Exercise 11

Troubleshooting

Q1.

Pull an Image "docker.io/dtg2468/troubleshoot:v1" This image is running httpd and pre-configured to do so. After pulling this image you are to make an container out of this image using "podman run".

After doing this simply execute this command: "podman exec -it <name_of_container> httpd" (Ignore the output.)

Now if you will do curl on this particular port you have associated this container to, it should give you a valid output.

If it does not, then you are troubleshoot this container using the methods we have discussed beforehand.

Solutions

Q1.

```
[root@localhost ~]# podman pull docker.io/dtg2468/troubleshoot:v1
Trying to pull docker.io/dtg2468/troubleshoot:v1...
Getting image source signatures
Copying blob f41cd7913770 done
Copying blob 3b7adf049118 done
Copying config 543703aa49 done
Writing manifest to image destination
Storing signatures
543703aa492b5b3fb73496d1ff6a9628a35406db0c678f26e6fa0fbcce6553d1
[root@localhost ~]# podman images
                                  TAG
REPOSITORY
                                               IMAGE ID
                                                              CREATED
                                                                             SIZE
docker.io/dtg2468/troubleshoot v1
                                               543703aa492b 21 hours ago 278 MB
```

```
[root@localhost ~]# podman run -itd --name con1 -p 8080:80 docker.io/dtg2468/troubleshoot:v1
d9edda95635ec8e280c651c82ca464ac612da2c4a9c57fdab757566191e11c61
[root@localhost ~]# podman ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d9edda95635e docker.io/dtg2468/troubleshoot:v1 /bin/bash 5 seconds ago Up 5 seconds ago 0.0.0.0:8080->80/tcp con1
[root@localhost ~]# podman exec -it con1 httpd
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 10.88.0.16. Set the 'ServerName' dire ctive globally to suppress this message
[root@localhost ~]# podman ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
d9edda95635e docker.io/dtg2468/troubleshoot:v1 /bin/bash 21 seconds ago Up 21 seconds ago 0.0.0.0:8080->80/tcp con1
[root@localhost ~]# ■
```

```
[root@localhost ~]# curl localhost:8080
curl: (7) Failed to connect to localhost port 8080: Connection refused
[root@localhost ~]# podman exec -it con1 bash
[root@d9edda95635e /]# curl localhost
curl: (7) Failed to connect to localhost port 80: Connection refused
[root@d9edda95635e /]#
```

```
[root@localhost ~]# podman inspect con1
     {
           "Id": "d9edda95635ec8e280c651c82ca464ac612da2c4a9c57fdab757566191e11c61",
           "Created": "2023-10-01T12:16:53.281433581+05:30",
           "Path": "/bin/bash",
           "Args": [
                 "/bin/bash"
           ],
"State": {
"OciV
                 "OciVersion": "1.0.2-dev",
                 "Status": "running",
                 "Running": true, 
"Paused": false,
                 "Restarting": false, "OOMKilled": false,
                 "Dead": false,
"Pid": 8444,
                 "ConmonPid": 8440,
                 "ExitCode": 0,
                 "Error": ""
                 "Error": ",
"StartedAt": "2023-10-01T12:16:53.779871049+05:30",
                 "FinishedAt": "0001-01-01T00:00:00Z",
                 "Health": {
                       "Status": "",
                       "FailingStreak": 0,
                       "Log": null
```

```
[root@localhost ~]# podman inspect con1 --format '{{.State.Pid}}'
8444
[root@localhost ~]#
```

```
[root@localhost ~]# podman exec -it con1 bash
[root@d9edda95635e /]# cat /etc/httpd/conf/httpd.conf

#
# This is the main Apache HTTP server configuration file. It contains the
# configuration directives that give the server its instructions.
# See <URL:http://httpd.apache.org/docs/2.4/> for detailed information.
# In particular, see
# <URL:http://httpd.apache.org/docs/2.4/mod/directives.html>
# for a discussion of each configuration directive.
#
# See the httpd.conf(5) man page for more information on this configuration,
# and httpd.service(8) on using and configuring the httpd service.
#
# Do NOT simply read the instructions in here without understanding
# what they do. They're here only as hints or reminders. If you are unsure
# consult the online docs. You have been warned.
```

```
[root@localhost ~]# podman rm -f con1
 VARN[0010] StopSignal SIGTERM failed to stop container con1 in 10 seconds, resorting to SIGKILL
d9edda95635ec8e280c651c82ca464ac612da2c4a9c57fdab757566191e11c61
froot@localhost ~]# podman run -itd --name con2 -p 8080:81 docker.io/dtg2468/troubleshoot:v1
#00a9dd24db7fcea8aa2164b139c16cc3d7ff55b56809bc3c1bca1a028c42d1d3
[root@localhost ~]# podman exec -it con2 httpd
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 10.88.0.17. Set the
'ServerName' directive globally to suppress this message
[root@localhost ~]# podman ps
CONTAINER ID IMAGE
                                                   COMMAND
                                                                CREATED
                                                                                 STATUS
                                                                                                     PORTS.
     NAMES
00a9dd24db7f docker.io/dtg2468/troubleshoot:v1 /bin/bash
                                                                12 seconds ago Up 12 seconds ago 0.0.0.0:8080->81/
tcp_con2
[root@localhost ~]# curl localhost:8080
TROUBLESHOOTING COMPLETE!
₩ELL DONE!
[root@localhost ~]#
 to be loaded here.
```