

podman ☐☐☐☐

1. docker

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

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

1:40:24 : 2022 02 07 () 12 21 09 .
 .

podman-docker

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



$\square \square$ 1 $\square \square \square$

 : 56 k

$\square\square\square \quad \square\square : 230$

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 root 权限，所以，安装 podman 需要 root 权限。(root - /var/lib/containers/storage, non root - \$HOME/.local/share/containers/storage)
- rootless 模式下，1024 以下的端口，需要 root 权限才能使用。(tcp/80 端口，apache 需要 root 权限才能使用，tcp/80 端口，需要 root 权限才能使用)
- 1024 以下的端口，需要 root 权限才能使用，所以，安装 podman 需要 root 权限，安装 podman 需要 root 权限。(安装 podman 需要 root 权限)

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

- 8.1 安装 rootless Containers 需要安装 podman，安装 podman 需要 root 权限，安装 podman 需要 root 权限。(rootless 模式下，安装 podman 需要 root 权限)

```
$> podman pull docker.io/library/httpd
Trying to pull docker.io/library/httpd:latest...
Getting image source signatures
Copying blob 5eb5b503b376 done
Copying blob 10c4d45228bf done
Copying blob a43a76ccc967 done
Copying blob 942bd346e7f7 done
Copying blob cdb155854ae6 done
Copying config a8ea074f45 done
Writing manifest to image destination
Storing signatures
a8ea074f4566addcd01f9745397f32be471df4a4abf200f0f10c885ed14b1d28
[user@test~]$ 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，配置容器镜像仓库，配置容器镜像仓库，配置容器镜像仓库，配置容器镜像仓库。

```
$> 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. pull 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 pull

```
# 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",
"2.4.33-alpine",
"2.4.34",
"2.4.34-alpine",
"2.4.35",

"2.4.35-alpine",
"2.4.37",
"2.4.37-alpine",
"2.4.38",
"2.4.38-alpine",
"2.4.39",
"2.4.39-alpine",
"2.4.41",
"2.4.41-alpine",
"2.4.43",
"2.4.43-alpine",
"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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