

Create Virtual Machine

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

- 1. Sign in to Azure**
 - Open your browser and go to <https://portal.azure.com/>.
 - Enter your Azure email and password or Log in with your Microsoft Account.
- 2. Open Virtual Machines**
 - At the top, click the search box and type **Virtual machines**.
 - Click **Virtual machines** under "Services."
- 3. Launch a new instance**
 - Click the **Create** button and pick **Virtual Machine**.
- 4. Pick your Resource Group (or create New One)**
- 5. Pick Region (or leave default)**
- 6. Name your instance**
 - In the **Virtual machine name** box, type **finmars-platform-vm**.
- 7. Choose Image (Ubuntu 24.04)**
 - Scroll or search for **Ubuntu Server 24.04 LTS**.
 - Pick 64-bit (x86) (should be default)
 - Click **Select**.
- 8. Select instance Size (2 vCPU, 8 GiB RAM)**
 - Find and click **B2ms** (it has 2 vCPU and 8 GiB).
- 9. Create or select key pair**
 - Choose **Username - azureuser**.
 - SSH public key source - Generate new key pair
 - Key pair name - **finmars-platform-vm-key** - **Do not Lose this file, if you lose it, you will not able to connect to your VM again**
- 10. Select Inbound Ports**
 - Turn on checkbox **SSH**
 - Turn on checkbox **HTTPS**
 - Turn on checkbox **HTTP**
 - Click **Next: Disks**
- 11. Add storage (256 GiB)**
 - Change the size from **8** to **256** in the root volume row. (OS disk size)
 - Keep the volume type as **Premium SSD**
 - Click **Next: Networking**
- 12. Networking**
 - Public IP: New Public IP **finmars-platform-vm-ip**
- 13. Review and Create**
 - Check all your settings.
 - Click **Review + Create**.
- 14. Wait for your VM**

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

15. **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
```

16. When your Virtual Machine is created, go to Virtual Machine Details Page in Azure Portal

- On Sidebar, go to **Networking**.
- Open **Network Settings**
- You should see **Network Security Group**
- Press **Create Port Rule** button (Inbound Port Rule)
- Follow this configuration:
 - Source: Any
 - Source Port Ranges: *
 - Destination: Any
 - Service: Custom
 - Destination Port Ranges: **8888 This is important**
 - Protocol: TCP
 - Action: Allow
 - Priority: 420
 - Name: Allow8888Inbound
- Then press **Add** button

Your Virtual Machine 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. **Go to your DNS Provider**

2. 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 VM public IP (for example, `203.0.113.25`). You can find it in VM details
- Leave **TTL** as default (300).
- Click **“Create records.”**

3. 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 VM public IP.
- Click **“Create records.”**

4. 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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