

# INSTALL APACHE, FASTCGI AND RADOS GW

**Note:** If you deploy Ceph with Chef cookbooks, you may skip this section.

## INSTALL PACKAGES

To install RADOS Gateway, you must install Apache and FastCGI first.

```
sudo apt-get update && sudo apt-get install apache2 libapache2-mod-fastcgi
```

## 100-CONTINUE SUPPORT

The Ceph community provides a slightly optimized version of the `apache2` and `fastcgi` packages. The material difference is that the Ceph packages are optimized for the 100-continue HTTP response, where the server determines if it will accept the request by first evaluating the request header. See [RFC 2616, Section 8](#) for details on 100-continue. You can find the Apache and FastCGI packages modified for Ceph here:

- [Apache Oneiric](#)
- [Apache Precise](#)
- [FastCGI Oneric](#)
- [FastCGI Precise](#)

You may also clone Ceph's Apache and FastCGI git repositories:

```
git clone --recursive https://github.com/ceph/mod_fastcgi.git
git clone --recursive https://github.com/ceph/apache2.git
```

**Important:** If you do NOT use a modified `fastcgi` as described above, you should disable 100-Continue support by adding the following to your `ceph.conf`:

```
rgw print continue = false
```

## APACHE CONFIGURATION

Enable the URL rewrite modules for Apache and FastCGI. For example:

```
sudo a2enmod rewrite
sudo a2enmod fastcgi
```

By default, the `/etc/apache2/httpd.conf` file is blank. Add a line for the `ServerName` and provide the fully qualified domain name of the host where you will install RADOS GW. For example:

```
ServerName {fqdn}
```

Restart Apache so that the foregoing changes take effect.

```
sudo service apache2 restart
```

Then, install RADOS Gateway. For example:

```
sudo apt-get install radosgw
```

## ENABLE SSL

Some REST clients use HTTPS by default. So you should consider enabling SSL for Apache on the server machine.

```
sudo a2enmod ssl
```

Once you enable SSL, you should generate an SSL certificate.

```
sudo mkdir /etc/apache2/ssl  
sudo openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/apache2/ssl/apache.key
```

Then, restart Apache.

```
service apache2 restart
```