Creating the Cluster Configuration File

Unit 1.2.3



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The next step is to generate the configuration file that RKE uses to install Kubernetes. This file is called cluster.yml by default.

One way to do this is to use the minimal configuration file supplied by Rancher, which shows that you can build a Kubernetes cluster with nothing more than a single node definition that contains an address, a user, and all three roles: etcd, controlplane, and worker.

Technically that makes it a single node cluster.

Because it only has a single node, it's not a *cluster* in the true sense of the word, but it's a full installation of Kubernetes, ready to go.

One of the most amazing things about RKE is its ability to redefine the cluster on the fly. If you start with a single node cluster, you can turn it into a three-node HA cluster by adding two more hosts to the configuration and running rke up again.

The other way to generate the RKE configuration is to run rke config and follow the walkthrough.

This gives you the option to set public and private addresses, which is necessary if you're deploying a cluster in someplace like AWS, where the nodes don't know their public addresses.

References

Creating the RKE Configuration File -

https://rancher.com/docs/rke/latest/en/installation/#creating-the-cluster-configuration-file