INSTALLATION

The Ceph Object Store is the foundation of all Ceph clusters, and it consists primarily of two types of daemons: Object Storage Daemons (OSDs) and monitors. The Ceph Object Store is based upon the concept of RADOS, which eliminates single points of failure and delivers infinite scalability. For details on the architecture of Ceph and RADOS, refer to Ceph Architecture. All Ceph deployments have OSDs and monitors, so you should prepare your Ceph cluster by focusing first on the object storage cluster.

RECOMMENDATIONS

To begin using Ceph in production, you should review our hardware recommendations and operating system recommendations. Many of the frequently-asked questions in our mailing list involve hardware-related questions and how to install Ceph on various distributions.

- Hardware Recommendations
  - CPU
  - RAM
  - Data Storage
  - Networks
  - Failure Domains
  - Minimum Hardware Recommendations
  - Production Cluster Example
- OS Recommendations
  - Ceph Dependencies
  - Platforms

INSTALLATION

If you are deploying a Ceph cluster (that is, not developing Ceph), install Ceph using our stable release packages. For testing, you may install development release and testing packages.

- Installing Debian/Ubuntu Packages
  - Install Release Key
  - Add Release Packages
  - Installing Packages
- Installing RPM Packages
  - Install Release Key
  - Add Release Packages
  - Installing Packages
- Upgrading Ceph
  - Argonaut to Bobtail
  - Argonaut to Cuttlefish
  - Bobtail to Cuttlefish
  - Upgrade Procedures

BUILDING CEPH FROM SOURCE

You can build Ceph from source by downloading a release or cloning the ceph repository at github. If you intend to build Ceph from source, please see the build pre-requisites first. Making sure you have all the pre-requisites will save you time.

- Prerequisites
- Get a Tarball
- Set Up Git
- Clone the Source
- Build the Source
- Install CPU Profiler
- Build a Package
- Contributing Code