INSTALL CEPH STORAGE CLUSTER

This guide describes installing Ceph packages manually. This procedure is only for users who are not installing with a deployment tool such as ceph-deploy, chef, juju, etc.

> **Tip:** You can also use ceph-deploy to install Ceph packages, which may be more convenient since you can install ceph on multiple hosts with a single command.

INSTALLING WITH APT

Once you have added either release or development packages to APT, you should update APT's database and install Ceph:

```
sudo apt-get update && sudo apt-get install ceph ceph-mds
```

INSTALLING WITH RPM

To install Ceph with RPMs, execute the following steps:

1. Install yum-plugin-priorities.

   ```
   sudo yum install yum-plugin-priorities
   ```

2. Ensure /etc/yum/pluginconf.d/priorities.conf exists.

3. Ensure priorities.conf enables the plugin.

   ```
   [main]
   enabled = 1
   ```

4. Ensure your YUM ceph.repo entry includes priority=2. See Get Packages for details:

   ```
   [ceph]
   name=Ceph packages for $basearch
   baseurl=https://download.ceph.com/rpm-{ceph-release}/{distro}/$basearch
   enabled=1
   priority=2
   gpgcheck=1
   gpgkey=https://download.ceph.com/keys/release.asc

   [ceph-noarch]
   name=Ceph noarch packages
   baseurl=https://download.ceph.com/rpm-{ceph-release}/{distro}/noarch
   enabled=1
   priority=2
   gpgcheck=1
   gpgkey=https://download.ceph.com/keys/release.asc

   [ceph-source]
   name=Ceph source packages
   baseurl=https://download.ceph.com/rpm-{ceph-release}/{distro}/SRPMS
   enabled=0
   priority=2
   gpgcheck=1
   gpgkey=https://download.ceph.com/keys/release.asc
   ```

5. Install pre-requisite packages:

   ```
   sudo yum install snappy leveldb gdisk python-argparse gperftools-libs
   ```

Once you have added either release or development packages, or added a `ceph.repo` file to `/etc/yum.repos.d`, you can install Ceph packages.

```
sudo yum install ceph
```

INSTALLING A BUILD

If you build Ceph from source code, you may install Ceph in user space by executing the following:

```
sudo make install
```

If you install Ceph locally, `make` will place the executables in `usr/local/bin`. You may add the Ceph configuration file to the `usr/local/bin` directory to run Ceph from a single directory.