

## Deploy Express App to Aws

### Prepare Github and Express

Cd to project directory -> npm init -y -> npm install express -> git init -> git add . -> git commit  
Server.js file require express -> set baseUrl -> app.use(express.static(`\${\_\_dirname}/public`))

### Set AWS Account

Create AWS Account  
Set up Security Group

### Connect Github to EC2

Ssh keygen -t rsa -> cd ~ -> ls -la -> cd .ssh -> ls -> cat id\_rsa.pub -> copy the whole key -> Github Account -> setting -> ssh and GPH keys -> new ssh key -> paste the key -> Add ssh key

### Prepare Remote Server

Sudo su -> apt update -> apt upgrade -> apt install nodejs -y -> apt install npm -y -> npm i -g n -> n stable -> npm i -g npm -> npm i -g

### Set Up EC2

Service -> Compute -> EC2 -> Launch EC2 button -> Instance link -> Instance Id -> Connect -> EC2 Instance connect -> Connect

### Check Everything Install Correctly

node --version -> npm --version -> pm2 --version

Go to project repo -> switch SSH tab -> copy SSH url -> back to EC2 terminal -> cd ~ -> git clone git@github.com:username/reponame-git

### Get App and Running

npm i -> iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-ports 4000 -> nodemon server.js -> open Address

### Run App with pm2

Kill the nodemon process if it is running  
Pm2 start server.js name projectname

### Update Deployed Project

-make changes in VS code  
Connect to EC2 -> cd ~ -> git pull origin main