



- Automatic host filesystem sharing
- Automatic port forwarding
- Built-in integration for containerd

(and Docker, Podman, Kubernetes, Apptainer, ...)

```
$ brew install lima
$ limactl start
$ lima nerdctl run -p 80:80 nginx
```

How it works



Hypervisor
 QEMU (default) or Virtualization.framework

- Intel-on-ARM binary executor
 qemu-user (default) or Rosetta 2 (faster)
- Filesystem sharing
 reverse sshfs (default), virtio-9p-pci, or virtiofs (faster)

How it works



Network

QEMU's usermode networking (default) or socket_vmnet (for VM-to-VM communication, etc. with sudo)

Port forwarding

Implemented by watching /proc/net/tcp, iptables, and Kubernetes services

Built-in templates



Distros

```
almalinux, alpine, archlinux, centos-stream, debian, Prom Comopensuse, oraclelinux, rocky, ubuntu, ...

North America 2021
```

Container engines

```
apptainer, docker, docker-rootful, podman, podman-rootful, ...
```

Container orchestration

```
faasd, k3s, k8s, nomad
```

```
$ limactl start --name=default template://docker
```

Recent updates

v0.13: Lima joined the CNCF Sandbox





 v0.14: Added the support for Virtualization.framework, virtiofs, and Rosetta 2 for Linux

```
$ limactl start --name=default template://experimental/vz
```

v0.15: In-place YAML modification using yq expressions (similar to jq)

```
$ limactl start --set='.cpus = 2 | .memory = "2GiB"'
```

Roadmap (tentative)

 Enable VM-to-VM communication without the host root privilege (PR #1383)

Support connecting local VMs to laaS networks

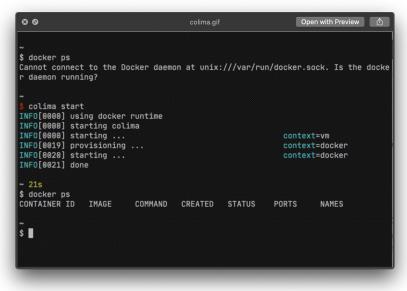
Switch the default hypervisor to Virtualization.framework

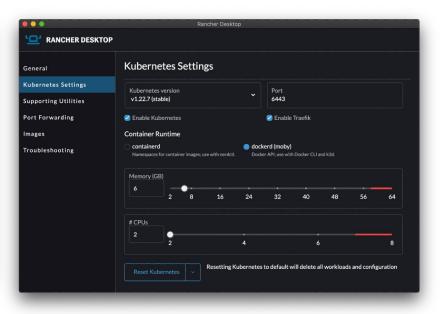
 Switch the default filesystem driver to virtiofs (for Virtualization.framework) and virtio-9p-pci (for QEMU)

Third party FLOSS projects based on Lima

Lima-GUI	https://github.com/afbjorklund/lima-gui	
Colima	https://github.com/abiosoft/colima	PromCon
Rancher Desktop	https://rancherdesktop.io/	North America zi
Finch	https://github.com/runfinch/finch	



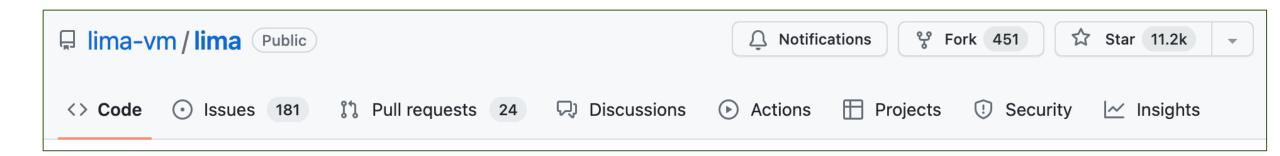




Join the community!

GitHub: https://github.com/lima-vm/lima/





• Slack: https://slack.cncf.io/ (Channel: #lima)