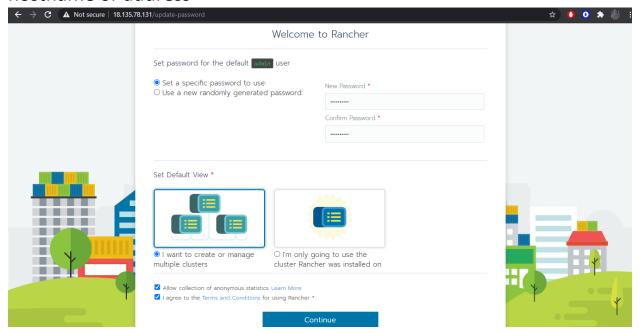
Create a k8s cluster using rancher

1. Run this command on the master machine

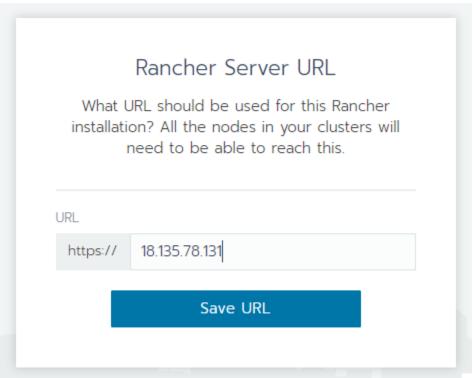
```
sudo docker run --privileged -d --restart=unless-stopped -p 80:80 -p 443:443
rancher/rancher
                     *$ sudo docker run --privileged -d --restart=unless-stopped -p 80:80 -p 443:443 rancher/rancher
Unable to find image 'rancher/rancher:latest' locally
latest: Pulling from rancher/rancher
f22ccc0b8772: Pull complete
3cf8fb62ba5f: Pull complete
e80c964ece6a: Pull complete
177bd5a25689: Pull complete
5ef514666185: Pull complete
9f884f75efba: Pull complete
d8a8a5ffce76: Pull complete
cfe7056f2841: Pull complete
f6d1920bc49d: Pull complete
f2e351c1c82e: Pull complete
c064b742b19f: Pull complete
d579b1c0565a: Pull complete
da4b2066f9a5: Pull complete
5c4756ef132d: Pull complete
b23d13f73f55: Pull complete
a48189cc9c45: Pull complete
2eaa76006605: Pull complete
87ebe97e8a3c: Pull complete
1793d4f21083: Pull complete
2e9b10fe3352: Pull complete
Digest: sha256:961980e4d64e2c9b4c6830f61b0a75b6b86695516303a2fc5e053d642e91e958
Status: Downloaded newer image for rancher/rancher:latest
aae3ebae6094cb1ea356a3e563d57823cb11fc7759129ea84563009775503742
```

2. To access the Rancher server UI, open a browser and go to the hostname or address

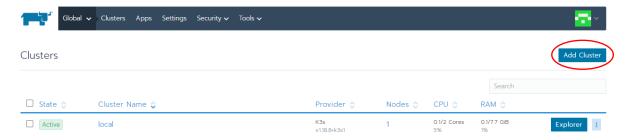


Inter a new password and accept terms and conditions then press continue

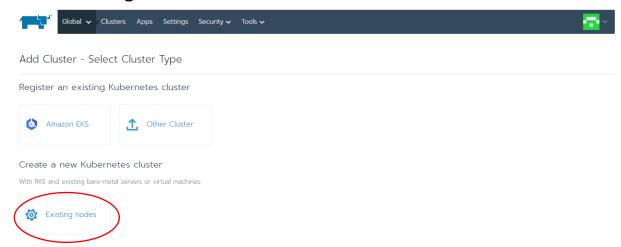
3. Inter a domain name or an ip which is accessible to all nodes and press save URL



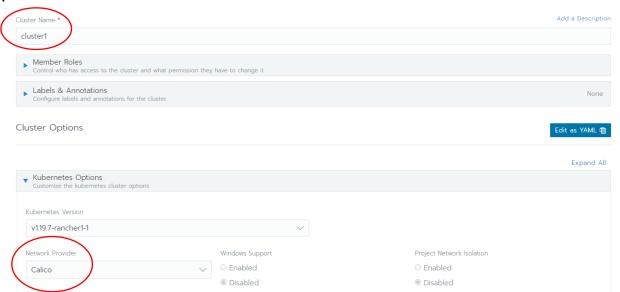
4. Click add Cluster



5. Choose existing node

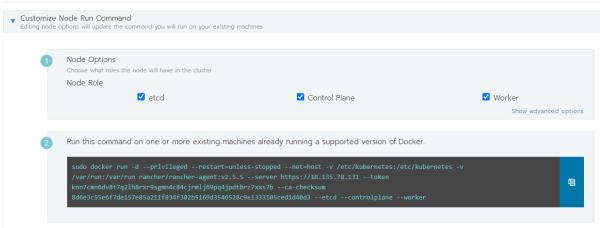


6. Enter a name for the cluster then choose calico as a network provider then click next



7. Select all node roles and then copy the command and press ok

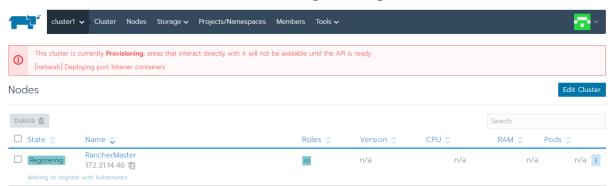




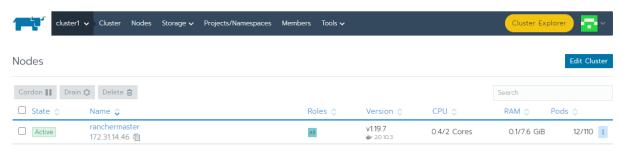
Run the command on the master machine

```
ubuntu@RancherMaster:~$ sudo docker run -d --privileged --restart=unless-stopped --net=host -v /etc/kubernetes:/etc/kubernetes -v /var/run:/var/run rancher/rancher-agent:v2.5.5 --server https://la.135.78.131 --token knn7cmn6dv8t7q2lh8rxr9sgmn4c84cjrmlj69pq4jpdtbrz7xxs7b --ca-checksum 8d6e3c55e6f 7de157ve8sa211f83uf32pb516e9d3s3d562sev9e13331095ced1dde9d3 --etcd --controlplane --worker Unable to find image 'rancher/rancher-agent:v2.5.5' locally v2.5.5: Pulling from rancher/rancher-agent f22ccce0b87772: Already exists c86c964ece6a: Already exists e86c964ece6a: Already exists e86c964ece6a: Already exists e86c964ece6a: Already exists e86c964ece6a: Pull complete c1cb6c143369: Pull complete c1a3a23f469454: Pull complete c1a3a23f469454: Pull complete c1a3a23f469454: Pull complete c1cf6c3ffffa: Pull complete
  b1f7053ffffa: Pull complete
9c095fcb9451: Pull complete
  0562c17cea34: Pull complete
Digest: sha256:ddba352d8b1389741ed0b768b85c6fbc921889d350d7c54364c87b4d5849481b
   Status: Downloaded newer image for rancher/rancher-agent:v2.5.5
4059ccfb646f39e04875e5e5f9df121737d34702a707495396a18385396a3d98
```

You should notice that the node is registering

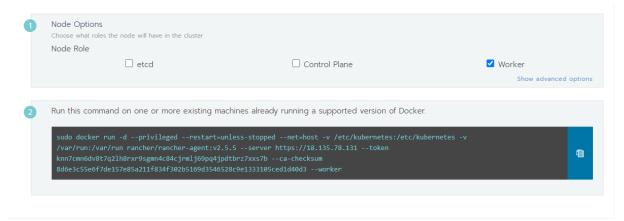


Wait until it finishes

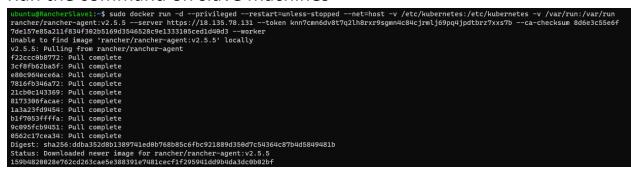


9. Now we need to register slaves to the cluster

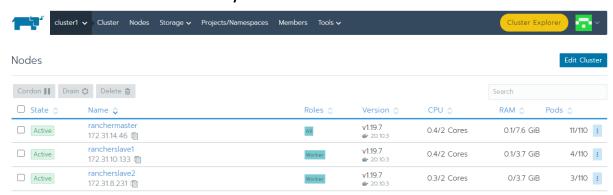
Click on edit cluster and copy the command with role worker only



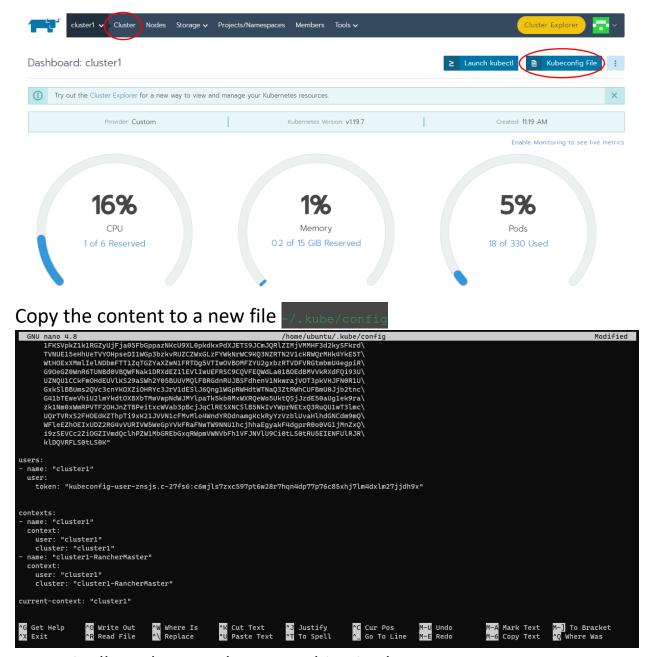
Run the command on slave machines



Wait until all nodes is ready



10. Now we need to be able to run kubectl on all nodes Make sure that kubectl is installed <u>installation guide</u> In cluster tab click kubeconfig files



11. Finally make sure that everything is ok

ubuntu@RancherMaster:~\$ kubectl get node				
NAME	STATUS	ROLES	AGE	VERSION
ranchermaster	Ready	controlplane,etcd,worker	19m	v1.19.7
rancherslave1	Ready	worker	12m	v1.19.7
rancherslave2	Ready	worker	10m	v1.19.7