Podman POD

POD létrehozása podman segítségével

Ellenőrzések

```
# podman ps -a
CONTAINER ID  IMAGE       COMMAND     CREATED     STATUS      PORTS
NAMES

# podman image ls
REPOSITORY  TAG         IMAGE ID    CREATED     SIZE

# podman network ls
NETWORK ID    NAME        DRIVER
2f259bab93aa  podman      bridge

# podman secret ls
ID          NAME        DRIVER      CREATED     UPDATED

# podman volume ls
DRIVER      VOLUME NAME
```

Pod létrehozása

```
# podman pod create -p 80:80 --name webpod
0441cfc47b45869dff947ea4840a0430b560540567dc25779aad61d705c2f37a
```

Ellenőrzés

```
# podman pod ls
POD ID        NAME        STATUS      CREATED         INFRA ID      # OF
CONTAINERS
0441cfc47b45  webpod      Created     25 seconds ago  240a49036581  1

# podman pod inspect webpod
[
     {
          "Id":
"0441cfc47b45869dff947ea4840a0430b560540567dc25779aad61d705c2f37a",
          "Name": "webpod",
          "Created": "2026-03-30T06:24:26.079826698+02:00",
          "CreateCommand": [
               "podman",
```

```
                "pod",
                "create",
                "-p",
                "80:80",
                "--name",
                "webpod"
           ],
           "ExitPolicy": "continue",
           "State": "Running",
           "Hostname": "",
           "CreateCgroup": true,
           "CgroupParent": "machine.slice",
           "CgroupPath": "machine.slice/machine-
libpod_pod_0441cfc47b45869dff947ea4840a0430b560540567dc25779aad61d705c2f37a.
slice",
           "CreateInfra": true,
           "InfraContainerID":
"240a49036581acb996b2b9f90d01dce0845c7b72adaae83b6c0b99af07f09a1e",
           "InfraConfig": {
                "PortBindings": {
                     "80/tcp": [
                          {
                               "HostIp": "0.0.0.0",
                               "HostPort": "80"
                          }
                     ]
                },
                "HostNetwork": false,
                "StaticIP": "",
                "StaticMAC": "",
                "NoManageResolvConf": false,
                "DNSServer": null,
                "DNSSearch": null,
                "DNSOption": null,
                "NoManageHostname": false,
                "NoManageHosts": false,
                "HostAdd": null,
                "HostsFile": "",
                "Networks": [
                     "podman"
                ],
                "NetworkOptions": null,
                "pid_ns": "private",
                "userns": "host",
                "uts_ns": "private"
           },
           "SharedNamespaces": [
                "uts",
                "ipc",
                "net"
           ],
```

```
          "NumContainers": 1,
          "Containers": [
               {
                    "Id":
"240a49036581acb996b2b9f90d01dce0845c7b72adaae83b6c0b99af07f09a1e",
                    "Name": "0441cfc47b45-infra",
                    "State": "running"
               }
          ],
          "LockNumber": 0
     }
]

# podman ps -a
CONTAINER ID  IMAGE       COMMAND     CREATED             STATUS      PORTS
NAMES
240a49036581                          About a minute ago  Created
0.0.0.0:80->80/tcp  0441cfc47b45-infra
```

Régebbi podman változatokban az image-ek listázásakor látszott a podman-pause infrastruktúra image.

```
# podman image ls
REPOSITORY              TAG               IMAGE ID      CREATED
SIZE
localhost/podman-pause  5.4.0-1757462400  918a1d4c216b  About a minute ago
706 kB
```

Konténerek hozzáadása

```
# podman run -d --name nginx --pod webpod nginx
Resolved "nginx" as an alias (/etc/containers/registries.conf.d/000-
shortnames.conf)
Trying to pull docker.io/library/nginx:latest...
Getting image source signatures
Copying blob ec781dee3f47 done   |
Copying blob 3189680c601f done   |
Copying blob bb3d0aa29654 done   |
Copying blob cde7a05ae428 done   |
Copying blob 510ddf6557d6 done   |
Copying blob 587e3d84dbb5 done   |
Copying blob 5e815e07e569 done   |
Copying config 0cf1d6af5c done   |
Writing manifest to image destination
7ef087f7bdba3a57f7c0f728b5d20ce1a11831af4c6e6e8b07dede19ea7eaf33

# podman run -it --rm --pod webpod busybox wget -qO- http://127.0.0.1
Resolved "busybox" as an alias (/etc/containers/registries.conf.d/000-
shortnames.conf)
```

```
Trying to pull docker.io/library/busybox:latest...
Getting image source signatures
Copying blob 481282afbc43 done   |
Copying config 925ff61909 done   |
Writing manifest to image destination
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, nginx is successfully installed and working.
Further configuration is required for the web server, reverse proxy,
API gateway, load balancer, content cache, or other features.</p>

<p>For online documentation and support please refer to
<a href="https://nginx.org/">nginx.org</a>.<br/>
To engage with the community please visit
<a href="https://community.nginx.org/">community.nginx.org</a>.<br/>
For enterprise grade support, professional services, additional
security features and capabilities please refer to
<a href="https://f5.com/nginx">f5.com/nginx</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```

Ellenőrzés

```
# podman pod inspect --format '{{range
.Containers}}{{.Name}}{{"\n"}}{{end}}' webpod
0441cfc47b45-infra
nginx
```

```
# podman inspect -f '{{.State.Pid}}' 0441cfc47b45-infra
3795

# ls -l /proc/3795/ns/
total 0
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 cgroup -> 'cgroup:[4026532575]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:27 ipc -> 'ipc:[4026532573]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 mnt -> 'mnt:[4026532571]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:27 net -> 'net:[4026532470]'
```

```
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 pid -> 'pid:[4026532574]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 pid_for_children ->
'pid:[4026532574]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 time -> 'time:[4026531834]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 time_for_children ->
'time:[4026531834]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:48 user -> 'user:[4026531837]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:27 uts -> 'uts:[4026532572]'

# lsns -p 3795
        NS TYPE   NPROCS   PID USER COMMAND
4026531834 time      153     1 root /usr/lib/systemd/systemd --switched-root
--s
4026531837 user      153     1 root /usr/lib/systemd/systemd --switched-root
--s
4026532470 net         4  3795 root /catatonit -P
4026532571 mnt         1  3795 root /catatonit -P
4026532572 uts         4  3795 root /catatonit -P
4026532573 ipc         4  3795 root /catatonit -P
4026532574 pid         1  3795 root /catatonit -P
4026532575 cgroup      1  3795 root /catatonit -P
```

```
# podman inspect -f '{{.State.Pid}}' nginx
6261

# ls -l /proc/6261/ns/
total 0
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 cgroup -> 'cgroup:[4026532578]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 ipc -> 'ipc:[4026532573]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 mnt -> 'mnt:[4026532576]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 net -> 'net:[4026532470]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 pid -> 'pid:[4026532577]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 pid_for_children ->
'pid:[4026532577]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 time -> 'time:[4026531834]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 time_for_children ->
'time:[4026531834]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 user -> 'user:[4026531837]'
lrwxrwxrwx. 1 root root 0 Mar 30 06:49 uts -> 'uts:[4026532572]'

# lsns -p 6261
        NS TYPE   NPROCS   PID USER COMMAND
4026531834 time      154     1 root /usr/lib/systemd/systemd --switched-root
--s
4026531837 user      154     1 root /usr/lib/systemd/systemd --switched-root
--s
4026532470 net         4  3795 root /catatonit -P
4026532572 uts         4  3795 root /catatonit -P
4026532573 ipc         4  3795 root /catatonit -P
4026532576 mnt         3  6261 root nginx: master process nginx -g daemon
off;
```

```
4026532577 pid         3  6261 root nginx: master process nginx -g daemon
off;
4026532578 cgroup      3  6261 root nginx: master process nginx -g daemon
off;
```

A catatonit egy a podman konténerben használt egy nagyon kicsi init / PID 1 helper folyamat.

Pod törlése

```
# podman pod stop webpod

# podman pod rm webpod
```

Pod létrehozáda YAML fájl segítségével

nginx-pod.yaml

```yaml
apiVersion: v1
kind: Pod
metadata:
  name: webpod
spec:
  containers:
    - name: nginx
      image: docker.io/library/nginx:latest
      ports:
        - containerPort: 80
    - name: busybox
      image: docker.io/library/busybox:latest
      command: ["sleep", "3600"]
```

Futtatás

```
podman play kube nginx-pod.yaml
```

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