

# Source Code

## How to get source code

HUBzero is an Open Source project. Source code for each distributed package is available. There are source packages for Debian 6 and 7 as well as RedHat Enterprise Server 6. Additionally some parts are also available via GitHub (with more coming soon). See below for details.

## Debian Packages

Source code for the HUBzero Debian packages is available via Debian Source Packages. These can be obtained using standard Debian package management tools. First you need to configure the location of the HUBzero source package repository by adding the following line to `/etc/apt/sources.list`

For Debian 6:

```
deb-src http://packages.hubzero.org/deb diego-deb6 main
```

For Debian 7:

```
deb-src http://packages.hubzero.org/deb diego-deb7 main
```

You will need to get and install the hubzero archive key to be able to verify packages from the hubzero archive:

```
apt-key adv --keyserver pgp.mit.edu --recv-keys 143C99EF
```

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Once the public key for <http://packages.hubzero.org> has been installed, you can request the hubzero source code for each package:

```
apt-get source packageName
```

where *packageName* is the desired package from the table below. Not all are necessarily used for any given installation.

<i>Package Name</i>	<i>Purpose</i>
hubzero-app	Command line tool to manage installation/publishing of HUBzero apps
hubzero-app-workspace	HUBzero App providing a lightweigh Linux desktop, for app/tool development
hubzero-chuse	HUBzero graphical front end to the user environment manager 'use'
hubzero-cli	HUBzero command line interface tools
hubzero-cms-1.3.1	The HUBzero Content Management System (based on Joomla! framework)
hubzero-expire-sessions	Expires unused app/tool sessions
hubzero-filexfer	Transfer files between App Sessions and user's desktop
hubzero-filexfer-xlate	Support daemon for the filexfer program
hubzero-firewall	HUBzero firewall that protects app/tool sessions
hubzero-forge	Creates project areas for tool development
hubzero-icewm	Linux ICE window manager configuration, used in workspaces
hubzero-icewm-captive	Linux ICE window manager specially crafted to support tools in a sessions
hubzero-icewm-themes	The HUBzero Linux ICE window manager theme, used in workspaces
hubzero-invokeapp	HUBzero application invoke script
hubzero-mailgateway	HUBzero mail gateway
hubzero-metrics	HUBzero metrics support package
hubzero-mw-client	HUBzero middleware - client
hubzero-mw-service	HUBzero middleware - execution host session manager
hubzero-mw-session	HUBzero middleware - per session tools
hubzero-mysql	MySQL configuration package for HUBzero
hubzero-openldap	OpenLDAP configuration package for HUBzero
hubzero-openvz	OpenVZ configuration package for HUBzero
hubzero-policyrcd	HUBzero policy-rc.d for invoke-rc.d
hubzero-python	HUBzero python API module
hubzero-rapture	The Rapid APPLication infrastrucTURE toolkit

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hubzero-rappture-session	for building scientific tools
hubzero-ratpoison-captive	Session support packages for Rappture
	Linux window manager, used in app/tool sessions
hubzero-submit-client	HUBzero submit client
hubzero-submit-common	HUBzero submit common python library
hubzero-submit-condor	HUBzero condor build for hubzero-submit
hubzero-submit-distributor	HUBzero middleware submit distributor
hubzero-submit-monitors	HUBzero middleware submit monitors
hubzero-submit-pegasus	HUBzero pegasus build for hubzero-submit
hubzero-submit-server	HUBzero job submission server
hubzero-subversion	HUBzero Subversion support package
hubzero-telequotad	Disk quota monitor
hubzero-textifier	HUBzero textifier
hubzero-texvc	Helper utility to generate math fomulas for wiki markup
hubzero-tigervnc-server	X/VNC server for remote display of HUBzero tool sessions
hubzero-trac	HUBzero Trac support package
hubzero-trac-mysqlauthz	Plug-in for MySQL user auth in project development areas
hubzero-twm-captive	Linux TWM window manager, used in app/tool sessions
hubzero-use	Command for configuring the environment within a workspace
hubzero-use-apps	HUBzero apps environment for 'use'
hubzero-usermap	File permission mapping FUSE filesystem used by WebDAV
hubzero-vncproxy	HUBzero VNC proxy helper
hubzero-webdav	HUBzero WebDAV support package
libapache2-vncproxy	HUBzero vncproxy module for apache2-mpm-prefork
php5-oauth	OAuth PECL Library for PHP 5
php5-stem	Stemming PECL Library for PHP5

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tightvnc-java

Modified VNC Client that receives app/tool sessions within a web browser

## RedHat Packages

To be announced.

## GitHub

The raw source code to the HUBzero CMS is available on [github.com](https://github.com)

<https://github.com/hubzero/hubzero-cms> on branch 1.3.1 (do not use the master branch)

Note that you can not install the HUBzero CMS using just this repository. You need to use the packages for Debian or Redhat.

Over time the full package source trees will get posted to github.