

RKE Installation Guide + Rancher Manager on RKE

1. System Requirements

- Ubuntu 24.04
- 2 CPU, 4GB RAM recommended
- Docker installed
- sudo access

2. Install Docker

```
curl -fsSL https://get.docker.com | sudo sh
sudo usermod -aG docker $USER
newgrp docker
```

3. Download RKE

```
wget https://github.com/rancher/rke/releases/latest/download/rke_linux-amd64
sudo mv rke_linux-amd64 /usr/local/bin/rke
sudo chmod +x /usr/local/bin/rke
```

4. Create RKE Cluster Config

```
rke config --name cluster.yml
```

Single-node cluster.yml example:

```
nodes:
- address: 127.0.0.1
  user: ubuntu
  role: [controlplane, worker, etcd]
```

5. Deploy RKE Cluster

```
rke up --config cluster.yml
```

6. Install kubectl and helm

```
sudo snap install kubectl --classic
```

```
sudo snap install helm --classic
```

7. Install Cert-Manager

```
kubectl create namespace cert-manager
```

```
kubectl apply -f  
https://github.com/cert-manager/cert-manager/releases/latest/download/cert-manager.yaml
```

8. Install NGINX Ingress

```
kubectl create namespace ingress-nginx
```

```
helm repo add ingress-nginx https://kubernetes.github.io/ingress-nginx
```

```
helm install ingress-nginx ingress-nginx/ingress-nginx -n ingress-nginx
```

9. Install Rancher Manager

```
helm repo add rancher-latest https://releases.rancher.com/server-charts/latest
```

```
helm install rancher rancher-latest/rancher \
```

```
--namespace cattle-system \
```

```
--set hostname=rancher.192.168.1.10.nip.io \
```

```
--set bootstrapPassword=admin \
```

```
--set ingress.tls.source=secret
```

10. Access Rancher

Open <https://rancher..nip.io> in browser.

Login: admin / admin.

