

Intel/Windriver Infrastructure APT/DOCKER Proxy Setup

Thanks to Gary Wu for setting up the original proxies and providing the source material for the description below.

The infrastructure provides an APT and DOCKER proxy to reduce bandwidth utilization for installs in the Intel/Windriver Lab.

APT proxy is on port 8000 through a squid proxy

DOCKER proxy is on port 5000 using a docker registry.

The DOCKER proxy uses a 4 TB volume mount for the docker images.

Below are the instructions for setting it up.

1. apt-get update
2. apt-get -y install squid-deb-proxy
 - a. this will install and start the apt proxy on port 8000
3. If you need to re-create the Volume mount for the docker registry
 - Create your instance (Openstack UI)
 - Create your volume (Openstack UI)
 - Attach volume to instance (Openstack UI)
4. After creating the volume or to re-use the existing volume, go into the nexus-proxy instance:
 - a. lsblk -f # identify the new volume device, probably /dev/vdb
 - b. cgdisk /dev/vdb # create your partition as /dev/vdb1
 - c. mkfs.ext4 -L ~~docker~~ proxy /dev/vdb1 to create the FS on /dev/vdb1
 - i. Original command: mkfs.xfs -f -L docker-proxy /dev/vdb1 # create xfs FS on /dev/vdb1
 - ii. the current windriver proxy uses ext4 so that is why we should that in the fstab config
 - d. mkdir -p /mnt/registry # create mount for FS
 - e. add something like the following to your /etc/fstab, with your own FS UUID of course
 - f. UUID=xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx /mnt/registry ext4 noatime 0 0

g. /etc/fstab

```
LABEL=cloudimg-rootfs      /          ext4      defaults    0 0
LABEL=UEFI                 /boot/efi   vfat      defaults    0 0
# vdb      ext4             5d493140-c4b7-42f0-9fa1-c9c8d8ac3a0e
UUID=5d493140-c4b7-42f0-9fa1-c9c8d8ac3a0e /mnt/registry ext4      noatime     0
0
```

- h. mount /mnt/registry/
 - i. Reboot to be sure that the FS can be mounted correctly
5. apt-get install [docker.io](https://www.docker.io/)
6. docker run -d -p 5000:5000 --restart=unless-stopped --name registry -v /mnt/[registry:var/lib/registry](https://nexus3.onap.org:10001) -e REGISTRY_PROXY_REMOTEURL=<https://nexus3.onap.org:10001> registry:2

If you need to do maintenance on the docker registry to clean up the cache:

inside registry:

```
bin/registry garbage-collect /etc/docker/registry/config.yml
```