



# CICLO FORMATIVO DE GRADO SUPERIOR - TÉCNICO EN ADMINISTRACIÓN DE SISTEMAS INFORMÁTICOS EN REDES

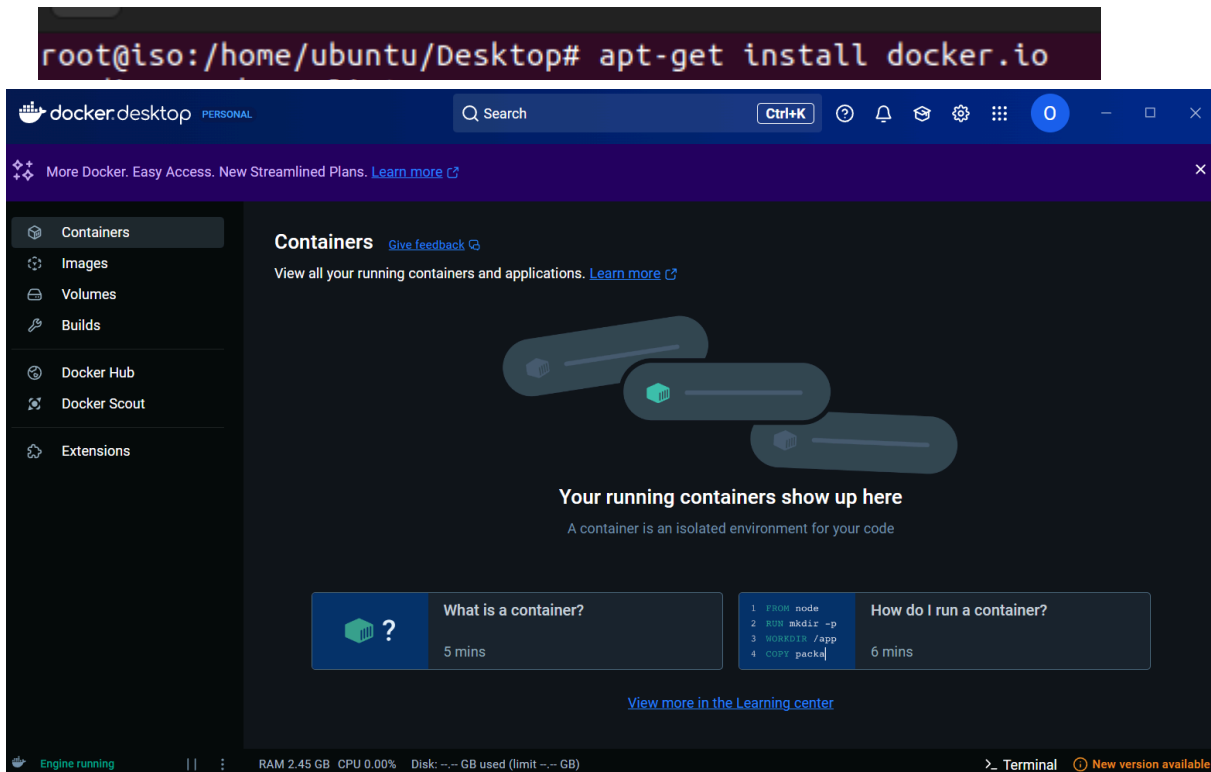
## ADMINISTRACIÓN DE SISTEMAS OPERATIVOS

### Docker

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### PRÁCTICA 1. Instalación y uso básico de Docker

1. Instalar Docker a través del comando:



ya tenía instalado docker desktop, aunque es compatible con wsl2, es mas 1 de los requisitos para tener el engine de docker en windows es tener el daemon de docker que en este caso se requiere o wsl2 o otro programa para instalar el daemon ya que se requiere de linux.

2. Revisar la versión del programa:

```
root@iso:/home/ubuntu/Desktop# docker info
```

```
~\Desktop (0.135s)
docker --version

Docker version 27.4.0, build bde2b89
```

3. Iniciar el servicio y comprobar su estado:

```
root@iso:/home/ubuntu/Desktop# systemctl start docker
root@iso:/home/ubuntu/Desktop# systemctl status docker
```

Docker appears to be installed on the system, but the service is not being managed by 'systemd'. This can happen if Docker was installed without systemd support or in a different setup method. Let's try starting Docker using the Docker command-line directly and check if it's running correctly.

```
✓ sudo dockerd &
```

```
sudo: dockerd: command not found
```

The 'dockerd' command has been started in the background, which should have launched the Docker daemon. Let's check the Docker status to ensure it is running properly by listing the active Docker containers.

```
✓ docker ps
```

```
[1]+ Exit 1
```

```
sudo dockerd
```

Docker has started successfully, and it is running without any containers at the moment. The 'docker ps' command confirmed that the service is up and ready for use. You can now proceed to run Docker containers as needed.

```
PS C:\Users\34640> Get-Process -Name "Docker Desktop"
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
797	40	122332	140008	4,89	12780	7	Docker Desktop
287	16	13380	37672	0,16	16456	7	Docker Desktop
606	27	94980	126256	3,00	22812	7	Docker Desktop

4. Búsqueda de imágenes en el repositorio

```
root@iso:/home/ubuntu/Desktop# docker search mysql
```

```
PS C:\Users\34640> Get-Process -Name "Docker Desktop"
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
797	40	122332	140008	4,89	12780	7	Docker Desktop
287	16	13380	37672	0,16	16456	7	Docker Desktop
606	27	94980	126256	3,00	22812	7	Docker Desktop

5. Descargar imagen del repositorio online al repositorio local.

a. La última versión

```
root@iso:/home/ubuntu/Desktop# docker pull mysql
Using default tag: latest
```

```
PS C:\Users\34640> Get-Process -Name "Docker Desktop"
```

Handles	NPM(K)	PM(K)	WS(K)	CPU(s)	Id	SI	ProcessName
797	40	122332	140008	4,89	12780	7	Docker Desktop
287	16	13380	37672	0,16	16456	7	Docker Desktop
606	27	94980	126256	3,00	22812	7	Docker Desktop

b. Una versión en específico.

```
root@iso:/home/ubuntu/Desktop# docker pull mysql:5.5
```

6. Listar las imágenes del repositorio local.

```
root@iso:/home/ubuntu/Desktop# docker images
```

```
/mnt/c/Users/34640/Desktop (0.095s)
```

```
docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mysql	latest	146682692a3a	4 weeks ago	1.09GB
mysql	5.5	12da85ab88ae	5 years ago	287MB

7. Eliminar imágenes del repositorio local.

```
root@iso:/home/ubuntu/Desktop# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mysql latest 73246731c4b0 2 weeks ago 619MB
mysql 5.5 d404d78aa797 4 years ago 205MB
root@iso:/home/ubuntu/Desktop# docker rmi 73246731c4b0
```

```
/mnt/c/Users/34640/Desktop (0.093s)
```

```
docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mysql	latest	146682692a3a	4 weeks ago	1.09GB

```
/mnt/c/Users/34640/Desktop (0.774s)
```

```
docker rmi 146682692a3a
```

```
Untagged: mysql:latest
```

```
Deleted: sha256:146682692a3aa409eae7b7dc6a30f637c6cb49b6ca901c2cd160becc81127d3b
```

```
/mnt/c/Users/34640/Desktop (0.06s)
```

```
docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
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