Install MicroK8s on Linux

MicroK8s installs a single node, CNCF-certified Kubernetes cluster in seconds. MicroK8s is a lightweight, zero-ops Kubernetes for Linux, Windows and macOS. A single command installs all upstream Kubernetes services and their dependencies. With support for x86 and ARM64, MicroK8s runs from local workstations to the edge and IoT appliances.

1. Install MicroK8s on Linux

```
sudo snap install microk8s --classic
```

2. Add your user to the microk8s admin group

MicroK8s creates a group to enable seamless usage of commands which require admin privilege. Use the following commands to join the group:

```
sudo usermod -a -G microk8s $USER
sudo chown -f -R $USER ~/.kube
```

You will also need to re-enter the session for the group update to take place:

```
su - $USER
```

3. Check the status while Kubernetes starts

```
microk8s status --wait-ready
```

4. Turn on the services you want

```
microk8s enable dashboard dns ingress
```

Try `microk8s enable --help` for a list of available services and optional features. `microk8s disable ‹name›` turns off a service.

5. Start using Kubernetes

```
microk8s kubectl get all --all-namespaces
```

If you mainly use MicroK8s you can make our kubectl the default one on your command-line with `alias mkctl="microk8s kubectl"`. Since it is a standard upstream kubectl, you can also drive other Kubernetes clusters with it by pointing to the respective kubeconfig file via the "--kubeconfig" argument.

6. Access the Kubernetes dashboard

```
microk8s dashboard-proxy
```

7. Start and stop Kubernetes

Kubernetes is a collection of system services that talk to each other all the time. If you don't need them running in the background then you will save battery by stopping them. `microk8s start` and `microk8s stop` will do the work for you

---

Revision #2
Created 1 December 2024 06:56:14 by Ahmad
Updated 1 December 2024 08:40:22 by Ahmad