked until it shows `ubuntu@(your-public-ip):~$`

```
ubuntu@ip-172-31-23-43:~$
```

Try installing ping to ping a website by using command

```
sudo apt install ping
```

Ping any website, for example google.com

```
ping google.com
```

Create Workspace and Clone GitHub

Requirement:

Make sure you have a backend project in your GitHub from the previous mini project. OR you can download Mr. Daniel's github repository (<https://github.com/TunaLee/express-class>) and push it to your GitHub just for a test.

Create Workspace directory (folder) and go to that folder using

```
mkdir Workspace  
cd Workspace/
```

Once you make sure you have the required repository, run the command `git clone your-repo.git`. For EXAMPLE:

```
git clone https://github.com/aroliani/music-discovery-project.git
```

Install Node.js

To run the file, you must install node.js from <https://nodejs.org/en/download>

Make sure the OS is Linux because we're using Ubuntu. Copy ONE LINE then enter. Keep doing so until you have the npm version



The screenshot shows the 'Download Node.js' page. At the top, it says 'Get Node.js@ v22.17.0 (LTS) for Linux using nvm with npm'. Below this is an 'Info' bar that says 'Want new features sooner? Get the latest Node.js version instead and try the latest improvements!'. The main content is a list of 15 numbered steps for installing nvm and Node.js. At the bottom, there is a 'Bash' label and a 'Copy to clipboard' button.

```
1 # Download and install nvm:
2 curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.3/install.sh | bash
3
4 # in lieu of restarting the shell
5 \. "$HOME/.nvm/nvm.sh"
6
7 # Download and install Node.js:
8 nvm install 22
9
10 # Verify the Node.js version:
11 node -v # Should print "v22.17.0".
12 nvm current # Should print "v22.17.0".
13
14 # Verify npm version:
15 npm -v # Should print "10.9.2".
```

Download and install nvm:

```
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.40.3/install.sh | bash
```

in lieu of restarting the shell

```
\. "$HOME/.nvm/nvm.sh"
```

Download and install Node.js:

```
nvm install 22
```

Verify the Node.js version:

```
node -v # Should print "v22.17.0".
```

```
nvm current # Should print "v22.17.0".
```

```
# Verify npm version:  
npm -v # Should print "10.9.2".
```

Setup our Project

Go to your project folder using cd command

```
cd your-folder-name
```

and then

```
npm install
```

example:

```
ubuntu@ip-172-31-23-43:~/Workspace$ ls  
music-discovery-project  
ubuntu@ip-172-31-23-43:~/Workspace$ cd music-discovery-project/  
ubuntu@ip-172-31-23-43:~/Workspace/music-discovery-project$ npm install
```

If you don't have the .env file from your project, you should create one using vim

```
vim .env
```

and then copy and paste the content of your .env file from the VSCode to the bash. To save the file, you can use SHIFT + Z. Click the Z TWICE.

ALTERNATIVELY, you can use nano.

```
sudo nano .env
```

and then copy paste. You can save it by using CTRL + X and then yes, then enter (or just follow the guide on the screen).

Activate MongoDB

Visit <https://www.mongodb.com/docs/manual/tutorial/install-mongodb-on-ubuntu/> and follow guide 1 to 4



Make sure the Ubuntu is the Noble one

```
sudo apt-get install gnupg curl
```

```
curl -fsSL https://www.mongodb.org/static/pgp/server-8.0.asc | \
  sudo gpg -o /usr/share/keyrings/mongodb-server-8.0.gpg \
  --dearmor
```

```
echo "deb [ arch=amd64,arm64 signed-by=/usr/share/keyrings/mongodb-server-8.0.gpg ] https://repo.mongodb.org/apt/ubuntu mongodb-org/8.0" | sudo tee /etc/apt/sources.list.d/mongodb-org-8.0.list
```

```
sudo apt-get update
```

```
sudo apt-get install -y mongodb-org
```

Then, run your mongodb using

```
sudo systemctl start mongod  
sudo systemctl status mongod
```

to exit, you can click q

If you use nodemon (check your package.json package if you have the nodemon server.js or node server.js), install nodemon and the packages from your project using

```
npm install -g nodemon  
npm install
```

and then, go to the folder where you have your index.js or server.js, and run the code with

```
npm start
```

It's IMPORTANT that you pay attention on which folder you're running your command.

For example:

```
ubuntu@ip-172-31-23-43:~/Workspace/react-posts$ cd backend/  
ubuntu@ip-172-31-23-43:~/Workspace/react-posts/backend$ npm start  
  
> express-test@1.0.0 start  
> nodemon index.js  
  
[nodemon] 3.1.10  
[nodemon] to restart at any time, enter `rs`  
[nodemon] watching path(s): *.*  
[nodemon] watching extensions: js,mjs,cjs,json  
[nodemon] starting `node index.js`  
[dotenv@17.0.1] injecting env (4) from .env - [tip] encrypt with dotenvx: https://doten  
vx.com  
database connected  
Server is running on port 3000
```