RedHat Certified System Administrator (RHEL 9)

SUMMARY

Create a Rootless Container (Example with httpd)

1. Make sure container-tools is installed
   - `yum install container-tools`
2. Connect With ssh to the user that will run the container
   - `ssh user@127.0.0.1'`
3. Login to the Red Hat Container Registry
   - `podman login registry.redhat.io`
4. Pull the image httpd from the Red Hat Container Registry
   - `podman pull registry.redhat.io/rhel9/httpd-24`
5. Run a rootless container from the image httpd
   - `podman run -d --name httpd -p 8080:8080 -v ~/html:/var/www/html:z registry.redhat.io/rhel9/httpd-24`
     + -d: Run the container in the background (detached)
     + --name: Name of the container
     + -p: Map the port 8080 on the host to the port 8080 in the container
     + -v: Map the directory ~/html on the host to the directory /var/www/html in the container
6. Check the status of the container
   - `podman ps`
7. Make and cd to the directory ~/.config/systemd/user
   - `mkdir -p ~/.config/systemd/user`
   - `cd ~/.config/systemd/user`
8. Make the current user linger
   - `loginctl enable-linger <username/UID>`
     + Linger: Allow the user to run services when the user is not logged in.
9. Create a service file httpd.service using podman generate

- `podman generate systemd --name httpd --files`
    + Make sure there is a container named httpd
10. Enable & Start the rootless container as a service
    - `systemctl --user enable --now container-[Conatiner-Name].service`
11. Do Not remove the container, you may stop it (But not remove it)
    - `podman stop httpd`
12. Add the port to the firewall
    - `firewall-cmd --add-port=8080/tcp --permanent`
    - `firewall-cmd --reload`