

Upgrading from 1.3.1

Performing the upgrade

This is a manual process due to the wide range of possible site configurations. So you will need to adapt to the specific needs of your HUBzero installation as necessary. The steps outlined below have been tested with the HUBzero 1.3.1 VMWare virtual machine image we distributed at the HUBbub 2015 Conference.

Some instructions will differ depending on how your site was installed. We have highlighted items like passwords, template names, and hub names which you may need to substitute with values specific to your hub. The text given here is valid for the HUBzero VMware virtual machine image that was distributed at the Hubbub 2015 Conference.

All actions listed here must be performed as the root user.

You changed your root password right? If hubzero2015 is still your root password you really must change it as soon as possible.

Using a terminal, log into the host.

```
example.com login: root
Password: hubzero2015
```

The first thing that needs to be done is update the available package list, otherwise package installations will fail with obsolete package references.

```
apt-get update
```

In the case of the HUBzero 2015 VMware virtual machine image the Network Time Protocol daemon isn't running so the time and date on the site could be wrong. While not critical, updating this can eliminate a number of warning errors that might otherwise be confusing. Let's install the ntp package.

```
apt-get install -y ntp
```

Then manually have it update the time and wait 10 seconds to give it enough time to take effect.

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```
ntpd -gq
```

```
sleep 10
```

Now we will back up the HUBzero databases and the HUBzero CMS installation. We do not back up the "site" directory here, you may do so as you see fit. Be careful, some of these lines are wrapping around but are supposed to be on a single line. Remember to replace "mytemplate" with the name of any custom template you may be using.

```
cd /root
```

```
mysqldump --defaults-file=/etc/mysql/debian.cnf --default-character-set=utf8 --skip-extended-insert --compact --order-by-primary --result-file=example.`date +%Y%m%d`.sql example
```

```
mysqldump --defaults-file=/etc/mysql/debian.cnf --default-character-set=utf8 --skip-extended-insert --compact --order-by-primary --result-file=example-metrics.`date +%Y%m%d`.sql example_metrics
```

```
tar -czf template-mytemplate  
.`date +%Y%m%d`.tar.gz -C /var/www/example/templates mytemplate
```

```
tar -czf cms.`date +%Y%m%d`.tar.gz -C /var/www/example --exclude=site/* .
```

Next we will make sure your HUBzero 1.3.1 and Debian 7 installation is completely up to date to ensure the upgrade to HUBzero 2.0.0 will go smoothly. If you are running Debian 6 you will need to upgrade to Debian 7 first (which is outside the scope of this document). The next step will rewrite your package repository configuration, if you have customized yours you can just update the lines related to `packages.hubzero.org` to change the HUBzero package repository

"ellie-deb7". Copy and paste the all of the following as one command:

```
cat << HERE > /etc/apt/sources.list
deb http://ftp.us.debian.org/debian/ wheezy main contrib non-free
deb-src http://ftp.us.debian.org/debian/ wheezy main contrib non-free

deb http://ftp.us.debian.org/debian/ wheezy-updates main contrib non-free
deb-src http://ftp.us.debian.org/debian/ wheezy-updates main contrib non-free

deb http://security.debian.org/ wheezy/updates main contrib non-free
deb-src http://security.debian.org/ wheezy/updates main contrib non-free

deb http://download.openvz.org/debian wheezy main

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

Now we can do the actual package upgrade. We perform a "dist-upgrade" instead of a simple "upgrade" because we are changing the HUBzero package repository and this causes a change in package dependencies that can only be resolved during a full "dist-upgrade." We found during testing that stopping the mysql server manually was necessary.

```
apt-get update
```

```
apt-get dist-upgrade -y
```

While running it will ask you a few interactive questions which you may want to answer as follows:

- page through any upgrade notices it displays and continue
- /etc/vz/vz.conf update (Y, install the package maintainer's version)
- /etc/submit/submit-server.conf (Y, install the package maintainer's version)

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Do some cleanup.

```
apt-get clean
```

```
apt-get autoremove -y
```

Update the existing HUBzero 1.3.1 installation with the most recent version (updated during previous step).

```
hzcms update
```

Install the HUBzero 2.0.0 package.

```
apt-get install -y hubzero-cms-2.0.0
```

Apply the HUBzero CMS 2.0.0 package to the current instance and let it reapply any configuration that may have been undone by the operating system upgrade. We also re-enable webdav and openvz so that their configuration files get updated (they were replaced during the operating system upgrade).

```
hzcms update
```

```
hzcms configure openvz --enable
```

Reboot to apply the new kernel that was installed during the operating system upgrade.

```
reboot
```

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Remove old hubzero-cms packages that are no longer needed.

```
apt-get purge -y hubzero-cms-1.2.0
```

```
apt-get purge -y hubzero-cms-1.3.1
```

Clean up cached packages one more time then reboot to make sure everything is working correctly. This reboot should be relatively quick.

```
apt-get clean
```

```
reboot
```

Update the tool container image to the HUBzero 2.0 (ellie) repository, if you don't have any Debian 7 tool container images you can skip this section.

```
chroot /var/lib/vz/template/debian-7.0-amd64-maxwell
```

```
cat << HERE > /etc/apt/sources.list
deb http://ftp.us.debian.org/debian/ wheezy main contrib non-free
deb-src http://ftp.us.debian.org/debian/ wheezy main contrib non-free

deb http://ftp.us.debian.org/debian/ wheezy-updates main contrib non-free
deb-src http://ftp.us.debian.org/debian/ wheezy-updates main contrib non-free

deb http://security.debian.org/ wheezy/updates main contrib non-free
deb-src http://security.debian.org/ wheezy/updates main contrib non-free

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

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HERE

```
apt-get update
```

Install the hubzero-policyrcd package which will prevent all future package installations and updates for this container image from stopping or restarting services (which would start/stop services running on the host which would not be a good thing).

```
apt-get install -y hubzero-policyrcd
```

Some packages require access to the /proc filesystem to get information about the system. Mount this special filesystem inside the container image chroot environment.

```
mount -t proc proc /proc
```

Switch to HUBzero 2.0 repository and upgrade packages.

```
apt-get dist-upgrade -y
```

After the upgrade is complete unmount the temporary /proc mount and remove any packages that are no longer needed.

```
umount /proc
```

```
apt-get autoremove -y
```

Remove any cached packages from the image in order to conserve disk space and exit the chroot environment.

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```
apt-get clean
```

```
exit
```

Switch to the new HUBzero 2.0.0 template (Kimera). See the last section to upgrade your custom template, if you have one.

Login to /administrator with the username 'admin' and the JOOMLA-ADMIN password in /etc/hubzero.secrets.

From the main menu is /administrator go to
Extension Manager -> Template Manager -> Click on the star for the Kimera (site) template in the default column.

That's it. Your hub should now be upgraded to HUBzero 2.0.0!

Upgrading a custom template

If you modified a default HUBzero template (hubbasic2012, hubbasic2013) without copying it to a new name you will need to restore it from the backups we made earlier as the upgrade process overwrites the standard HUBzero templates. Restoring this old template will likely break your site as your template will need to be upgraded to be compatible with this version of the HUBzero CMS. The web developer [upgrade notes](#) outline the basic changes that will be needed for your template, this should include renaming your template as it will now conflict with a core template name.

```
cd /var/www/example/app/templates
```

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```
tar -xvpf /root/template-mytemplate.`date +%Y%m%d`.tar.gz
```