

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>

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