Федеральное государственное бюджетное образовательное учреждение высшего образования «Сибирский государственный университете телекоммуникаций и информатики»

Лабораторная работа №2

Архитектура вычислительных систем

Выполнил студент группы: Андрущенко Филипп ИП-216

1.

```
docker run -d --name nginx-container -p 8080:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
3122471704d5: Download complete
7bb6fb0cfb2b: Download complete
895d327c79ae: Download complete
8723edc10c17: Download complete
24b3fdc4d1e3: Download complete
bbfaa25db775: Download complete
bbfaa25db775: Download complete
a2318d6c47ec: Download complete
Digest: sha256:04ba374043ccd2fc5c593885c0eacddebabd5ca375f9323666f28dfd5a9710e3
Status: Downloaded newer image for nginx:latest
bc3bfd3be19feae7ca80645e3737b099d416ded2842b25bfc461e0405acca72a
```

Name	Image	Status	Port(s)	CPU (%)	Last started	Actions	
nginx-container bc3bfd3be19f 🗇	nginx: <none></none>	Running	<u>8080:80</u> €	0%	2 minutes ago	. :	Ū

docker run	запускает новый контейнер.
-d	запускает контейнер в фоновом режиме.
name nginx-container	задает имя контейнера.
-ρ 8080:80	пробрасывает порт 80 контейнера на порт 8080 хоста.
nginx	имя образа, который будет использоваться.



2.



Name	Image	Status	Port(s)	CPU (%)	Last started	Actions	
nginx-container bc3bfd3be19f ヴ	nginx: <none></none>	Exited	8080:80	N/A	9 minutes ago	D :	Ū

При выполнении docker stop nginx-container, Nginx сначала получает сигнал SIGTERM, что инициирует его процедуру корректного завершения (Nginx закроет все открытые соединения). Если в течение 10 секунд Nginx не завершится, Docker отправит SIGKILL, чтобы принудительно завершить процесс.

PS AUX

```
A fr
) docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
bc3bfd3be19f nginx "/docker-entrypoint..." 53 minutes ago Up 12 minutes 0.8.0.0:8080→80/tcp nginx-container

A fr
) ps aux | grep bc3bfd3be19f
dxrk_ 106662 0.0 0.0 6552 4156 pts/0 S+ 23:16 0:00 grep bc3bfd3be19f
```

IPCS

```
docker exec nginx-container ipcs
----- Message Queues -----
       msqid
                 owner
                          perms
                                     used-bytes messages
----- Shared Memory Segments ------
                 owner
                                     bytes
                                              nattch
      shmid
                            perms
                                                        status
----- Semaphore Arrays ------
                           perms
                                     nsems
```

Network

```
A A~
) docker inspect nginx-container | grep "IPAddress"

"SecondaryIPAddresses": null,

"IPAddress": "172.17.0.2",

"IPAddress": "172.17.0.2",
```

Users

```
A ↑~

) docker exec nginx-container id

uid=0(root) gid=0(root) groups=0(root)
```

Hostname

```
A ↑~

} docker exec nginx-container hostname

bc3bfd3be19f
```

Mount

```
A doctor were nginx-container mount

overlay on / type overlay (rm, relatime, lowerdirm*/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs:/var/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs.yar/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs.yar/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs.yar/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs.yar/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/8/fs.yar/lib/desktop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/9/mork)
tapfs on //des/yarps/fs/cgnout/snapskop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/9/mork)
tapfs on //des/yarps/fs/cgnout/snapskop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/9/mork)
tapfs on //des/yars/fs/cgnout/snapskop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/9/mork)
tapfs on //des/yars/fs/cgnout/snapskop-containerd/daemon/lo.containerd.snapshotter.v1.overlayfs/snapshots/9/mork)
tapfs on //des/yars/fs/cgnout/snapskop-containerd/daemon/lo.containerd/snapshoter.v1.overlayfs/snapshots/9/mork)
tapfs on //des/yashop-caller/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/snapshots/sna
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