
OpenGeo Suite for Linux

Release 2.4.4

OpenGeo

January 02, 2012

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This document describes how to install the OpenGeo Suite for Linux. There are two editions of the OpenGeo Suite for Linux: Community Edition and Enterprise Edition. The instructions differ depending on which version you have. Each Edition is available for RPM-based systems and Debian (APT)-based systems. Please see the section appropriate for your software.

The OpenGeo Suite has the following system requirements:

- Operating System: Ubuntu 10.04 and 10.10, CentOS 5
- Memory: 512MB minimum (1GB recommended)
- Disk space: 500MB minimum (plus extra space for any loaded data)
- Browser: Any modern web browser is supported (Internet Explorer 6+, Firefox 3+, Chrome 2+, Safari 3+)
- Permissions: Super user privileges are required for installation

1 OpenGeo Suite Community Edition

Packages for the OpenGeo Suite Community Edition are currently available in both *RPM* (CentOS/Red Hat/Fedora) and *APT* (Ubuntu/Debian) formats.

Note: The commands contained in the following installation instructions must be run as a user with root privileges, or prefixed with `sudo`.

1.1 RPM Installation

Note: If you are upgrading from a previous version, jump to the section entitled *RPM Upgrade*.

Warning: The RPM packages are only compatible with CentOS 5 and above.

1. Begin by adding the OpenGeo YUM repository:

For 32 bit systems:

```
cd /etc/yum.repos.d
wget http://yum.opengeo.org/centos/5/i386/OpenGeo.repo
```

For 64 bit systems:

```
cd /etc/yum.repos.d
wget http://yum.opengeo.org/centos/5/x86_64/OpenGeo.repo
```

2. Update YUM:

```
yum update
```

3. Install the OpenGeo Suite package (`opengeo-suite`):

```
yum install opengeo-suite
```

4. If the previous command returns an error, the OpenGeo repository may not have been added properly. Examine the output of the `yum` command for any errors or warnings.

5. You can launch the OpenGeo Suite Dashboard (and verify the installation was successful) by navigating to the following URL:

```
http://localhost:8080/dashboard/
```

Continue reading at the *After installation* section.

1.2 RPM Upgrade

Warning: If upgrading from before 2.4.2, the “medford” PostGIS database will be deleted and recreated on upgrade. So if you have any data in that database that you would like to keep, please back it up prior to upgrading (using `pg_dump` is recommended).

1. Begin by updating YUM:

```
yum update
```

2. The relevant OpenGeo packages should be included in the upgrade list. If you do not wish to do a full update, cancel the upgrade and install the `opengeo-suite` package manually:

```
yum install opengeo-suite
```

1.3 APT Installation

Note: If you are upgrading from a previous version, jump to the section entitled *APT Upgrade*.

Warning: The APT packages are only available for Ubuntu 10.04 and above.

1. Begin by importing the OpenGeo GPG key:

```
wget -qO- http://apt.opengeo.org/gpg.key | apt-key add -
```

2. Add the OpenGeo APT repository:

```
echo "deb http://apt.opengeo.org/ubuntu lucid main" >> /etc/apt/sources.list
```

3. Update APT:

```
apt-get update
```

4. Install the OpenGeo Suite package (opengeo-suite):

```
apt-get install opengeo-suite
```

5. If the previous command returns an error, the OpenGeo repository may not have been added properly. Examine the output of the `yum` command for any errors or warnings.
6. You can launch the OpenGeo Suite Dashboard (and verify the installation was successful) by navigating to the following URL:

```
http://localhost:8080/dashboard/
```

Continue reading at the *After installation* section.

1.4 APT Upgrade

1. Begin by updating APT:

```
apt-get update
```

2. Update the opengeo-suite package:

```
apt-get install opengeo-suite
```

Continue reading at the *After installation* section.

2 OpenGeo Suite Enterprise Edition

Packages for the OpenGeo Suite Enterprise Edition are currently available in both *RPM* (CentOS/Red Hat/Fedora) and *APT* (Ubuntu/Debian) formats.

Note: The commands contained in the following installation instructions must be run as a user with root privileges, or prefixed with `sudo`.

2.1 RPM Installation

Note: If you are upgrading from a previous version, jump to the section entitled *RPM Upgrade*.

Warning: The RPM packages are only compatible with CentOS 5 and above.

1. Begin by adding the OpenGeo YUM repository:

For 32 bit systems:

```
cd /etc/yum.repos.d
wget http://yum.opengeo.org/centos/5/i386/OpenGeo.repo
```

For 64 bit systems:

```
cd /etc/yum.repos.d
wget http://yum.opengeo.org/centos/5/x86_64/OpenGeo.repo
```

2. Now add the OpenGeo Enterprise YUM repository. This repository is password protected. You will have received a username and password when you registered for the Enterprise Edition. Add the following YUM repository using the commands below, making sure to substitute in your username for <username> and password for <password>.

For 32 bit systems:

```
cd /etc/yum.repos.d
wget --user='<username>' --password='<password>' http://yum-ee.opengeo.org/centos/5/i386/OpenGeo.repo
```

For 64 bit systems:

```
cd /etc/yum.repos.d
wget --user='<username>' --password='<password>' http://yum-ee.opengeo.org/centos/5/x86_64/OpenGeo.repo
```

3. Edit the OpenGeoEE.repo file filling in your username and password.
4. Update YUM:

```
yum update
```
5. Install the `opengeo-suite-ee` package:

```
yum install opengeo-suite-ee
```
6. If the previous command returns an error, the OpenGeo repositories may not have been added properly. Examine the output of the `yum` command for any errors or warnings.
7. You can launch the OpenGeo Suite Dashboard (and verify the installation was successful) by navigating to the following URL:

```
http://localhost:8080/dashboard/
```

Continue reading at the *After installation* section.

2.2 RPM Upgrade

Warning: If upgrading from before 2.4.2, the “medford” PostGIS database will be deleted and recreated on upgrade. So if you have any data in that database that you would like to keep, please back it up prior to upgrading (using `pg_dump` is recommended).

1. Begin by updating YUM:

```
yum update
```

2. The relevant OpenGeo packages should be included in the upgrade list. If you do not wish to do a full update, cancel the upgrade and install the `opengeo-suite` package manually:

```
yum install opengeo-suite-ee
```

2.3 APT Installation

Note: If you are upgrading from a previous version, jump to the section entitled *APT Upgrade*.

Warning: The APT packages are only available for Ubuntu 10.04 and above.

1. Begin by importing the OpenGeo GPG key:

```
wget -qO- http://apt.opengeo.org/gpg.key | apt-key add -
```

2. Add the OpenGeo APT repository:

```
echo "deb http://apt.opengeo.org/ubuntu lucid main" >> /etc/apt/sources.list
```

3. Now add the OpenGeo Enterprise APT repository. This repository is password protected. You will have received a username and password when you registered for the Enterprise Edition. Add the following APT repository using the command below, making sure to substitute in your username for <username> and password for <password>.

```
echo "deb http://<username>:<password>@apt-ee.opengeo.org/ubuntu lucid main" >> /etc/apt/sources.list
```

4. Update APT:

```
apt-get update
```

5. Install the OpenGeo Suite package (opengeo-suite-ee):

```
apt-get install opengeo-suite-ee
```

6. If the previous command returns an error, the OpenGeo repository may not have been added properly. Examine the output of the `yum` command for any errors or warnings.
7. You can launch the OpenGeo Suite Dashboard (and verify the installation was successful) by navigating to the following URL:

```
http://localhost:8080/dashboard/
```

Continue reading at the *After installation* section.

2.4 APT Upgrade

1. Begin by updating APT:

```
apt-get update
```

2. Update the opengeo-suite-ee package:

```
apt-get install opengeo-suite-ee
```

Continue reading at the *After installation* section.

3 After installation

3.1 List of packages

Once installed, you will have the following packages installed on your system:

Package	Name	Description
opengeo-suite	OpenGeo Suite	The full OpenGeo Suite and all its contents. All packages listed below are installed as dependencies with this package. Contains GeoExplorer, Styler, GeoEditor, Dashboard, Recipe Book, and more.
opengeo-docs	OpenGeo Suite Documentation	Full documentation for the OpenGeo Suite.
opengeo-geoserver	GeoServer	High performance, standards-compliant map and geospatial data server.
opengeo-jai	Java Advanced Imaging (JAI)	Set of Java toolkits to provide enhanced image rendering abilities.
opengeo-postgis	PostGIS	Robust, spatially-enabled object-relational database built on PostgreSQL.
opengeo-suite-data	OpenGeo Suite Data	Sample data for use with the OpenGeo Suite.
pgadmin3	pgAdmin III	Graphical client for interacting with PostgreSQL/PostGIS.
opengeo-suite-ee (Enterprise Edition only)	OpenGeo Suite Enterprise Edition package	Enterprise Edition functions and libraries.

3.2 Starting/Stopping the OpenGeo Suite

GeoServer, GeoExplorer, and all other web-based containers including the documentation are installed into the existing Tomcat instance on the machine. Starting and stopping these applications are therefore accomplished by managing them through the standard Tomcat instance. Tomcat is installed as a service under the name of **tomcat5**, and can be managed accordingly:

```
/etc/init.d/tomcat5 start
/etc/init.d/tomcat5 stop
```

PostGIS is also installed as a service, under the name of **postgresql**, and can be managed in the same way as Tomcat:

```
/etc/init.d/postgresql start
/etc/init.d/postgresql stop
```

Both services are started and set to run automatically when the OpenGeo Suite is installed.

3.3 Accessing web applications

The easiest way to launch the web-based applications contained in the OpenGeo Suite is via the Dashboard. All web applications are linked from this application. The Dashboard is accessible via the following URL:

```
http://localhost:8080/dashboard/
```

Note: You will need to change the port number if your Tomcat installation is serving on a different port.

Application	URL
OpenGeo Suite Dashboard	http://localhost:8080/dashboard/
GeoServer	http://localhost:8080/geoserver/
OpenGeo Suite Documentation	http://localhost:8080/docs/
GeoExplorer	http://localhost:8080/geoexplorer/
Styler	http://localhost:8080/styler/
GeoEditor	http://localhost:8080/geoeditor/
OpenGeo Recipe Book	http://localhost:8080/recipes/

3.4 Accessing PostGIS

You can access PostGIS in one of two ways: via the command line with the **psql** application, or via a graphical interface with the **pgadmin3** application. Both commands should be on the path and can be invoked from any Terminal window. If unfamiliar with PostGIS, start with **pgadmin3**.

This version of PostGIS is running on port 5432, with administrator username and password **opengeo / opengeo**.