

# Docker

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# Determining and Clearing Container Disk Usage in Overlay2

Show disk usage using docker df:

```
docker system df
```

Should output similar to below:

TYPE	TOTAL	ACTIVE	SIZE	RECLAIMABLE
Images	23	22	11.15GB	799.2MB (7%)
Containers	28	27	2.751GB	0B (0%)
Local Volumes	19	19	477.2MB	0B (0%)
Build Cache	0	0	0B	0B

Show disk usage using du:

```
du -shc /var/lib/docker/overlay2/*/diff | grep total
```

should output similar to below:

```
15G    total
```

Show disk usage using du:

```
du -h /var/lib/docker | sort -h
```

Script to clear overlay2 storage and volumes :

```
#!/bin/bash
```

```
# remove exited containers:
```

```
docker ps --filter status=dead --filter status=exited -aq | xargs -r docker rm -v
```

```
# remove unused images:
```

```
docker images --no-trunc | grep '<none>' | awk '{ print $3 }' | xargs -r docker rmi
```

```
# remove unused volumes:
```

```
find '/var/lib/docker/volumes/' -mindepth 1 -maxdepth 1 -type d | grep -vFf <(  
  docker ps -aq | xargs docker inspect | jq -r '.[[] | .Mounts | .[] | .Name | select(.)'  
) | xargs -r rm -fr
```

Docker Logs can also take up a significant amount of space. Logs are located under `/var/lib/docker/containers/<container-id>/<container-id-json.log`.

Logs can be set to maximum size and number by setting the following in `docker-compose.yml`:

```
services:  
  my-app:  
    image: my-app:latest  
    container_name: mycontainer  
    logging:  
      options:  
        max-size: 10m  
    ....
```

Additionally, you can setup logging driver default options at the daemon level as described in the URL below:

<https://docs.docker.com/config/containers/logging/configure/#configure-the-default-logging-driver>

# Display live container resource usage

Run the following command to view CPU and memory usage of all your containers in real-time:

```
docker stats --all --format "table {{.ID}}\t{{.Name}}\t{{.CPUPerc}}\t{{.MemUsage}}"
```