# MicroShift AIO

## For Testing and Development of OpenShift Applications

https://microshift.io/docs/getting-started/#using-microshift-for-application-development

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# MicroShift AIO

- `command -v setsebool >/dev/null 2>&1 || sudo setsebool -P container_manage_cgroup true`
  or
- `sudo setenforce 0 && sudo sed -i --follow-symlinks 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/sysconfig/selinux`

1. **`sudo podman run -d --rm \`**
   **`--name microshift \`**
   **`--privileged \`**
   **`-v microshift-data:/var/lib \`**
   **`-p 6443:6443 \`**
   **`quay.io/microshift/microshift-aio:latest`**

**rootless containers with volumes:** https://www.tutorialworks.com/podman-rootless-volumes/

# MicroShift AIO

OR

1. Launch podman with systemd!

   **sudo curl -o /etc/systemd/system/microshift.service https://raw.githubusercontent.com/redhat-et/microshift/main/packaging/systemd/microshift-aio.service**

   **sudo systemctl daemon-reload**

   **sudo systemctl start microshift**

# MicroShift AIO

2. `sudo podman exec -ti microshift oc get all -A`

   OR

   ```
   sudo podman cp microshift:/var/lib/microshift/resources/kubeadmin/kubeconfig ./kubeconfig
   sudo chown $(whoami): kubeconfig
   export KUBECONFIG=$(pwd)/kubeconfig
   ```

# MicroShift AIO

3. **oc get pods -A**
   **oc get namespaces**
   **oc get deployments**
   **oc apply -f myapp.yaml**
   or kubectl, run whatever

Note: kubectl and oc are included in the container, you may want/need to install oc on your host, if so, here's how!

```
curl -o oc.tar.gz https://mirror.openshift.com/pub/openshift-v4/clients/oc/latest/linux/oc.tar.gz
tar -xzvf oc.tar.gz
sudo install -t /usr/local/bin {kubectl,oc}
```

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## Cleanup

```
sudo podman stop microshift
```

- or

```
sudo systemctl stop microshift # if running as systemd service


# when done with the cluster
sudo podman volume rm microshift-data
```

# MicroShift AIO

That’s it, have fun!!

https://microshift.io/