

PREFLIGHT CHECKLIST

New in version 0.60.

This **Preflight Checklist** will help you prepare an admin node for use with ceph-deploy, and server nodes for use with passwordless ssh and sudo.

Before you can deploy Ceph using ceph-deploy, you need to ensure that you have a few things set up first on your admin node and on nodes running Ceph daemons.

INSTALL AN OPERATING SYSTEM

Install a recent release of Debian or Ubuntu (e.g., 16.04 LTS) on your nodes. For additional details on operating systems or to use other operating systems other than Debian or Ubuntu, see [OS Recommendations](#).

INSTALL AN SSH SERVER

The ceph-deploy utility requires ssh, so your server node(s) require an SSH server.

```
sudo apt-get install openssh-server
```

CREATE A USER

Create a user on nodes running Ceph daemons.

Tip: We recommend a username that brute force attackers won't guess easily (e.g., something other than root, ceph, etc).

```
ssh user@ceph-server
sudo useradd -d /home/ceph -m ceph
sudo passwd ceph
```

ceph-deploy installs packages onto your nodes. This means that the user you create requires passwordless sudo privileges.

Note: We **DO NOT** recommend enabling the root password for security reasons.

To provide full privileges to the user, add the following to /etc/sudoers.d/ceph.

```
echo "ceph ALL = (root) NOPASSWD:ALL" | sudo tee /etc/sudoers.d/ceph
sudo chmod 0440 /etc/sudoers.d/ceph
```

CONFIGURE SSH

Configure your admin machine with password-less SSH access to each node running Ceph daemons (leave the passphrase empty).

```
ssh-keygen
Generating public/private key pair.
Enter file in which to save the key (/ceph-client/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /ceph-client/.ssh/id_rsa.
Your public key has been saved in /ceph-client/.ssh/id_rsa.pub.
```

Copy the key to each node running Ceph daemons:

```
ssh-copy-id ceph@ceph-server
```

Modify your `~/.ssh/config` file of your admin node so that it defaults to logging in as the user you created when no username is specified.

```
Host ceph-server
    Hostname ceph-server.fqdn-or-ip-address.com
    User ceph
```

INSTALL CEPH-DEPLOY

To install `ceph-deploy`, execute the following:

```
wget -q -O- 'https://download.ceph.com/keys/release.asc' | sudo apt-key add -
echo deb http://ceph.com/debian-dumpling/ $(lsb_release -sc) main | sudo tee /etc/apt/sources
sudo apt-get update
sudo apt-get install ceph-deploy
```

ENSURE CONNECTIVITY

Ensure that your Admin node has connectivity to the network and to your Server node (e.g., ensure `iptables`, `ufw` or other tools that may prevent connections, traffic forwarding, etc. to allow what you need).

Once you have completed this pre-flight checklist, you are ready to begin using `ceph-deploy`.