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Podman Quadlet

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systemd
systemd          systemd
systemd          RHEL9 Podman 4.6          Quadlet
podman/docker cli

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```

test-debian:~# podman run -d --name nginx -v
/data/html:/usr/share/nginx/html:ro -p 80:80 -p 443:443
docker.io/library/nginx

test-debian:~# podman ps -a
CONTAINER ID   IMAGE                                COMMAND                                CREATED
STATUS        PORTS                                NAMES
10593d057410   docker.io/library/nginx:latest       nginx -g daemon o... 3
seconds ago   Up 3 seconds ago   0.0.0.0:80->80/tcp, 0.0.0.0:443->443/tcp
nginx

```

systemd generate

systemd

```

test-debian:~# podman generate systemd nginx > /etc/systemd/system/podman-
nginx.service
test-debian:~# systemctl daemon-reload
test-debian:~# systemctl status podman-nginx.service
○ podman-nginx.service - Podman
container-10593d05741041022e1f46a19054f1a8ef71ba7a307cea3e4caa1f89ceb8edfa.s
ervice
  Loaded: loaded (/etc/systemd/system/podman-nginx.service; disabled;
  preset: enabled)
  Active: inactive (dead)
  Docs: man:podman-generate-systemd(1)

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systemd quadlet

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podman 4.6          systemd generate

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[root@kvm33 ~]# podman generate systemd nginx > /etc/systemd/system/podman-
nginx.service

DEPRECATED command:

```

It is recommended to use Quadlets for running containers and pods under systemd.

Please refer to podman-systemd.unit(5) for details.

podman 4.6 Quadlet systemd

quadlet

- root : /usr/share/containers/systemd/
/etc/containers/systemd/
- rootless : \$HOME/.config/containers/systemd/,
\$XDG_CONFIG_HOME/containers/systemd/,
/etc/containers/systemd/users/\${UID} /etc/containers/systemd/users/

```
[root@kvm33 systemd]# cat > /etc/containers/systemd/nginx.container
# nginx container quadlet
[Unit]
Description=The nginx container
After=local-fs.target network.target

[Container]
#
Image=docker.io/library/nginx:latest

# ( 80, 443 80, 443 )
PublishPort=80:80
PublishPort=443:443

# ( /data/html /usr/share/nginx/html )
Volume=/data/html:/usr/share/nginx/html:ro

[Install]
# Start by default on boot
WantedBy=multi-user.target default.target
```

systemctl daemon-reload systemd service

```
[root@kvm33 systemd]# systemctl daemon-reload

[root@kvm33 systemd]# journalctl -f
Sep 27 12:14:06 kvm33 systemd[1]: Reloading.
Sep 27 12:14:06 kvm33 systemd-rc-local-generator[103106]: /etc/rc.d/rc.local
is not marked executable, skipping.
```

quadlet 가

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[root@kvm33 systemd]# journalctl -f
Sep 27 11:22:58 kvm33 systemd-rc-local-generator[101427]: /etc/rc.d/rc.local
is not marked executable, skipping.
Sep 27 11:22:58 kvm33 systemd[101403]: /usr/lib/systemd/system-
generators/podman-system-generator failed with exit status 1.
Sep 27 11:24:32 kvm33 systemd[1]: Reloading.
Sep 27 11:24:32 kvm33 quadlet-generator[101492]: converting
"nginx.container": unsupported key 'Detach' in group 'Container' in
/etc/containers/systemd/nginx.container
Sep 27 11:24:32 kvm33 systemd-rc-local-generator[101512]: /etc/rc.d/rc.local
is not marked executable, skipping.
Sep 27 11:24:32 kvm33 systemd[101488]: /usr/lib/systemd/system-
generators/podman-system-generator failed with exit status 1.
Sep 27 11:24:47 kvm33 systemd[1]: Reloading.
Sep 27 11:24:47 kvm33 quadlet-generator[101525]: converting
"nginx.container": unsupported key 'RestartPolicy' in group 'Container' in
/etc/containers/systemd/nginx.container
Sep 27 11:24:47 kvm33 systemd-rc-local-generator[101544]: /etc/rc.d/rc.local
is not marked executable, skipping.
Sep 27 11:24:47 kvm33 systemd[101521]: /usr/lib/systemd/system-
generators/podman-system-generator failed with exit status 1.
```

```
[root@kvm33 systemd]# systemctl status nginx
○ nginx.service - The nginx container
   Loaded: loaded (/etc/containers/systemd/nginx.container; generated)
   Active: inactive (dead)
[root@kvm33 systemd]# systemctl restart nginx
[root@kvm33 systemd]# systemctl status nginx
● nginx.service - The nginx container
   Loaded: loaded (/etc/containers/systemd/nginx.container; generated)
   Active: active (running) since Fri 2024-09-27 12:17:04 KST; 3s ago
 Main PID: 103363 (conmon)
    Tasks: 26 (limit: 3296240)
   Memory: 21.0M
      CPU: 165ms
   CGroup: /system.slice/nginx.service
           └─libpod-payload-
de01f8a650ae6d7e0893c6e3d399d219af3c44ebad4f73bda6615d477d210bf2
           │ └─103365 "nginx: master process nginx -g daemon off;"
           │ └─103394 "nginx: worker process"
           │ └─103395 "nginx: worker process"
           │ └─103396 "nginx: worker process"
           │ └─103397 "nginx: worker process"
           │ └─103398 "nginx: worker process"
           │ └─103399 "nginx: worker process"
           │ └─103400 "nginx: worker process"
           │ └─103401 "nginx: worker process"
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├─103402 "nginx: worker process"
├─103403 "nginx: worker process"
├─103404 "nginx: worker process"
├─103405 "nginx: worker process"
├─103406 "nginx: worker process"
├─103407 "nginx: worker process"
├─103408 "nginx: worker process"
├─103409 "nginx: worker process"
├─103410 "nginx: worker process"
├─103411 "nginx: worker process"
├─103412 "nginx: worker process"
├─103413 "nginx: worker process"
├─103414 "nginx: worker process"
├─103415 "nginx: worker process"
├─103416 "nginx: worker process"
├─103417 "nginx: worker process"
└─runtime
  └─103363 /usr/bin/conmon --api-version 1 -c
de01f8a650ae6d7e0893c6e3d399d219af3c44ebad4f73bda6615d477d210bf2 -u
de01f8a650ae6d7e0893c6e3d399d219af3c44ebad4f73bda6615d477d210bf2 -r
/usr/bin/crun -b /var/lib/containers/storage/overlay-conta>

Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 38
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 39
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 40
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 41
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 42
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 43
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 44
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 45
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 46
Sep 27 12:17:04 kvm33 systemd-nginx[103363]: 2024/09/27 03:17:04 [notice]
1#1: start worker process 47
[root@kvm33 systemd]# podman ps -a
CONTAINER ID   IMAGE                                     COMMAND                                     CREATED
STATUS        PORTS                                     NAMES
de01f8a650ae   docker.io/library/nginx:latest          nginx -g daemon o... 5
seconds ago   Up 6 seconds 0.0.0.0:80->80/tcp, 0.0.0.0:443->443/tcp
systemd-nginx

```

- https://docs.redhat.com/ko/documentation/red_hat_enterprise_linux/9/html/building_running_and_managing_containers/assembly_porting-containers-to-systemd-using-podman_building-running-and-managing-containers#auto-generating-a-systemd-unit-file-using-quadlets_assembly_porting-containers-to-systemd-using-podman
- https://www.redhat.com/sysadmin/quadlet-podman?extIdCarryOver=true&sc_cid=701f200001OH6kAAG
- <https://docs.podman.io/en/latest/markdown/podman-systemd.unit.5.html>

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