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1. Open a terminal on your Ubuntu machine.
2. Update your system's package list by running the following command:

```
sudo apt update
```

3. Install MicroK8s using snap, which is a package management system on Ubuntu:

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

The `--classic` flag is used to enable classic snap confinement, allowing MicroK8s to access the host system.

4. After the installation is complete, add your user to the `microk8s` group so that you can run MicroK8s commands without using `sudo`:

```
sudo usermod -a -G microk8s <your-username>
```

Replace ``<your-username>`` with your actual username.

5. To enable required permissions for your user, run the following command:

```
sudo chown -f -R <your-username> ~/.kube
```

6. You will need to log out and log back in for the group changes to take effect. So, close the terminal and open a new one.

7. Verify that MicroK8s is up and running by checking the status:

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

This command will wait until all the MicroK8s services are running.

8. To enable some useful add-ons, you can use the following commands:

```
microk8s enable dns
```

```
microk8s enable hostpath-storage
```

9. install Kubernetes dashboard, see next page

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