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Install Rancher Using Docker

1. Run the Rancher Container:

Execute the following command to deploy Rancher:

```
docker run -d --restart=unless-stopped \  
-p 80:80 -p 443:443 \  
--name rancher \  
--privileged \  
rancher/rancher:latest
```

Explanation:

-d: Run in detached mode.

--restart=unless-stopped: Restart Rancher on failure.

-p 80:80 -p 443:443: Exposes required ports.

--privileged: Grants necessary privileges.

rancher/rancher:latest: Pulls the latest Rancher image.

2. Verify Rancher is Running:

Check if the container is running properly:

```
docker ps
```

** You should see something like **

CONTAINER ID	IMAGE	PORTS	NAMES
xxxxxxxxxxxx	rancher/rancher	0.0.0.0:80->80/tcp, 0.0.0.0:443->443/tcp	rancher

If the container isn't running, check logs:

`docker logs -f rancher`

3. Access Rancher UI:

Open your browser and go to:

`https://<your_server_ip>`

or

`https://localhost`

** You may get a self-signed certificate warning; proceed to continue **

4. Set Up Rancher:

Upon first login, Rancher will ask you to set a new password.

After that, you can add Kubernetes clusters to Rancher.

Set up authentication and role-based access control.

5. Troubleshooting Errors:

1. Port Conflicts:

If port 80 or 443 is in use, try:

```
docker run -d --restart=unless-stopped \
-p 8080:80 -p 8443:443 \
--name rancher \
--privileged \
rancher/rancher:latest
```

Then access Rancher via:

`https://<your_server_ip>:8443`

2. Container Keeps Restarting:

Check logs:

```
docker logs rancher
```

Fix common issues:

** Low memory: Increase system RAM **

** Docker version outdated: Update Docker **

3. Firewall Issues:

If Rancher is not accessible, allow required ports:

```
sudo ufw allow 80/tcp
```

```
sudo ufw allow 443/tcp
```

```
sudo ufw reload
```