

Updating Drupal



Tri-Valley Drupal Users Group

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Drupal

References and Credits

- Definitive Guide to Drupal 7 *(Chap 7 & 26)*
- UPGRADE.txt *(Drupal core)*
- update.php *(Drupal core – changed in D6/D7)*
- kristen.org *(<http://www.kristen.org/content/updating-drupal-site-code-command-line>)*



What is an “update”?

- Minor point upgrade of Drupal core
 - Drupal 7.8 to 7.9
 - Drupal 6.12 to 6.26
 - You can make “big” jumps like this within a given release
- Minor point upgrade of a Drupal module
 - pathauto 7.x-1.0 to 7.x-1.1
 - pathauto 6.x-1.5 to 6.x-2.0 *(could be tricky – “major” version upgrade)*



Why update?

- Security fixes
 - Vulnerability is known once fix is out
- Feature updates
 - Some lay groundwork for major version upgrades



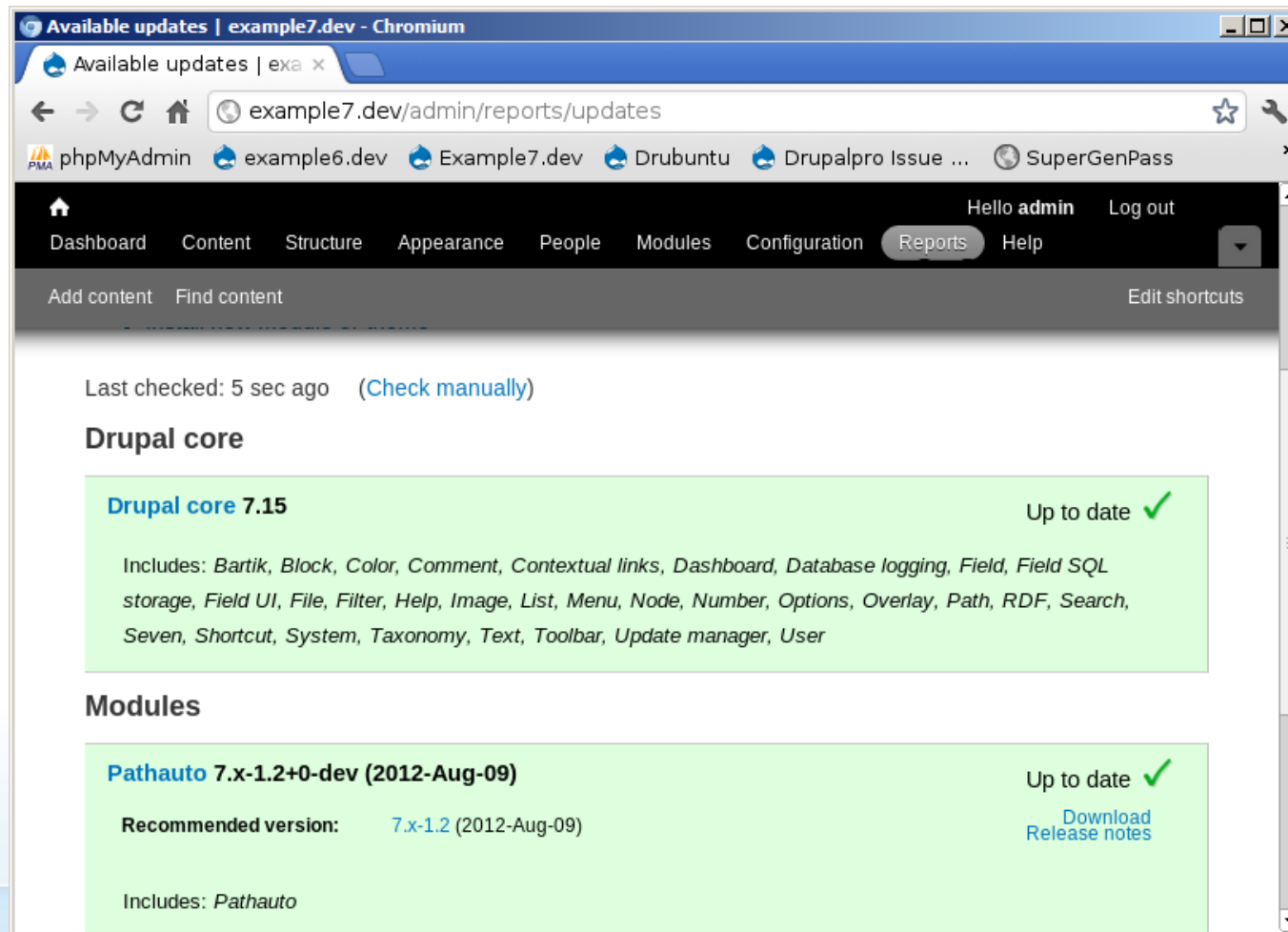
Why not update?

- Feature-only update
 - Don't need feature
- Security fix for module you don't use
 - ex. fix only for issue in Aggregator module which you don't use
- Currently, feature-only updates are not separated from security-only updates



Check version status (web)

- `/admin/reports/updates`



Available updates | example7.dev - Chromium

example7.dev/admin/reports/updates

phpMyAdmin example6.dev Example7.dev Drubuntu Drupalpro Issue ... SuperGenPass

Dashboard Content Structure Appearance People Modules Configuration Reports Help

Add content Find content Edit shortcuts

Hello admin Log out

Last checked: 5 sec ago [\(Check manually\)](#)

Drupal core

Drupal core 7.15 Up to date ✓

Includes: *Bartik, Block, Color, Comment, Contextual links, Dashboard, Database logging, Field, Field SQL storage, Field UI, File, Filter, Help, Image, List, Menu, Node, Number, Options, Overlay, Path, RDF, Search, Seven, Shortcut, System, Taxonomy, Text, Toolbar, Update manager, User*

Modules

Pathauto 7.x-1.2+0-dev (2012-Aug-09) Up to date ✓

Recommended version: [7.x-1.2 \(2012-Aug-09\)](#) [Download Release notes](#)

Includes: *Pathauto*



Update preparation

- Work on a backup
 - Local copy of files (version control)
 - Database dump (backup) file
 - “Other” files (images, user files etc.)
- Put site into maintenance mode
- Work during off time
- Update modules first? Probably...see later
- Have automated tests



Minor update methods

- **Manually** *(standard per UPGRADE.txt)*
- `drush pm-update` or `pm-updatecode/updatedb`
- **Apply diff patch**
 - Definitive Guide to Drupal 7 Chapter 7
- **Git branches**
 - <http://luhman.org/files/git-for-drupal.pdf> *(page 8)*
- **Drupal as a service (Pantheon, Acquia)**



Manual update method

- Said to be “safest”
- Disable modules? Not necessary per `UPGRADE.txt`
- Copy Drupal core files to temp directory
- Copy new files to web directory
 - Need to keep track of your custom and contrib files
 - `.htaccess`, `robots.txt`, `settings.php`
- Visit `update.php`
- Status at `/admin/reports/status`
- Return out of maintenance mode
- **Pretty tricky and error prone**



Drush update – modules

```
$ drush pm-updatecode --no-core
```

```
Checking available update data ...
```

```
Update information last refreshed: Thu, 08/16/2012 - 21:22
```

```
Update status information on all installed and enabled Drupal projects:
```

| Name | Installed version | Proposed version | Status |
|--------------------------|-------------------|------------------|-------------------------|
| Drupal | 7.14 | 7.15 | Update available |
| Pathauto (pathauto) | 7.x-1.2+0-dev | 7.x-1.2 | Up to date |
| Token (token) | 7.x-1.2 | 7.x-1.2 | Up to date |
| Webform (webform) | 7.x-3.17 | 7.x-3.18 | Update available |

```
Skipping core update (--no-core specified).
```

```
Code updates will be made to the following projects:
```

```
  Webform [webform-7.x-3.18]
```

```
Note: A backup of your project will be stored to backups directory if it is not managed by a supported version control system.
```

```
Note: If you have made any modifications to any file that belongs to one of these projects, you will have to migrate those modifications after updating.
```

```
Do you really want to continue with the update process? (y/n):
```



Drush update modules – cont.

```
$ git diff --stat
```

```
sites/all/modules/webform/components/file.inc      | 12 +++  
sites/all/modules/webform/components/grid.inc     |  4 +-  
sites/all/modules/webform/components/hidden.inc   |  9 --  
sites/all/modules/webform/components/number.inc   | 77 ++++++++-----  
sites/all/modules/webform/components/pagebreak.inc | 17 ++++  
...
```

```
$ drush updatedb
```

```
No database updates required
```

- *drush pm-update (up) equals pm-updatecode PLUS updatedb*

- `drush pm-update` has persistent `--lock` option to prevent module upgrades
- **Run unit tests** (*more later*)



Drush update core

```
$ drush pm-updatecode (same as drush upc)
```

```
Checking available update data ...
```

```
Update status information on all installed and enabled Drupal projects:
```

| Name | Installed version | Proposed version | Status |
|---------------------|-------------------|------------------|-------------------------|
| Drupal | 7.14 | 7.15 | Update available |
| Pathauto (pathauto) | 7.x-1.2+0-dev | 7.x-1.2 | Up to date |
| Token (token) | 7.x-1.2 | 7.x-1.2 | Up to date |
| Webform (webform) | 7.x-3.18 | 7.x-3.18 | Up to date |

```
Code updates will be made to drupal core.
```

```
WARNING: Updating core will discard any modifications made to Drupal core files, most noteworthy among these are .htaccess and robots.txt.
```

```
Note: Updating core can potentially break your site. It is NOT recommended to update production sites without prior testing.
```

```
Do you really want to continue? (y/n): y
```



Drush update core *(cont.)*

Project drupal was updated successfully. Installed version is now 7.15.

Backups were saved into the directory /home/drupalpro/drush-backups/example7_dev/20120817045139/drupal.

You have pending database updates. Run `drush updatedb` or visit update.php in your browser.

```
$ drush updatedb
```

```
The following updates are pending:
```

```
system module :
```

```
 7074 - This update has been removed and will not run.
```

```
Do you wish to run all pending updates? (y/n): y
```

```
Performed update: system_update_7074
```

```
Finished performing updates.
```



Drush update core (cont.)

```
$ git diff --stat
```

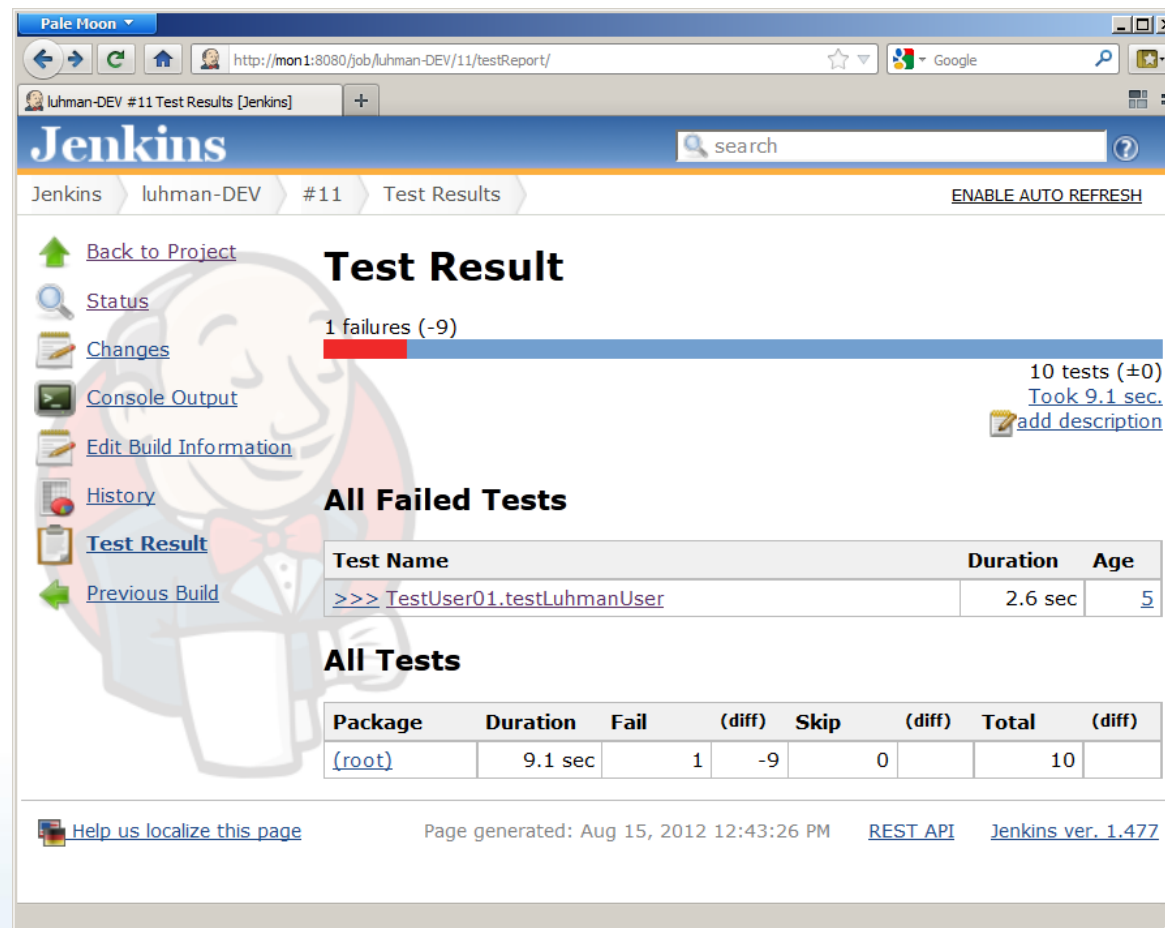
```
.htaccess | 2 +-  
CHANGELOG.txt | 52 ++-  
COPYRIGHT.txt | 25 +-  
MAINTAINERS.txt | 6 +-  
UPGRADE.txt | 2 +-  
authorize.php | 1 -  
includes/bootstrap.inc | 49 ++-  
includes/common.inc | 107 +++++--  
includes/database/database.inc | 9 +-  
...
```

Test and commit if good



Confirm with automated testing

- I use SimpleTest suites driven by Jenkins



The screenshot shows the Jenkins web interface for a test run. The browser address bar shows the URL `http://mon1:8080/job/luhman-DEV/11/testReport/`. The Jenkins header includes a search bar and a navigation breadcrumb: `Jenkins > luhman-DEV > #11 > Test Results`. A sidebar on the left contains links for `Back to Project`, `Status`, `Changes`, `Console Output`, `Edit Build Information`, `History`, `Test Result` (highlighted), and `Previous Build`. The main content area is titled `Test Result` and shows `1 failures (-9)` with a progress bar. Summary statistics indicate `10 tests (+0)` and `Took 9.1 sec.`, with an `add description` button. Below this is the `All Failed Tests` section, which contains a table with one entry:

| Test Name | Duration | Age |
|--|----------|-------------------|
| >>> TestUser01.testLuhmanUser | 2.6 sec | 5 |

At the bottom of the page is the `All Tests` section, which contains a summary table:

| Package | Duration | Fail | (diff) | Skip | (diff) | Total | (diff) |
|------------------------|----------|------|--------|------|--------|-------|--------|
| (root) | 9.1 sec | 1 | -9 | 0 | | 10 | |

Page footer information includes: `Help us localize this page`, `Page generated: Aug 15, 2012 12:43:26 PM`, `REST API`, and `Jenkins ver. 1.477`.



Review (from <http://www.kristen.org/content/updating-drupal-site-code-command-line>)

- **Backup** `drush archive-dump` *(includes files)*
- **Git housekeeping** `git status, tag`
- **Update Drupal core** `drush upc drupal, updatedb`
- **Apply custom patches if necessary**
- **Test site** `/admin/reports/dblog`
- **Git housekeeping** `git status, add, commit tag`
- **Update modules** `drush upc [modules], updatedb`



Thank you!

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