

podman ☐☐☐☐

1. docker ☐ ☐☐☐ ☐☐☐

1. podman-docker   docker    docker 
  .
2.      podman   .

```
$> yum install podman-docker -y
```

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podman-docker

noarch 3.3.1-9.0.1.module+el8.5.0+20416+d687fed7 ol8_appstream 56 k

=====

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 1

□□ □□□□ □□ : 56 k

  : 230

podman-docker-3.3.1-9.0.1.module+el8.5.0+20416+d 288 kB/s | 56 kB 00:00

284 kB/s | 56 kB 00:00

3. docker ☐ socket api ☐ ☐ ☐ podman-docker ☐ ☐ ☐ ☐

/var/run/docker.sock ☐ /var/run/podman/podman.sock ☐ ☐ ☐ ☐ ☐

docker-py, docker-compose 可以调用 docker api 来管理容器。

- podman 可以调用 docker 的 API，所以，安装 podman，安装 docker，安装 docker swarm 都可以。

2. Rootless

- 安装 podman 需要安装一些依赖包。(root - /var/lib/containers/storage, non root - \$HOME/.local/share/containers/storage)
- rootless 模式下，1024 以下的端口只能由 root 用户监听。(tcp/80 端口被 apache 占用，tcp/80 端口被占用，所以不能运行 httpd)
- 1024 以下的端口只能由 root 用户监听，所以，需要配置 iptables 规则，允许非 root 用户监听 80 端口。(iptables 规则)

```
$> echo 80 > /proc/sys/net/ipv4/ip_unprivileged_port_start
```

- 8.1 安装 rootless Containers 需要安装一些依赖包，安装 podman，安装 docker，安装 docker swarm。

```
$> podman pull docker.io/library/httpd
Trying to pull docker.io/library/httpd:latest...
Getting image source signatures
Copying blob 5eb5b503b376 done
Copying blob 10c4d45228bf done
Copying blob a43a76ccc967 done
Copying blob 942bd346e7f7 done
Copying blob cdb155854ae6 done
Copying config a8ea074f45 done
Writing manifest to image destination
Storing signatures
a8ea074f4566addcd01f9745397f32be471df4a4abf200f0f10c885ed14b1d28
[user@test~]$ docker image ls
Emulate Docker CLI using podman. Create /etc/containers/nodocker to quiet msg.
REPOSITORY          TAG         IMAGE ID      CREATED      SIZE
docker.io/library/httpd latest      a8ea074f4566 11 days ago 148 MB
```

3. 配置

- registries.conf 文件配置，配置镜像仓库，配置镜像仓库，配置镜像仓库。

```
$> vi /etc/containers/registries.conf
...
unqualified-search-registries = ["container-registry.oracle.com", "docker.io",
"container.test.com"]
...
```

2. test.com TLS pull

```
$> vi /etc/containers/registries.conf
...
[[registry]]
location="container.test.com"
insecure = true
...
```

3. registry blocked

```
$> vi /etc/containers/registries.conf
...
[[registry]]
location="container.test.com"
blocked = true
...
```

4. skopeo httpd

1. skopeo inspect docker://docker.io/library/httpd:latest

2. httpd container

```
# skopeo inspect docker://docker.io/library/httpd:latest
{
  "Name": "docker.io/library/httpd",
  "Digest":
"sha256:5cc947a200524a822883dc6ce6456d852d7c5629ab177dfbf7e38c1b4a647705",
  "RepoTags": [
    "2",
    "2-alpine",
    "2-alpine3.13",
    "2-alpine3.14",
    "2-alpine3.15",
    "2-bullseye",
```

"2-buster",
"2.2",
"2.2-alpine",
"2.2.29",
"2.2.31",
"2.2.31-alpine",
"2.2.32",
"2.2.32-alpine",
"2.2.34",
"2.2.34-alpine",
"2.4",
"2.4-alpine",
"2.4-alpine3.13",
"2.4-alpine3.14",
"2.4-alpine3.15",
"2.4-bullseye",
"2.4-buster",
"2.4.10",
"2.4.12",
"2.4.16",
"2.4.17",
"2.4.18",
"2.4.20",
"2.4.23",
"2.4.23-alpine",
"2.4.25",
"2.4.25-alpine",
"2.4.27",
"2.4.27-alpine",
"2.4.28",
"2.4.28-alpine",
"2.4.29",
"2.4.29-alpine",
"2.4.32",
"2.4.32-alpine",
"2.4.33",
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"2.4.34",
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"2.4.38",
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"2.4.41-alpine",
"2.4.43",
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"2.4.46",
"2.4.46-alpine",
"2.4.47",
"2.4.47-alpine",
"2.4.48",
"2.4.48-alpine",
"2.4.48-alpine3.13",
"2.4.48-alpine3.14",
"2.4.48-buster",
"2.4.49",
"2.4.49-alpine",
"2.4.49-alpine3.14",
"2.4.49-buster",
"2.4.50",
"2.4.50-alpine",
"2.4.50-alpine3.14",
"2.4.50-buster",
"2.4.51",
"2.4.51-alpine",
"2.4.51-alpine3.14",
"2.4.51-alpine3.15",
"2.4.51-bullseye",
"2.4.51-buster",
"2.4.52",
"2.4.52-alpine",
"2.4.52-alpine3.15",
"2.4.52-bullseye",
"alpine",
"alpine3.13",

```
"alpine3.14",
"alpine3.15",
"bullseye",
"buster",
"latest"
],
"Created": "2022-01-26T08:38:51.175633696Z",
"DockerVersion": "20.10.7",
"Labels": null,
"Architecture": "amd64",
"Os": "linux",
"Layers": [
  "sha256:5eb5b503b37671af16371272f9c5313a3e82f1d0756e14506704489ad9900803",
  "sha256:a43a76ccc96739928c7e884f2210dde01ae5b1fd8822f8cdd56e6ba64ec3125a",
  "sha256:942bd346e7f719d26e022dfc42eea7e1fa5cf9ad60ec80ed0ef79ded05288be6",
  "sha256:cdb155854ae6a9e25834459a7c9dfc7be157a2ebfca5adbdb036aeea43ce3128",
  "sha256:10c4d45228bf56285a1e2c828d60e34d8413ee80e1abd738ef190be843d9dc1e"
],
"Env": [
  "PATH=/usr/local/apache2/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
  "HTTPD_PREFIX=/usr/local/apache2",
  "HTTPD_VERSION=2.4.52",
  "HTTPD_SHA256=0127f7dc497e9983e9c51474bed75e45607f2f870a7675a86dc90af6d572f5c9",
  "HTTPD_PATCHES="
]
```

Revision #1

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