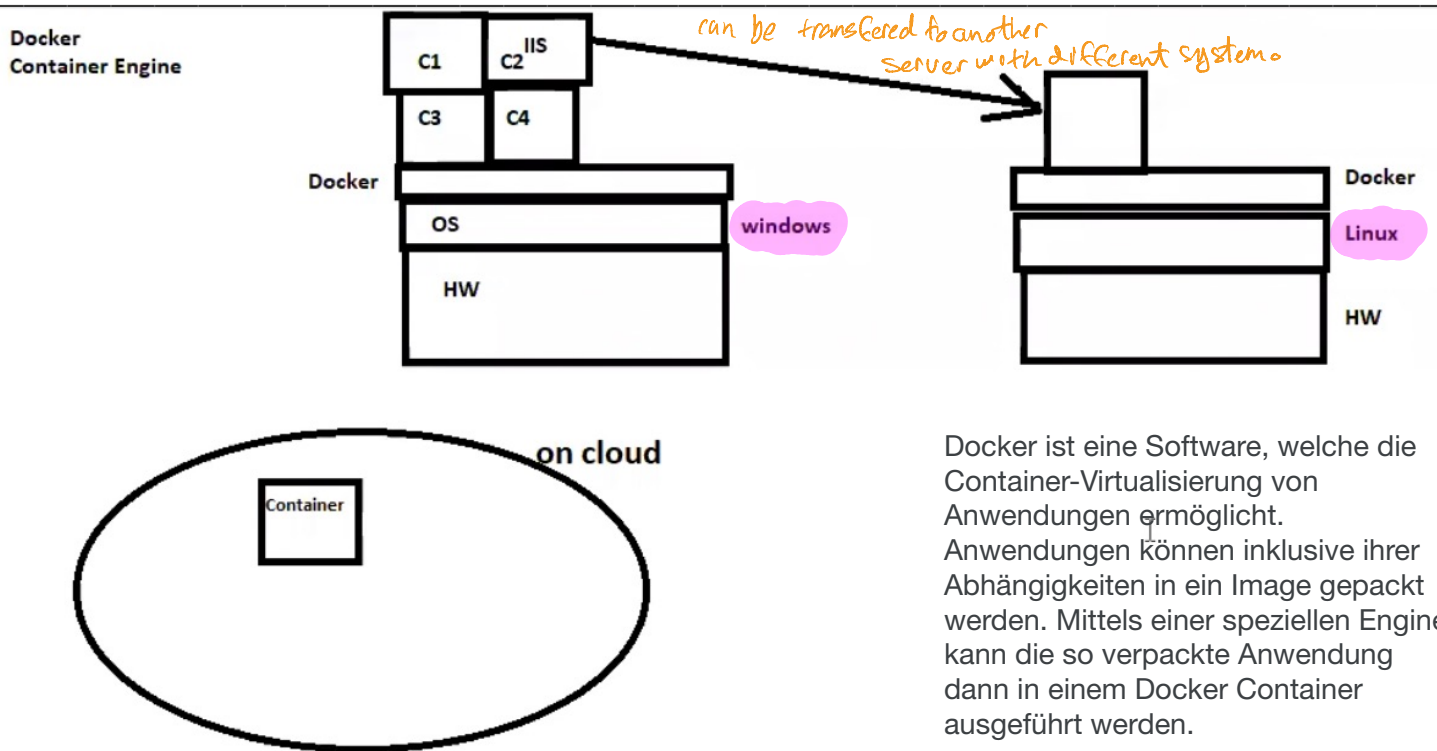
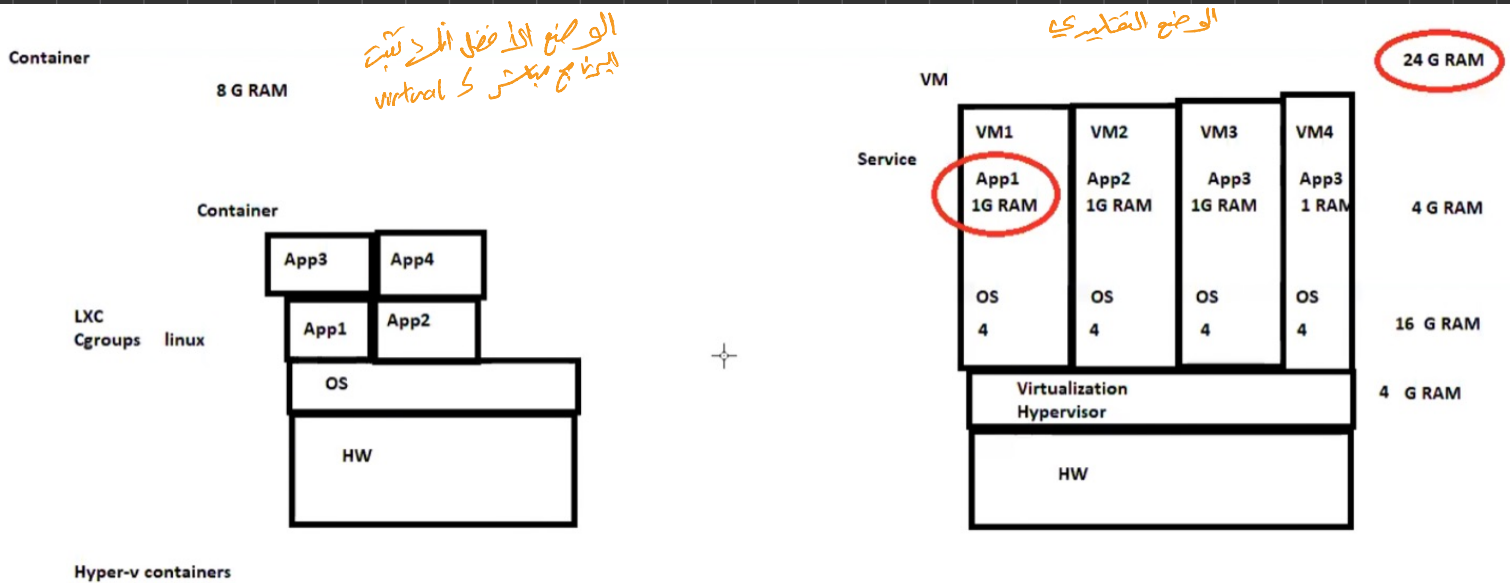
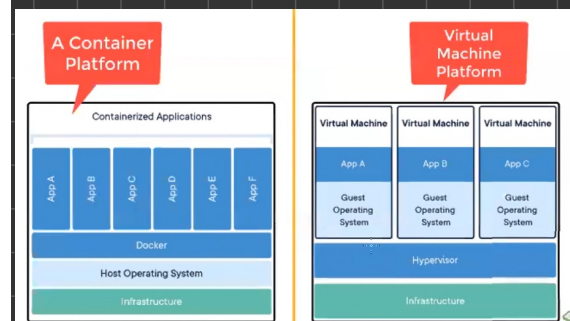
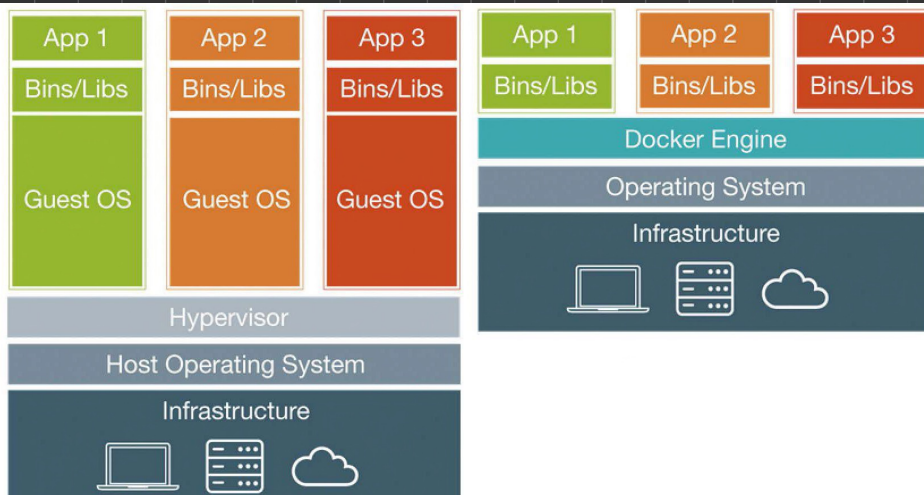


Docker



Docker ist eine Software, welche die Container-Virtualisierung von Anwendungen ermöglicht. Anwendungen können inklusive ihrer Abhängigkeiten in ein Image gepackt werden. Mittels einer speziellen Engine kann die so verpackte Anwendung dann in einem Docker Container ausgeführt werden.



install container utility podman (download-create-start-stop-manage Containers)

podman is an open source utility to manage my containers.

```
# yum info podman
# yum install podman
```

```
# podman search httpd    search for httpd container images
# podman search ftp      search for ftp container images
```

```
docker.io/library/httpd    <<<<< Name of container image
```

```
# podman pull docker.io/library/httpd    → Download this image.
```

```
# podman ps
```

```
# podman run -dt -p 8080:80/tcp docker.io/library/httpd
```

```
# podman ps
```

```
# podman ps -a    → Show all containers (running/stopped)
```

```
# podman login confident_fermat
```

```
# podman logs confident_fermat
```

```
# podman rm confident_fermat
```

create and run httpd container
list started containers
list all containers

remove container (NOTE: first stop it)

```
# podman images    → Show all pulled images.
```

```
[root@Server1 ~]# podman ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
fe6791db6e25   docker.io/library/httpd:latest      httpd-foreground        4 minutes ago Up 4 minutes ago 0.0.0.0:8080->80/tcp               inspiring_wescoff
[root@Server1 ~]#
[root@Server1 ~]# podman run -dt -p 8081:80/tcp docker.io/library/httpd
8a84f08c1c15a3766a9fdccf3a946de64a12f009df78fb195bdfb1d20f012f2d
[root@Server1 ~]# podman ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
8a84f08c1c15   docker.io/library/httpd:latest      httpd-foreground        2 seconds ago Up 2 seconds ago 0.0.0.0:8081->80/tcp               reverent_dubinsky
fe6791db6e25   docker.io/library/httpd:latest      httpd-foreground        4 minutes ago Up 4 minutes ago 0.0.0.0:8080->80/tcp               inspiring_wescoff
[root@Server1 ~]# podman run -dt -p 8082:80/tcp docker.io/library/httpd
977b4951dab00129b729c0fafb01c4dd3f3df27519bee4c6ca21265a1c1b5412
[root@Server1 ~]# podman ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
977b4951dab0   docker.io/library/httpd:latest      httpd-foreground        2 seconds ago Up 2 seconds ago 0.0.0.0:8082->80/tcp               confident_fermat
8a84f08c1c15   docker.io/library/httpd:latest      httpd-foreground        39 seconds ago Up 39 seconds ago 0.0.0.0:8081->80/tcp               reverent_dubinsky
fe6791db6e25   docker.io/library/httpd:latest      httpd-foreground        5 minutes ago Up 5 minutes ago 0.0.0.0:8080->80/tcp               inspiring_wescoff
[root@Server1 ~]# podman stop reverent_dubinsky
8a84f08c1c15a3766a9fdccf3a946de64a12f009df78fb195bdfb1d20f012f2d
[root@Server1 ~]# podman ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
977b4951dab0   docker.io/library/httpd:latest      httpd-foreground        About a minute ago Up About a minute ago 0.0.0.0:8082->80/tcp               confident_fermat
fe6791db6e25   docker.io/library/httpd:latest      httpd-foreground        6 minutes ago Up 6 minutes ago 0.0.0.0:8080->80/tcp               inspiring_wescoff
[root@Server1 ~]#
[root@Server1 ~]# podman ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS                               NAMES
977b4951dab0   docker.io/library/httpd:latest      httpd-foreground        About a minute ago Up About a minute ago 0.0.0.0:8082->80/tcp               confident_fermat
8a84f08c1c15   docker.io/library/httpd:latest      httpd-foreground        2 minutes ago   Exited (0) 12 seconds ago 0.0.0.0:8081->80/tcp               reverent_dubinsky
fe6791db6e25   docker.io/library/httpd:latest      httpd-foreground        6 minutes ago Up 6 minutes ago 0.0.0.0:8080->80/tcp               inspiring_wescoff
[root@Server1 ~]# podman start reverent_dubinsky
reverent_dubinsky
[root@Server1 ~]#
```