How to prepare Amazon AMI Finmars CE

Guide how to prepare web-form only installation Ubuntu 24.04 for Amazon AMI

- Getting Started

Getting Started

1) Request VM with Ubuntu 24.04

2) Install required packages

```
sudo apt update
sudo apt install -y ca-certificates curl gnupg lsb-release ntp unzip zip make

wget -qO- https://get.docker.com/ | sh

sudo usermod -aG docker $USER
newgrp docker
```

3) Create Finmars Folder

```
sudo mkdir -p /opt/finmars
sudo chown $USER:$USER /opt/finmars
```

4) Clone Finmars Community Edition

```
cd /opt/finmars
git clone https://github.com/finmars-platform/finmars-community-edition.git .
```

5) Install requirements

`pip install -r requirements.txt`

6) Create systemd service

`sudo vim /etc/systemd/system/init-setup.service`

Paste following content

```
[Unit]
Description=Finmars Initial Setup
After=network.target

[Service]
```

```
WorkingDirectory=/opt/finmars
ExecStart=/usr/bin/python3 -m community_edition.main
Restart=no

[Install]
WantedBy=multi-user.target
```

Reload Systemd

```
sudo systemctl daemon-reload
sudo systemctl enable init-setup
sudo systemctl start init-setup
```

7) Add crontab to execute step

`sudo crontab -e`

Add following line to crontab

`* * * * * cd /opt/finmars && /usr/bin/python3 -m community_edition.services.setup`

And Pull Finmars Images (for faster user insallation

```
docker pull postgres:13-alpine
docker pull rabbitmq:3.11.3-management
docker pull redis
docker pull certbot/certbot
docker pull nginx
docker pull quay.io/keycloak/keycloak:24.0.3
docker pull finmars/finmars-start-page:latest
docker pull finmars/finmars-excelgen:latest
docker pull finmars/finmars-pdfgen:latest
```

```
docker pull finmars/finmars-core:1.23.3-stable
docker pull finmars/finmars-workflow:1.23.0-stable
docker pull finmars/finmars-portal:1.23.0-stable
docker pull finmars/finmars-vue-portal:1.23.0-stable
docker pull finmars/finmars-workflow-portal:1.23.0-stable
```

When All done you need to remove keys and logout

```
sudo rm /home/ubuntu/.ssh/authorized_keys
sudo rm /root/.ssh/authorized_keys
```

You need to logout and proceed to AWS ec2 console, you need to export AMI template to us-east-1 region

Select your ec2 VM, go to Actions -> Images and Templates -> Create Image

Then wait until your AMI Exported (Go to https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1)

After that you need to make your AMI public - Edit AMI Permissions (right click on ami row) - **AMI availability** - Public
Then go to AWS Marketplace and proceed with publishing new version

Go to https://aws.amazon.com/marketplace/management/products/server