Step 1: Connecting ubuntu terminal with GUI based portainer
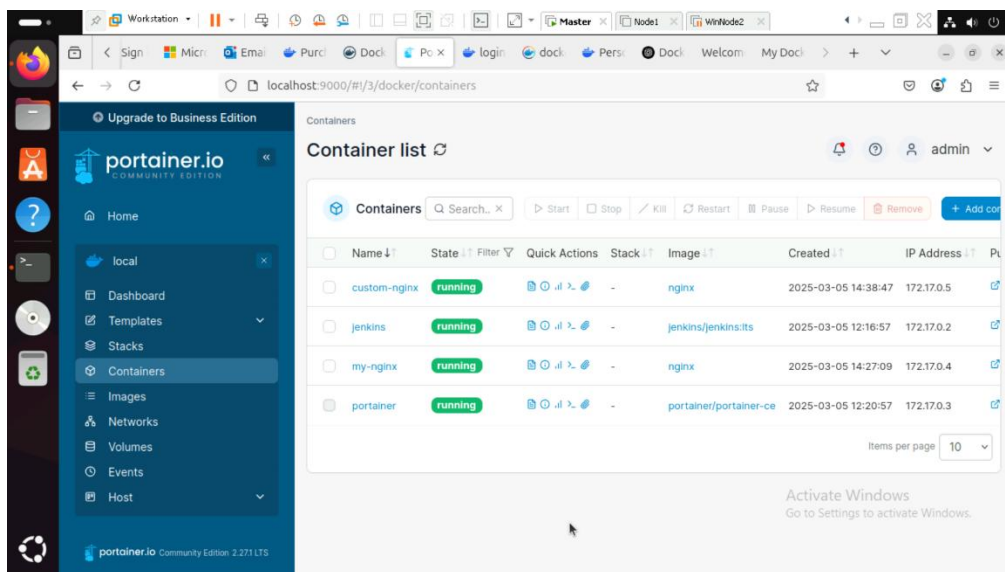
1)sudo docker pull portainer/portainer-ce

2)sudo docker run -d -p 9000:9000 --name=portainer --restart=always \

  -v /var/run/docker.sock:/var/run/docker.sock \

  -v portainer_data:/data \

  portainer/portainer-ce

3) go to http://localhost:9000 and enter password

Step 2: Deploy an Nginx Web Server with Docker

Goal: Run an Nginx server using Docker.

Prerequisites: Install Docker

1: Pull the Nginx Image

Run the following command to pull the official Nginx image:
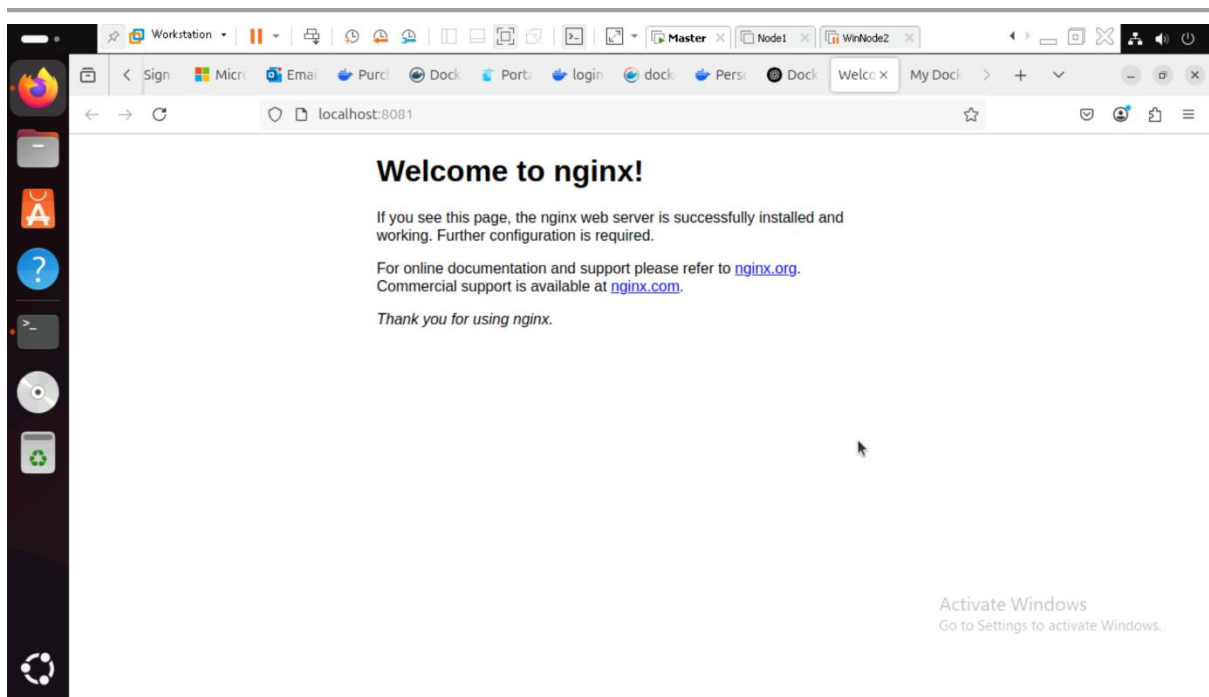
```bash
CopyEdit
docker pull nginx
```

2: Run an Nginx Container

Start a container and map port 80 to access it from your browser:

```bash
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docker run -d -p 8080:80 --name my-nginx nginx
```

Now, open `http://localhost:8080` in your browser, and you should see the Nginx welcome page.

3: Customize Nginx with Your Own HTML Page

1. Create a directory for your Nginx files:

   ```bash
   CopyEdit
   mkdir nginx_project && cd nginx_project
   ```

2. Create an `index.html` file inside this directory:

   ```html
   CopyEdit
   <!DOCTYPE html>
   <html>
   <head>
       <title>My Dockerized Nginx</title>
   </head>
   ```

```
<body>
    <h1>Hello, this is a custom Nginx page inside Docker!</h1>
</body>
</html>
```

3. Run a new Nginx container with your custom HTML page:

```
docker run -d -p 8081:80 --name custom-nginx -v
$(pwd):/usr/share/nginx/html nginx
```

4. Refresh `http://localhost:8081`, and you should see your custom page.