

Create Virtual Machine

Sure! Let's make your EC2 and name it **finmars-platform-vm**. Follow these steps:

- 1. Sign in to AWS**
 - Open your browser and go to console.aws.amazon.com.
 - Enter your AWS email and password.
- 2. Open EC2**
 - At the top, click the search box and type **EC2**.
 - Click **EC2** under "Services."
- 3. Launch a new instance**
 - Click the blue **Launch instances** button.
- 4. Name your instance**
 - In the **Name tag** box, type **finmars-platform-vm**.
- 5. Choose AMI (Ubuntu 24.04)**
 - Scroll or search for **Ubuntu Server 24.04 LTS**.
 - Pick 64-bit (x86) (should be default)
 - Click **Select**.
- 6. Select instance type (2 vCPU, 8 GiB RAM)**
 - Find and click **t3.large** (it has 2 vCPU and 8 GiB).
- 7. Create or select key pair**
 - Choose **Create a new key pair**.
 - Name it (e.g. **finmars-platform-vm-key**).
 - Click **Create Key Pair** and save the `.pem` file safely. - **Do not Lose this file, if you lose it, you will not able to connect to your VM again**
- 8. Configure instance details**
 - Under **Subnet**, pick one (any is fine).
 - Subnet - Default is ok (or do accordingly to your network configuration)
 - Turn **Auto-assign Public IP** to **Enable**. (If already enabled - OK)
 - Turn on checkbox **Allow SSH traffic from**
 - Turn on checkbox **Allow HTTPS traffic from the internet**
 - Turn on checkbox **Allow HTTP traffic from the internet**
 - Leave the rest as default.
 - Click **Next: Add Storage**.
- 9. Add storage (256 GiB)**
 - Change the size from **8** to **256** in the root volume row.
 - Keep the volume type as **gp3** or **gp2**.
- 10. Review and launch**
 - Check all your settings.
 - Click **Launch Instance**.
- 11. Wait for your VM**
 - Click **View Instances**.

- Wait until its status is **running** and checks pass.

12. Connect to your VM

- Select the instance named **finmars-platform-vm**.
- Click **Connect**.
- Follow the instructions, for example:

```
# Move your Download key file to secure folder (~/Downloads not recommended)

# if this first connect
chmod 400 "finmars-platform-vm.pem"
ssh -i ./finmars-platform-vm.pem ubuntu@<Public-IP>

# if this first connect
# Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
# yes
```

Your EC2 named **finmars-platform-vm** is ready! ☐☐

Now you need to assign your Public IP of your freshly created VM to subdomain of your domain.

1. Sign in to AWS

Go to console.aws.amazon.com and log in.

2. Open Route 53

In the top search bar, type **Route 53**, then click the service.

3. Go to Hosted Zones

In the left menu, click **"Hosted zones."**

4. Select your domain

Find and click the zone named your_domain.tld (for example, `example.com`).

5. Create the first record

- Click **"Create record."**
- In **Record name**, type `finmars` (so full name is `finmars.example.com`). - It is Record for Actual Finmars Platform
- For **Record type**, choose **A - IPv4 address**.
- In **Value**, type your EC2 public IP (for example, `203.0.113.25`). You can find it in EC2 details
- Leave **TTL** as default (300).
- Click **"Create records."**

6. Create the second record

- Click **"Create record"** again.
- In **Record name**, type `finmars-auth` (so full name is `finmars-auth.example.com`). - It is Record for Single-Sign-On (SSO) Finmars

- For **Record type**, choose **A - IPv4 address**.
- In **Value**, type the same EC2 public IP.
- Click **“Create records.”**

7. Wait a few minutes

DNS needs a little time to spread out. After about 5 minutes, both

- `finmars.example.com`
- `finmars-auth.example.com`

will go to your VM’s public IP.

That’s it! Now both sub-domains point to your **finmars-platform-vm** server.

You can verify it by run following command in Terminal (On Mac or Linux)

```
dig finmars.example.com
dig finmars-auth.example.com
```

Output should be like:

```
; <<>> DiG 9.10.6 <<>> finmars.example.com
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 39082
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags;; udp: 4096
;; QUESTION SECTION:
;finmars-platform-vm.finmars.com. IN A

;; ANSWER SECTION:
finmars.example.com. 300 IN A 203.0.113.25

;; Query time: 12 msec
;; SERVER: 192.168.178.1#53(192.168.178.1)
;; WHEN: Wed Jun 11 20:10:02 CEST 2025
;; MSG SIZE rcvd: 76
```

Now go to next step: [Install Finmars Platform](#)

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