

Kita Server Installation Instructions

Docker Setup

The following are instructions for installing docker on Linux/CentOS. Details for other Linux distros may vary. For OS X, see <https://docs.docker.com/engine/installation/>.

Run the following commands to install Docker on Linux/CentOS:

```
$ sudo yum install docker
$ sudo service docker start
$ sudo chkconfig --level 300 docker on
$ sudo groupadd docker # if group docker doesn't exist already
$ sudo gpasswd -a $USER docker
# log out and back in again (may also need to stop/start docker service)
$ docker ps # verify
```

Install docker-compose. See: <https://docs.docker.com/compose/install/>

Test Data Setup

Using the following procedure to import test files into hsd

1. Install h5py: `$ pip install h5py`
2. Install h5pyd (Python client SDK): `$ pip install h5pyd`
3. Download the following file: `$ wget https://s3.amazonaws.com/hdfgroup/data/hdf5test/tall.h5`
4. In the following steps use the password that was setup for the test_user1 account in place of <passwd>
5. Create a test folder on HSDS: `$ hstouch -u test_user1 -p <passwd> /home/test_user1/test/`
6. Import into hsd: `$ hslload -v -u test_user1 -p <passwd> tall.h5 /home/test_user1/test/`
7. Verify upload: `$ hsls -r -u test_user1 -p <passwd> /home/test_user1/test/tall.h5`

Installing Software Updates

To get the latest codes changes from the HSDS repo do the following:

1. Shutdown the service: `$ stopall.sh`
2. Get code changes: `$ git pull`
3. Build a new Docker image: `$ docker-compose build`
4. Start the service: `$./runall.sh`