

## CEPH OBJECT GATEWAY QUICK START

As of *firefly* (v0.80), Ceph Storage dramatically simplifies installing and configuring a Ceph Object Gateway. The Gateway daemon embeds Civetweb, so you do not have to install a web server or configure FastCGI. Additionally, `ceph-deploy` can install the gateway package, generate a key, configure a data directory and create a gateway instance for you.

**Tip:** Civetweb uses port 7480 by default. You must either open port 7480, or set the port to a preferred port (e.g., port 80) in your Ceph configuration file.

To start a Ceph Object Gateway, follow the steps below:

### INSTALLING CEPH OBJECT GATEWAY

1. Execute the pre-installation steps on your `client-node`. If you intend to use Civetweb's default port 7480, you must open it using either `firewall-cmd` or `iptables`. See [Preflight Checklist](#) for more information.
2. From the working directory of your administration server, install the Ceph Object Gateway package on the `client-node` node. For example:

```
ceph-deploy install --rgw <client-node> [<client-node> ...]
```

### CREATING THE CEPH OBJECT GATEWAY INSTANCE

From the working directory of your administration server, create an instance of the Ceph Object Gateway on the `client-node`. For example:

```
ceph-deploy rgw create <client-node>
```

Once the gateway is running, you should be able to access it on port 7480. (e.g., `http://client-node:7480`).

### CONFIGURING THE CEPH OBJECT GATEWAY INSTANCE

1. To change the default port (e.g., to port 80), modify your Ceph configuration file. Add a section entitled `[client.rgw.<client-node>]`, replacing `<client-node>` with the short node name of your Ceph client node (i.e., `hostname -s`). For example, if your node name is `client-node`, add a section like this after the `[global]` section:

```
[client.rgw.client-node]
rgw_frontends = "civetweb port=80"
```

**Note:** Ensure that you leave no whitespace between `port=<port-number>` in the `rgw_frontends` key/value pair.

**Important:** If you intend to use port 80, make sure that the Apache server is not running otherwise it will conflict with Civetweb. We recommend to remove Apache in this case.

2. To make the new port setting take effect, restart the Ceph Object Gateway. On Red Hat Enterprise Linux 7 and Fedora, run the following command:

```
sudo systemctl restart ceph-radosgw.service
```

On Red Hat Enterprise Linux 6 and Ubuntu, run the following command:

```
sudo service radosgw restart id=rgw.<short-hostname>
```

3. Finally, check to ensure that the port you selected is open on the node's firewall (e.g., port 80). If it is not open, add the

port and reload the firewall configuration. For example:

```
sudo firewall-cmd --list-all
sudo firewall-cmd --zone=public --add-port 80/tcp --permanent
sudo firewall-cmd --reload
```

See [Preflight Checklist](#) for more information on configuring firewall with `firewall-cmd` or `iptables`.

You should be able to make an unauthenticated request, and receive a response. For example, a request with no parameters like this:

```
http://<client-node>:80
```

Should result in a response like this:

```
<?xml version="1.0" encoding="UTF-8"?>
<ListAllMyBucketsResult xmlns="http://s3.amazonaws.com/doc/2006-03-01/">
  <Owner>
    <ID>anonymous</ID>
    <DisplayName></DisplayName>
  </Owner>
  <Buckets>
  </Buckets>
</ListAllMyBucketsResult>
```

See the [Configuring Ceph Object Gateway](#) guide for additional administration and API details.