# Setup up container support with gitlab-runner

Make sure cockpit in installed.

`sudo dnf -y cockpit`

Cockpit runs on localhost:9090

**Only install podman or docker-ce not both.**

## Create and upload build containers to gitlab registry

User podman or docker to create the images to be uploaded.

```
podman | docker login gitlab01.brunoe.net:5050
podman | docker build -t gitlab01.brunoe.net:5050/ebruno/softwaretrace-ostools/rhel10rpmbu
podman | docker push gitlab01.brunoe.net:5050/ebruno/softwaretrace-ostools/rhel10rpmbuild
podman | docker build -t gitlab01.brunoe.net:5050/ebruno/softwaretrace-ostools/archlinux
podman | docker push gitlab01.brunoe.net:5050/ebruno/softwaretrace-ostools/archlinux;
```

## Setup gitlab-runner to use podman

Install podman before gitlab-runner. * RHEL10 sudo dnf -y install podman
cockpit-podman

## Setup gitlab-runner to use docker

Install docker before gitlab-runner

Installing Docker CE

## Installing gitlab-runner

Installing Gitlab Runner doc

Once gitlab-runner is installed you need to do some some addition podman
setup.

```
sudo -u gitlab-runner systemctl --user --now enable podman.socket
sudo -u gitlab-runner systemctl --user --now start podman.socket
loginctl enable-linger gitlab-runner # Replace 'gitlab-runner' with your runner user if dif
sudo -u gitlab-runner systemctl status --user podman.socket

  * podman.socket - Podman API Socket
   Loaded: loaded (/usr/lib/systemd/user/podman.socket; enabled; preset: disabled)
   Active: active (listening) since Mon 2025-09-08 15:40:05 PDT; 6h left
 Invocation: 09a020fc81e24207bac806dc84bec9a1
 Triggers: * podman.service
     Docs: man:podman-system-service(1)
   Listen: /run/user/975/podman/podman.sock (Stream) # This goes in the config.toml file.
```

```
      CGroup: /user.slice/user-975.slice/user@975.service/app.slice/podman.socket
```

## Sample config.tmpl

On RHEL 10 this located in /etc/gitlab-runner Items to note 975 is gitlab-runner
uid. Add a docker runner to you configuration Add this to the config.toml file.

```
[[runners]]
  name = "rhel10podman"
  url = "<your gitlab server>"
  id = 38
  token = "<a runner token>"
  token_obtained_at = 2025-09-06T21:05:05Z
  token_expires_at = 0001-01-01T00:00:00Z
  executor = "docker"
  [runners.cache]
    MaxUploadedArchiveSize = 0
    [runners.cache.s3]
    [runners.cache.gcs]
    [runners.cache.azure]
  [runners.docker]
    host = "unix:///run/user/975/podman/podman.sock"
    tls_verify = false
    image = "docker.io/library/redhat/ubi10:latest"
    privileged = false
    disable_entrypoint_overwrite = false
    oom_kill_disable = false
    pull_policy = ["if-not-present"]
    disable_cache = false
    volumes = ["/var/cache/gitlab-runner/cache:/cache", "/run/user/975/podman/podman.sock:/
    network_mode = "bridge"
    shm_size = 0
    network_mtu = 0
```

Restart the gitlab-runner service.

```
 sudo systemctl restart gitlab-runner
```

Verify the runners.

```
  sudo gitlab-runner list
  Runtime platform                              arch=amd64 os=linux pid=7344 revision=
  Listing configured runners                    ConfigFile=/etc/gitlab-runner/config.t
  rhel10server                                  Executor=shell Token=<a token> URL=htt
  rhel10podman                                  Executor=docker Token=<a token> URL=ht
```

Sample complete config.toml with shell runner and podman runner

```
 concurrent = 1
```

```
check_interval = 0
connection_max_age = "15m0s"
shutdown_timeout = 0

[session_server]
  session_timeout = 1800

[[runners]]
  name = "rhel10server"
  url = <your gitlab server url>"
  id = 31
  token = "<a runner token>"
  token_obtained_at = 2025-09-02T21:59:17Z
  token_expires_at = 0001-01-01T00:00:00Z
  executor = "shell"
  [runners.cache]
    MaxUploadedArchiveSize = 0
    [runners.cache.s3]
    [runners.cache.gcs]
    [runners.cache.azure]

[[runners]]
  name = "rhel10podman"
  url = <your gitlab server url>"
  id = 38
  token = "<a runner token"
  token_obtained_at = 2025-09-06T21:05:05Z
  token_expires_at = 0001-01-01T00:00:00Z
  executor = "docker"
  [runners.cache]
    MaxUploadedArchiveSize = 0
    [runners.cache.s3]
    [runners.cache.gcs]
    [runners.cache.azure]
  [runners.docker]
    host = "unix:///run/user/975/podman/podman.sock"
    tls_verify = false
    image = "docker.io/library/redhat/ubi10:latest"
    privileged = false
    disable_entrypoint_overwrite = false
    oom_kill_disable = false
    pull_policy = ["if-not-present"]
    disable_cache = false
    volumes = ["/var/cache/gitlab-runner/cache:/cache", "/run/user/975/podman/podman.sock:/
    network_mode = "bridge"
    shm_size = 0
```

```
network_mtu = 0
```