

Prácticas Docker

1. Arrancar y parar los servicios de Docker

- Vamos primero a parar docker

```
Systemctl stop docker
```

- Arrancar Docker de forma manual, sin "systemctl"

dockerd

```
INFO[2022-04-05T03:52:13.315872780+02:00] Starting up
INFO[2022-04-05T03:52:13.323980926+02:00] parsed scheme: "unix"
module=grpc
INFO[2022-04-05T03:52:13.324254014+02:00] scheme "unix" not
registered, fallback to default scheme module=grpc
INFO[2022-04-05T03:52:13.324283144+02:00] ccResolverWrapper:
sending update to cc: {[{unix:///run/containerd/containerd.sock <nil> 0
<nil>}] <nil> <nil>} module=grpc
INFO[2022-04-05T03:52:13.324292221+02:00] ClientConn switching
balancer to "pick_first" module=grpc
INFO[2022-04-05T03:52:13.329051823+02:00] parsed scheme: "unix"
module=grpc
INFO[2022-04-05T03:52:13.329078582+02:00] scheme "unix" not
registered, fallback to default scheme module=grpc
INFO[2022-04-05T03:52:13.329103177+02:00] ccResolverWrapper:
sending update to cc: {[{unix:///run/containerd/containerd.sock <nil> 0
<nil>}] <nil> <nil>} module=grpc
INFO[2022-04-05T03:52:13.329110749+02:00] ClientConn switching
balancer to "pick_first" module=grpc
INFO[2022-04-05T03:52:13.711895834+02:00] [graphdriver] using prior
storage driver: overlay2
WARN[2022-04-05T03:52:13.805036133+02:00] Your kernel does not
support cgroup blkio weight
WARN[2022-04-05T03:52:13.805065854+02:00] Your kernel does not
support cgroup blkio weight_device
INFO[2022-04-05T03:52:13.805473846+02:00] Loading containers:
start.
INFO[2022-04-05T03:52:14.157041399+02:00] Firewall: docker zone
already exists, returning
INFO[2022-04-05T03:52:14.849502536+02:00] Firewall: interface
docker0 already part of docker zone, returning
```

```
INFO[2022-04-05T03:52:15.060018907+02:00] Firewall: interface
docker0 already part of docker zone, returning
INFO[2022-04-05T03:52:15.877744517+02:00] Default bridge (docker0)
is assigned with an IP address 172.17.0.0/16. Daemon option --bip can
be used to set a preferred IP address
INFO[2022-04-05T03:52:16.270389598+02:00] Firewall: interface
docker0 already part of docker zone, returning
INFO[2022-04-05T03:52:16.755658855+02:00] Loading containers:
done.
INFO[2022-04-05T03:52:16.860087825+02:00] Docker daemon
commit=459d0df graphdriver(s)=overlay2 version=20.10.12
INFO[2022-04-05T03:52:16.860444362+02:00] Daemon has completed
initialization
INFO[2022-04-05T03:52:17.039251364+02:00] API listen on
/var/run/docker.sock
```

- Desde otro terminal, comprobar los procesos que se han arrancado en el servidor
- Deben aparecer dos:
 - El daemon dockerd
 - Otro proceso asociado que gestiona los contenedores: dockerd-container

```
ps -ef | grep docker
```

```
root      7953   3381  1 03:52 pts/0    00:00:00 dockerd
```

```
ps -ef | grep container
```

```
root      1003     1  0 abr04 ?        00:00:07 /usr/bin/containerd
```

- Cortar el proceso del demonio con CTRL-C en la ventana donde lo hemos arrancado
- Arrancarlo ahora con SYSTEMCTL

```
systemctl start docker
```

- Comprobamos el estado

```
systemctl status docker
```

- docker.service - Docker Application Container Engine

```
Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled;
vendor preset: disabled)

Active: active (running) since jue 2018-03-15 15:23:09 CET; 7s ago
Docs: https://docs.docker.com
Main PID: 15209 (dockerd)
Memory: 23.0M
CGroup: /system.slice/docker.service
└─15209 /usr/bin/dockerd
    └─15218 docker-containerd --config
/var/run/docker/containerd/cont...

mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
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15T15:23:..."
mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
mar 15 15:23:09 localhost.localdomain dockerd[15209]: time="2018-03-
15T15:23:..."
mar 15 15:23:09 localhost.localdomain systemd[1]: Started Docker
Application ...
Hint: Some lines were ellipsized, use -l to show in full.
```

- Activamos el servicio para que funcione al arrancar el servidor (aunque esto ya deberíamos haberlo hecho en una práctica anterior, solo es necesario hacerlo una vez)

```
[root@localhost ~]# systemctl enable docker
```

Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.

- Si ahora volvemos a lanzar el comando para ver los procesos del sistema veremos que en realidad docker se lanza con el componente “containerd” de enlazado

ps -ef | grep docker

```
root      8512      1  0 04:03 ?        00:00:00 /usr/bin/dockerd -H fd:// --
containerd=/run/containerd/containerd.sock
```