

RKE Installation Guide + Rancher Manager on RKE

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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.

