

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

The offering we will be focussing on today is Renting servers

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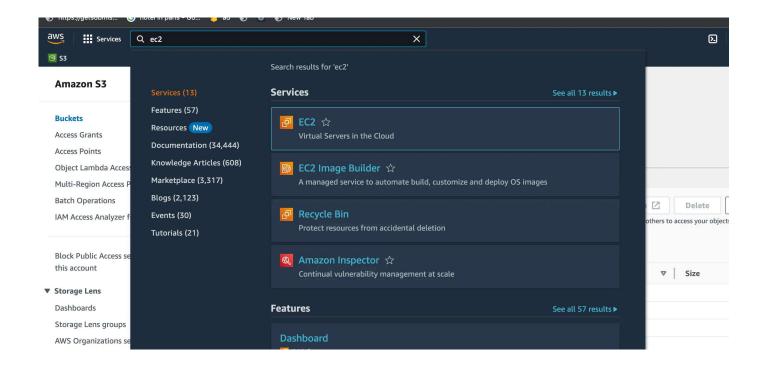
Step 2 - EC2 servers

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



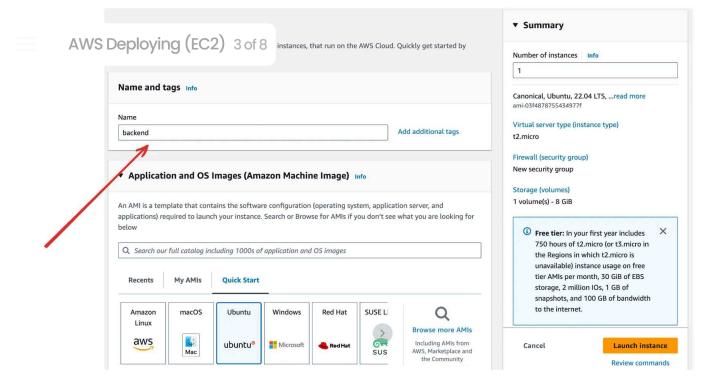
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Step 3 - Creating a new EC2 server

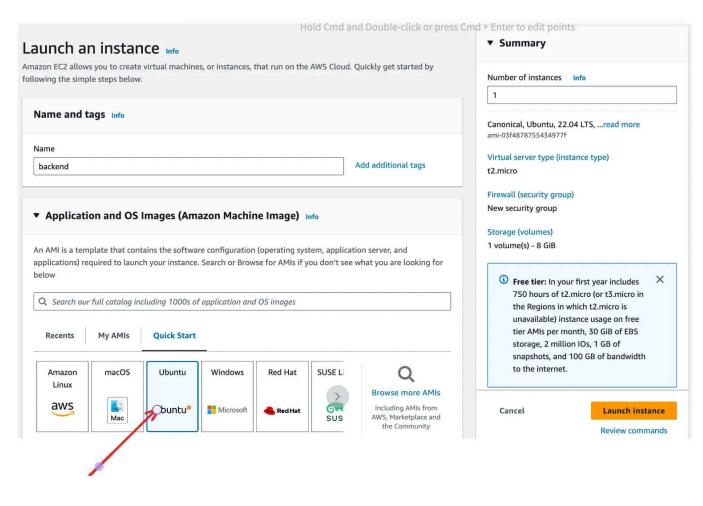
1. Click on Launch a new instance



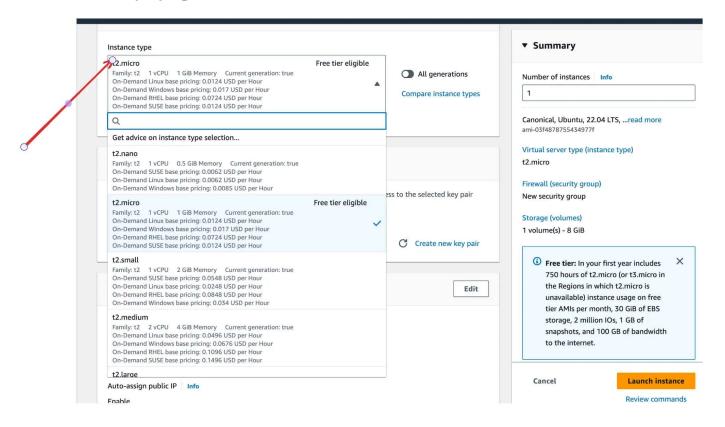
2. Give a name



3. Select an OS



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5. Create a new Key pair

Step 4 - SSH into server

1. Give ssh key permissions

chmod 700 kirat-class.pem

2. ssh into machine

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



3. Clone repo





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

cd sum-server npm install

6. Start backend

node index.js

Step 5 - Install the repo

Clone the repo

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

http://your_domain:8080



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 / {
        proxv pass http://localhost:8080;
        _____upgrade;
```

```
proxy_set_header Connection 'upgrade';

AWS Deploying (EC2) 3 of 8 ttp_upgrade;
}
}
sudo nginx -s reload
```

Start the Backend server

node index.js

Visit the website

https://bel.100xdevs.com/

Step 8 - Certificate management

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