

Issue

Sometimes it may be necessary to extract the images from a DTR volume or from a backup of the DTR volumes. For example, this would be necessary in the case of a full reinstall of UCP from scratch when there is an attached DTR cluster, since the user permission information for DTR images and repositories would be lost without restoring from a UCP backup or anytime you need to retrieve all images from a DTR cluster when it isn't possible to pull the images directly.

In the absence of a functioning DTR cluster, it's possible to extract these images using the open source `registry` image.

Prerequisites

Before performing these steps, you must meet the following requirements:

- Ensure you have a recent backup or copy of the `dtr-registry` volume

Resolution

1. First, identify the `dtr-registry` volume that needs to be extracted:

```
# docker volume ls --filter=name=dtr
DRIVER          VOLUME NAME
local           dtr-ca-a2382528a00b
local           dtr-postgres-a2382528a00b
local           <^>dtr-registry-a2382528a00b<^^>
local           dtr-rethink-a2382528a00b
```

2. Next, navigate to the `/var/lib/docker/volumes` directory and copy the contents of the volume to a known location for easy access.

```
# cd /var/lib/docker/volumes/
# cp -r <^>dtr-registry-a2382528a00b<^^>/ /<^>backup-directory<^^>/.
```

3. Next, create a Docker volume to hold the image data. In this example, a volume called `registry` is created:

```
# docker volume create <^>registry<^^>
```

4. Next, copy the image data from the DTR volume into the volume just created:

```
# cp -r /<^>backup-directory<^^>/<^>dtr-registry-a2382528a00b<^^>/_data/
/var/lib/docker/volumes/<^>registry<^^>/
```

5. Now perform a quick check to ensure that the repositories are in place:

```
# tree -L 6 /var/lib/docker/volumes/<^>registry<^^>
registry
├── _data
│   └── docker
│       └── registry
│           └── v2
│               ├── blobs
│               │   └── sha256
│               ├── repositories
│               └── mike
```

6. Next, start up a container using the `registry:2` image provided by Docker, and mount the named volume created in the container at `/var/lib/registry`:

```
# docker run -v <^>registry<^^>:/var/lib/registry -d -p 5000:5000 --name <^>registry<^^> registry:2
```

7. Now attempt to pull an image from the registry:

```
# docker pull localhost:5000/mike/minecraft
Using default tag: latest
latest: Pulling from mike/minecraft
Digest: sha256:f3c567d7a45bd7ef4ef442ec18842f05c056943662d70c3100fa032253fd3c84
Status: Image is up to date for localhost:5000/mike/minecraft:latest
```

What's Next

- [DTR Backups and Recovery \(https://docs.docker.com/datacenter/dtr/2.3/guides/admin/backups-and-disaster-recovery/\)](https://docs.docker.com/datacenter/dtr/2.3/guides/admin/backups-and-disaster-recovery/)
- [Monitor DTR for problems \(https://docs.docker.com/datacenter/dtr/2.3/guides/admin/monitor-and-troubleshoot/\)](https://docs.docker.com/datacenter/dtr/2.3/guides/admin/monitor-and-troubleshoot/)