**Rancher Installation Steps**

Create an Ubuntu VM with at least 4 cores and 16GB RAM.



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Run these commands:

1. **sudo apt update**



1. **sudo apt upgrade -y**



Remove any kind of Taints if present.

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You can refer this official documentation

<https://ranchermanager.docs.rancher.com/getting-started/installation-and-upgrade/install-upgrade-on-a-kubernetes-cluster>



or just follow the steps I mention below.

Prerequisites



1. Kubectl



1. Helm



Install helm using this command

1. **sudo snap install helm --classic**



Now, run this command to install rancher-stable helm repository from internet.

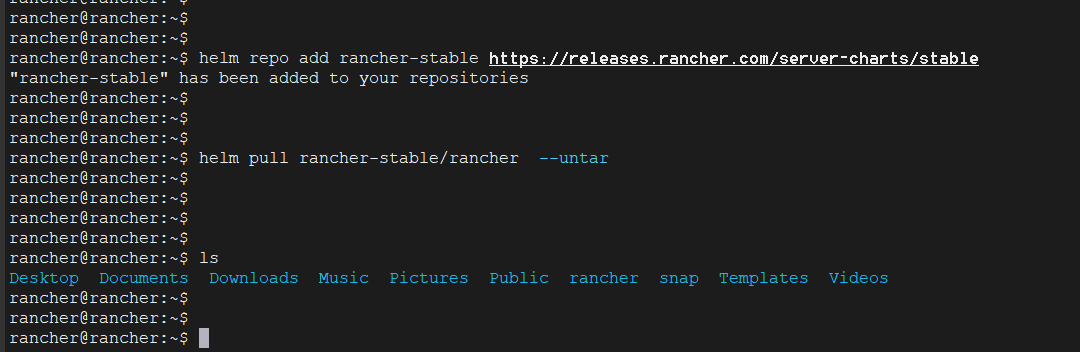
1. **helm repo add rancher-stable** [**https://releases.rancher.com/server-charts/stable**](https://releases.rancher.com/server-charts/stable)



Now, pull this repository and make it as a folder so that you can customize it.

1. **helm pull rancher-stable/rancher --untar**





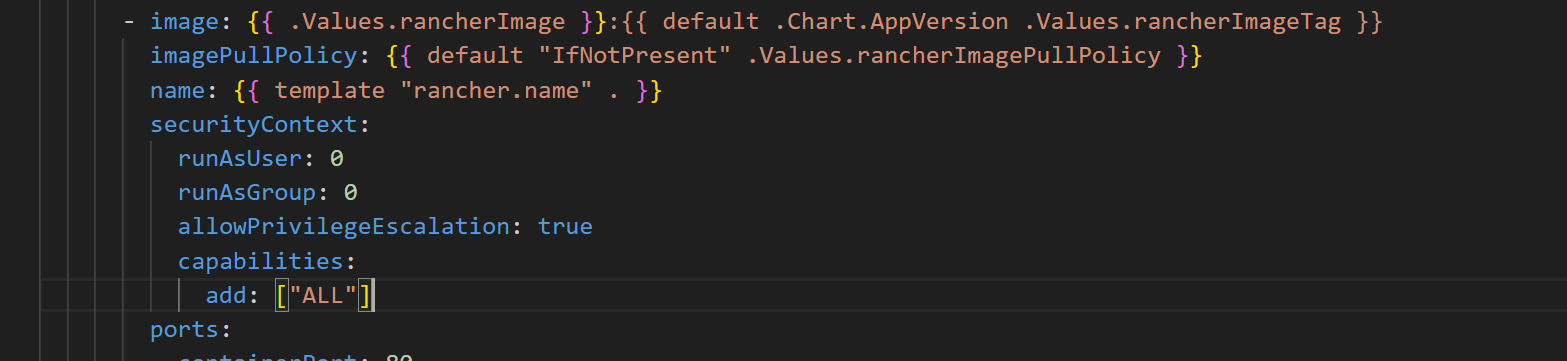
Go to **/home/rancher-demo/rancher/templates/** location by executing this command



**cd /home/rancher-demo/rancher/templates/**



Now, edit the deployment.yaml file and add this part in it.

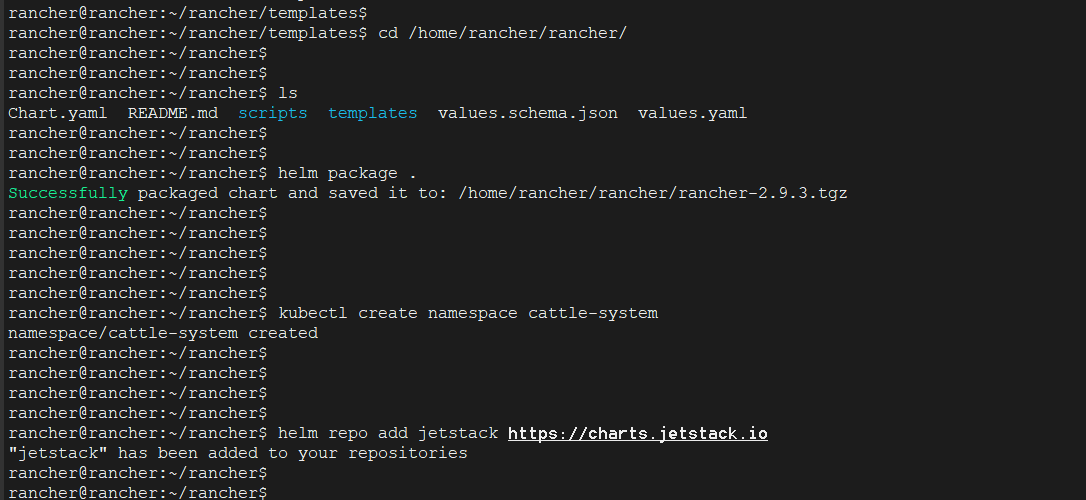




Now, move back to this location

1. **cd /home/rancher-demo/rancher/**



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These repos should be there when you execute this command

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Now, execute these commands A screenshot of a computer program

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You should get this output when you execute this command

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To be on safe side, just pull this docker image using this docker command

1. **docker pull rancher/rancher:v2.9.2**



After which execute this command  
**helm install rancher /home/rancher/rancher/rancher-2.9.2.tgz --namespace cattle-system --set hostname=rancher.my.org --set bootstrapPassword=admin**  
Make sure the location “**rancher /home/rancher/rancher/rancher-2.9.2.tgz”**  and the docker image in the below command.



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Later, execute this command to see this status

1. **kubectl -n cattle-system get deploy rancher**



Execute this command to view the services

1. **kubectl get svc -n cattle-system**



Now, execute this command and check the port of the newly created service

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Access the rancher UI from using the VM ip and the Nodeport that you can get from the above command output.

<https://10.205.211.136:31658>

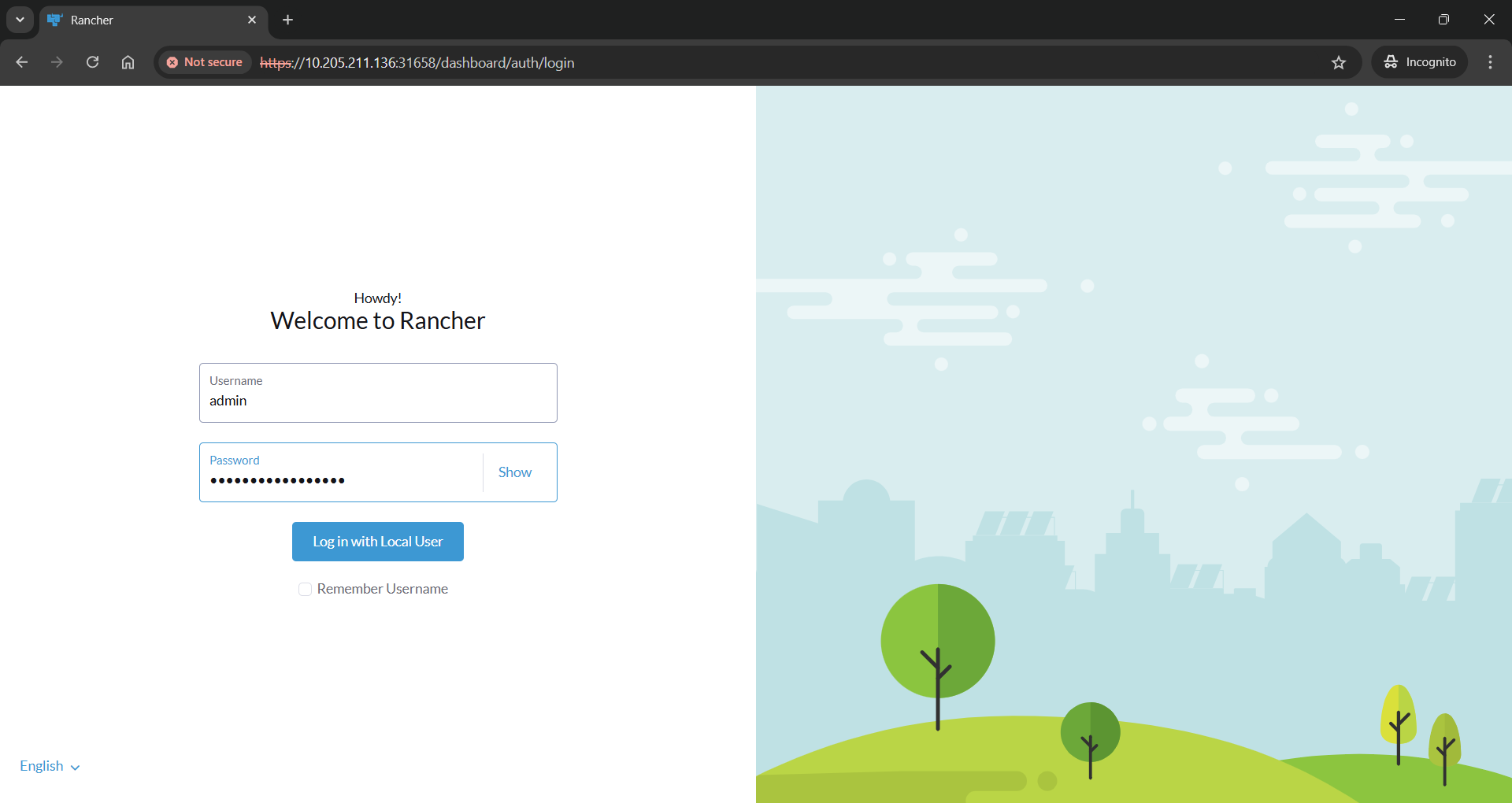


You will be prompted for bootstrap password which you should enter as **“admin”**



And enter your password so that from now on you can login to rancher UI using that password and username is **“admin”**

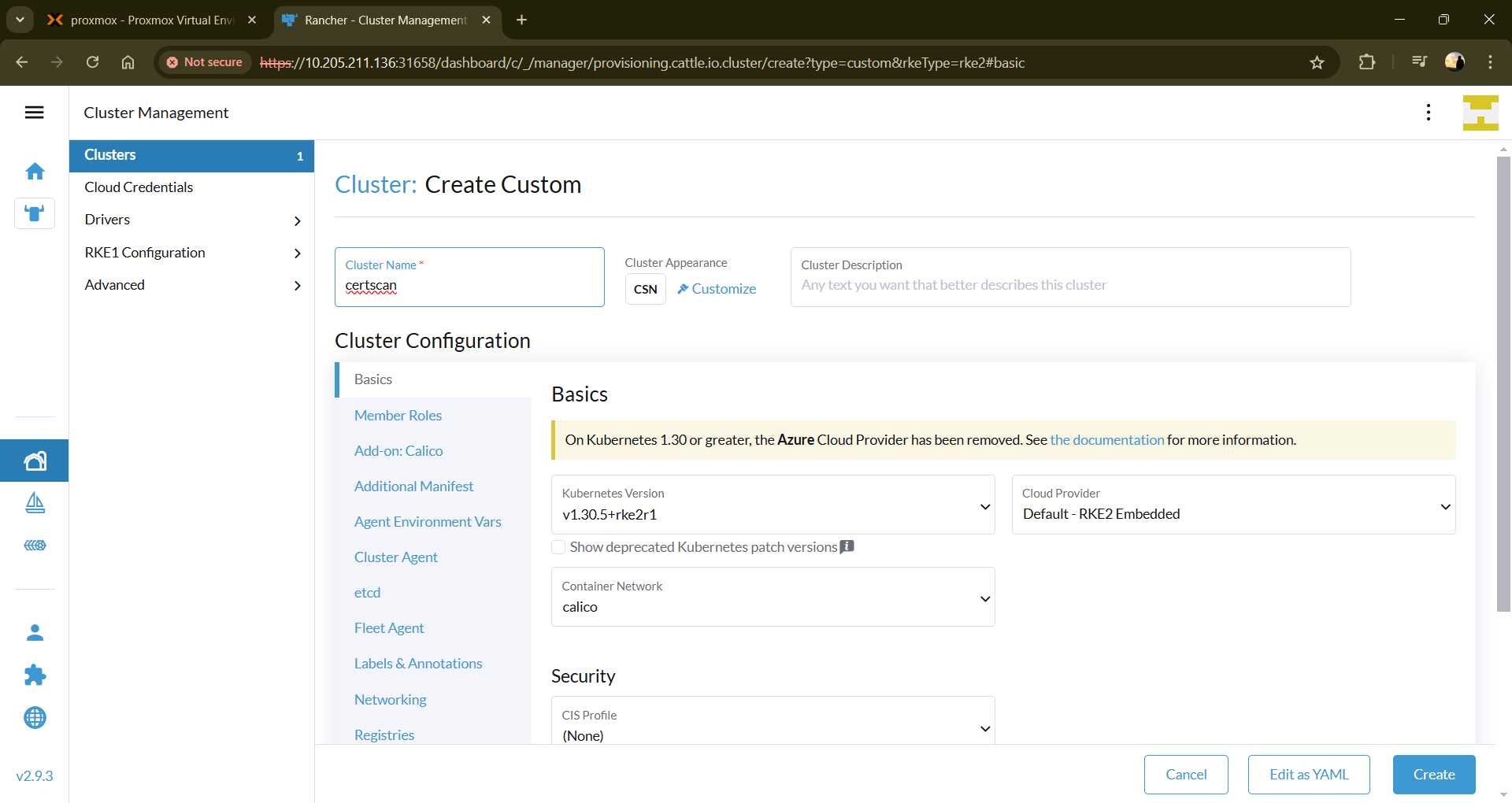




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Create a new cluster using button available

  
  
choose RKE2 from the options available and give a name.

Now, Choose if you want to configure a node as a Master or Worker

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And choose similarly for Worker as well.

If you ever get this error   
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The add **-k** argumentjust after **curl** keyword like this. A computer screen shot of a computer screen

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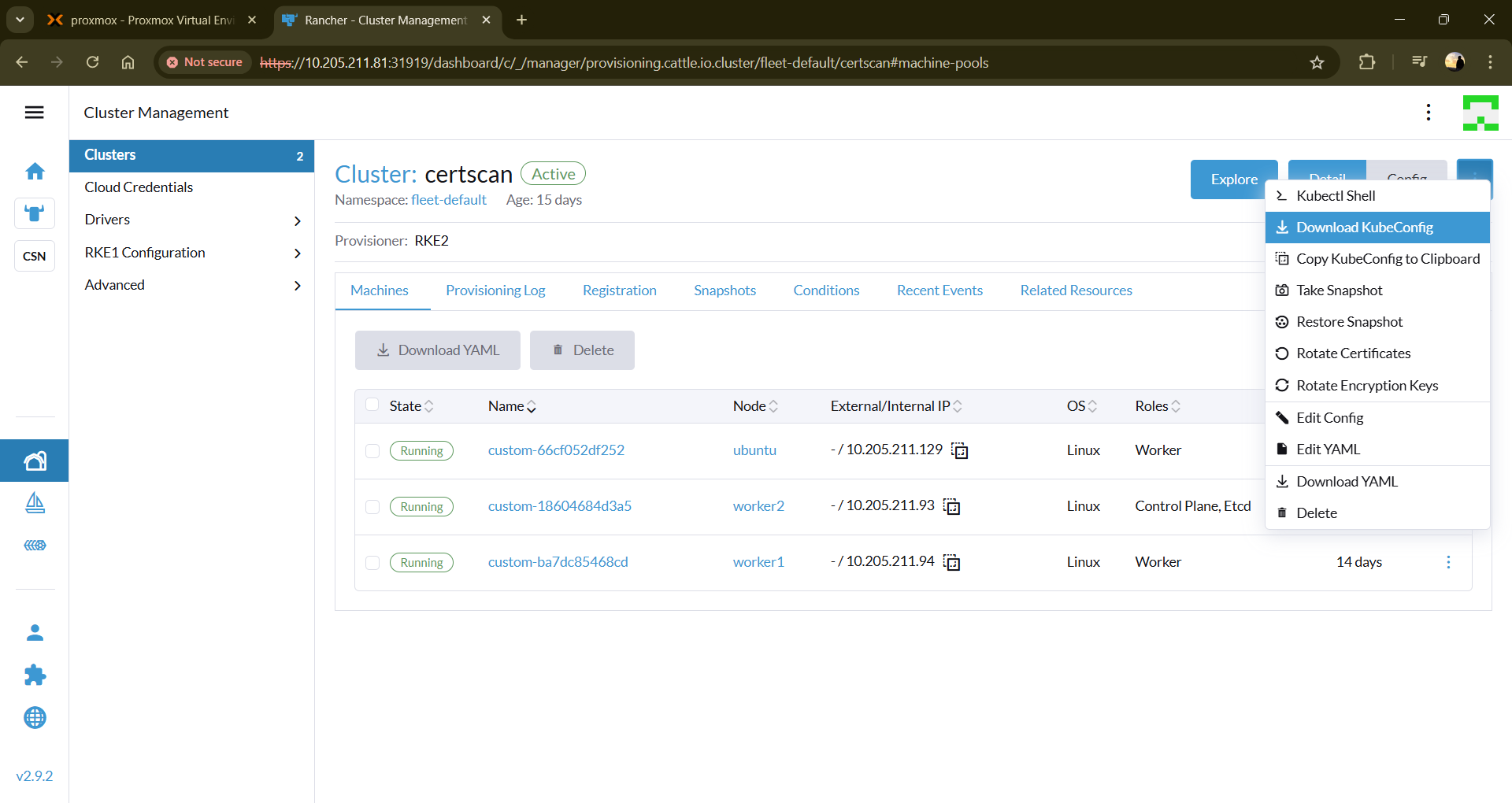


The nodes get configured and gets connected to the Rancher Cluster.

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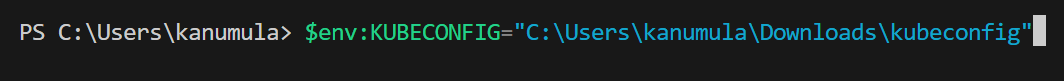
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Now, you can access this cluster from CLI by downloading the kubeconfig file.



Just configure the kubeconfig file in your system.

If it’s WINDOWS:



If it’s LINUX:

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This is how informative Rancher Cluster is:

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