

Step 1 - What is AWS

AWS is Amazon's cloud service.

It let's you

- 1. Rent servers
- 2. Manage domains
- 3. Upload objects (mp4 files, jpgs, mp3s ...)
- 4. Autoscale servers
- 5. Create k8s clusters

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The offering we will be focussing on today is Renting servers



Step 2 - EC2 servers

VMs on AWS are called EC2 Servers

EC2 stands for Elastic compute Version 2.

- 1. Elastic Can increase/decrease the size of the machine
- 2. Compute It is a machine

You can spin up a new EC2 instance from the aws dashboard



Step 3 - Creating a new EC2 server

- 1. Click on Launch a new instance
- 2. Give a name
- 3. Select an OS
- 4. Select size
- 5. Create a new Key pair
- 6. Select Size
- 7. Allow traffic on http/https



Step 4 - SSH into server

1. Give ssh key permissions

chmod 700 kirat-class.pem

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2. ssh into machine

ssh -i kirat-class.pem ubuntu@ec2-65-0-180-32.ap-south-1.compute.amazof

3. Clone repo

git clone https://github.com/hkirat/sum-server



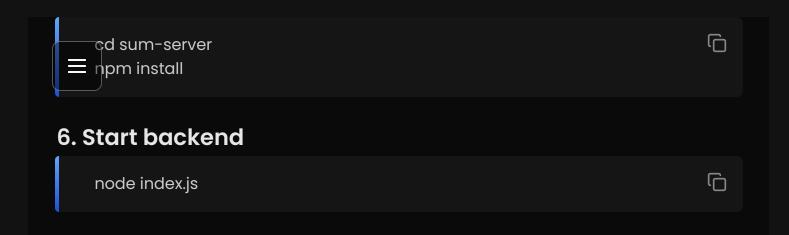
If your aws machine shows you the following error, your aws machine doesn't have access to the internet

Solution - https://www.tecmint.com/resolve-temporary-failure-inname-resolution/

4. Install Node.js

🦞 https://www.digitalocean.com/community/tutorials/how-to-installnode-js-on-ubuntu-20-04

5. Install all dependencies



Step 5 - Install the repo

Clone the repo

https://github.com/hkirat/sum-server





Step 6 - Try hitting the server

You have an ip/DNS that you can hit to access your ec2 server

Try visiting the backend

your_domain:3000

Notice you can't visit the website during this time

Security group

You can either open port 8080, or process on port 80

Step 7 - nginx

https://www.nginx.com/resources/glossary/nginx/

What is a reverse proxy?

Installing nginx

sudo apt update sudo apt install nginx



This should start a nginx server on port 80

Try visiting the website

Create reverse proxy sudo rm sudo vi /etc/nginx/nginx.conf sudo vi /etc/nginx/nginx.conf events { # Event directives... http { server { listen 80; server_name be1.100xdevs.com; location / { proxy_pass http://localhost:8080; proxy_http_version 1.1; proxy_set_header Upgrade \$http_upgrade; proxy_set_header Connection 'upgrade'; proxy_set_header Host \$host; proxy_cache_bypass \$http_upgrade; sudo nginx -s reload

Start the Backend server

node index.js

Visit the website

https://be1.100xdevs.com/



Step 8 - Certificate management

Use https://certbot.eff.org/

