KEEPING DRUPAL UP-TO-DATE

Updating Drupal's Minor or Patch Version

Amber Himes Matz Twin Cities Drupal Camp June 2018



Amber Himes Matz Production Manager and Trainer

twitter.com/amberhimesmatz

drupalize me





Terms and assumptions Standard update procedure

Tips for using Drush and Composer

Related issues and resources

IN THIS SESSION







Vpdate To update Drupal core's minor or patch version, e.g. 8.4.0 to 8.5.4 or 8.5.2 to 8.5.4







Upgrade (see also "Migrate") To upgrade Drupal core from one major version to a higher one, e.g. 7.59 to 8.5.4 or 6.38 to 8.5.4



TALKING ABOUT INOT UPGRADING)

Drupal 8 uses semantic versioning

Alias "semver"

Composer uses it, too!

SEMANTIC VERSIONING







X = Major version >y = Minor version

Z = Patch version

SEMANIIC VERSIONING







x = Major: Breaking change. Not backwards compatible.

y = Minor: New feature(s), no breaking changes z = Patch: bug fix, security patch, no breaking

change

SEMANTIC VERSIONING







x = Major: Breaking change. Not backwards compatible.

y = Minor: New feature(s), no breaking changes z = Patch: bug fix, security patch, no breaking

change

SEMANTIC VERSIONING





Drupal releases a minor update every 6 months Patch releases occur as needed and may contain bug or security fixes







EVALUATE THE RELEASE



Minor release? x.y.z What new features does it have? Patch release? x.y.z Security release? Critical? Time-sensitive? **Bug fix?**





ASSUMPTIONS & PREREQUISITES



Drupal 8

ASSUMPTIONS







You have: Administer software updates permission, admin access, and file access





Vou know:

Command line basics and/or the ability to look up commands

But these are mostly shortcuts.)

ASSUMPTIONS





You know how to use:

Version control with Git

And you have a process for getting files to the 'live' site

ASSUMPTIONS





Composer commands: Replace command composer with PATH/TO/composer

ASSUMPTIONS

See getcomposer.org/download





Your process may be different if:

tools for updating Drupal core

ASSUMPTIONS

- Your hosting provider has proprietary
- But it still helps to understand various processes and their pros and cons *amberhimesmatz*





You may have used Composer to install a new module with a dependency but you didn't install Drupal with Composer and you're wondering why this is so hard. *amberhimesmatz*





THERE ARE 3 PARTS TO A DRUPAL SITE



Code

Database



3 PARIS OF DRUPAL







Core and vendor directories

Scaffolding files (individual files one level above core directory or in sites)

Example files







DRUPAL CODE

Possibly customized

Custom! Do not overwrite. Possibly customized

Custom! Do not overwrite.

Custom! Do not overwrite. Core Dependencies (Composer)



SIM U him U 0



The database used to store a Drupal site's content, configuration, state, and logging information.





public and private files directories Uploaded files, config, image derivatives, various caches, translations, etc. Not under version control, but needs to be backed-up







Your project may have other special files and directories

Build scripts, backups, etc.







Code

Database



3 AREAS TO BACKUP





▶ Code

Should be version controlled. If it's not, do it! Check the site's <u>gitignore</u> to see what's not backed up by version control



Backup custom .htaccess, robots.txt, etc.







Database backup with Drush > drush sql-dump > ../backups/ YYYY-MM-DD-filename.sql

DRUSH SQL-DUMP





Database backup with Drush See options for sql-dump at drushcommands.com

DRUSH SQL-DUMP





DRUSH SQL-DUMP

Configure sql-dump with drush.yml

See <u>https://github.com/drush-</u> ops/drush/blob/master/examples/

example.drush.yml





Database backup with mysqldump

>mysqldump -u [username] -p [dbname] gzip -9 > ../ backups/YYY-MM-DDfilename.sql.gz

MYSOLDUMP






Database **PHPMyAdmin** Select database > Export

PHPMYADMIN





TOOLS FROM HOST

See hosting provider's dashboard for database backup buttons or tools

See also https://www.lullabot.com/

articles/importexport-large-mysql-

databases





Files (public and private files) sites directory <== do not overwrite!</p>

- Settings.php!
- Sites/*/files







Files

Drupal-friendly hosts will have dashboard tools for backing up "Files"









btar

With gzip compression

btar -czvf ../backups/YYY-MM-DD-files.tar.gz sites/







btar

With bzip2 compression

lar -c vf ../backups/YYYY-MM-**DD-sitename.tar.bz2 sites/**





BACKUP AND MIGRAIJE

Recommended module:

Backup and Migrate

https://www.drupal.org/project/ backup_migrate





STANDARD UPDATE PROCEDURE

Step 1. Log in as user with 'Administer software updates' permission.





Step 2: Put your site in maintenance mode.

Administration > Configuration > **Development > Maintenance mode**

admin/config/development/maintenance





Maintenance mode \therefore

Home » Administration » Configuration » Development

Use maintenance mode when making major updates, particularly if the updates could disrupt visitors or the update process. Examples include upgrading, fring a theme, modifying content types, and making backups.

Put site into maintenance mode

itors will only see the maintenance

users can log in directly via the user login page.

Message to display when in maintenance mode

@site is currently under maintenance. We should be back shortly. Thank you for your patience.

Save configuration

Enable this checkbox!

message. Only users with the "Access site in maintenance mode" permission will be able to access the site. Authorized









DO YOURSELF A FAVOR AND KEEP THE MAINITENANCE MODE PAGE OPEN IN A TAB

51223 DETERMINE IF YOUR SITE WAS INSTALLED リイゴイ くのり ションション

MANAGED 11/ COMPOSERS



composer info drupal/core Success? Your project is managed with Composer. Failure? It's not.





Look at composer.json in root directory. Is drupal/core listed under 'require'?

YES. Managed w/ Composer NO. Not. (Even if listed under 'replace'.)

MANAGED W/ COMPOSER?



IF PROJECT IS NOT MANAGED WITH COMPOSER

Step 4: Remove old code Should be done on local development or staging site and deployed to live site as usual.





Step 4: Remove old code Remove core and vendor directories

- >rm -rf core vendor
- >rm -f *.* . *



Step 5a: Download the update from drupal.org/project/drupal

projects/drupal-x.y.z.tar.gz

wget https://www.drupal.org/files/



Step 5b. Extract the archive file. tar -zxvf drupal-x.y.z.tar.gz





YOUR MODULES, THEMES, PROFILES, OR SITES DIRECTORIES.

Step 6. Apply new code. Copy all files and directories except modules, themes, profiles, and sites from the update to your site.







DRUPAL CODE

Possibly customized

Custom! Do not overwrite. Possibly customized

Custom! Do not overwrite.

Custom! Do not overwrite. Core Dependencies (Composer)



SIM U him U 0

IF SITE <u>is</u> managed with composer

MANAGED W/ COMPOSER

Run

composer update drupal/core --with-dependencies

replaces steps 4-6!







Step 7. Check release notes for changes to default.settings.php

STANDARD UPDATE





If default.settings.php was changed:

1. Locate default.settings.php

2. Duplicate your settings.php with new name

3. Copy new default.settings.php to settings.php

4. Re-apply customizations from previous one *amberhimesmatz*



Step 8. Reapply customizations to .htacess and robots.txt

Because you backed up your original ones already, right?)





Step 9. Upload new code (including vendor directory) to "live" environment using your regular deployment method.





Step 10a: Open 'live' settings.php in text editor.

By default, access to update.php is blocked. In settings.php, find update_free_access and set to TRUE *amberhimesmatz*





Step 10b: Run database update(s)

in a browser

Follow instructions

Access example.com/update.php



Site-Install

Verify requirements

Overview

Review updates

Run updates

Review log

The version of Drupal you are updating from has been automatically detected.





Drupal database update

1 PENDING UPDATE

Apply pending updates



Site-Install

Verify requirements Overview Review updates Run updates

Review log

Updates were attempted. If you see no failures below, you may proceed happily back to your site. Otherwise, you may need to update your database manually. All errors have been logged.

Drupal database update

 Front page Administration pages



Step 10c: Edit 'live' settings.php again. Lock down update.php. Find update_free_access and set to FALSE



Step 11. Verify site is working as expected.

Go to admin/reports/status

Step 12: Turn off maintenance mode Go to admin/config/development/ maintenance Disable checkbox





TA-DA! You've updated Your drupal site!

Take a walk!



TIPS FOR USING DRUSH TO UPDATE



NOTE:

For updating sites <= 8.4 use Drush 8</p> Drush 9 (> D8.4) assumes Composerbased methods to update core and contrib





Backup codebase, database, and files drush archive-dump https://drushcommands.com/drush-8x/ core/archive-dump/









To put your site in maintenance mode:

drush sset system.maintenance_mode 1

drush cache-rebuild





11172 DRUPAL CORE AND 115 DEPENDENCIES (VENDOR) BOTH NEED UPDATING

No. drush up Badl Don't do it!

1001055 OR drush pm-updated





To update the database drush updatedb







To take site off maintenance mode drush sset system.maintenance_mode 0 drush cache-rebuild





TIPS: UPDATING A SITE INSTALLED 11/ DRUPAL COMPOSER

NOTE:

Do not attempt to use drush pm-update to update a site that was created with Composer.

DIDN'T JUST SAY THIS?







Drupal Composer Template https://github.com/drupal-<u>composer/drupal-project</u>

COMPOSER JEMPLAJE







Step 0: Put your site in maintenance mode.

cd web

drush sset system.maintenance_mode 1

drush cache-rebuild

cd . . /

COMPOSER TEMPLATE





Step 0: Check your composer.json for version constraints and update if needed.

"require": { ...



COMPOSER LEMPLALE









Step 1: Update core and its dependencies

composer update drupal/core

COMPOSER JEMPLAJE

webflo/drupal-core-require-dev symfony/* --with-dependencies *amberhimesmatz*







Step 2: Determine if any scaffolding files have changed

▶ git diff

COMPOSER LEMPLALE







Step 3: Restore any customizations to .htaccess or robots.txt

COMPOSER LEMPLATE







Consult the README of the project to verify instructions or troubleshoot. But, understand that Composer docs might be a better place for some

questions.

COMPOSER JEMPLAJE









Version constraints in 8.3.9 (not to 8.5.3).

COMPOSER TEMPLATE

composer.json only allow updates within a minor version. i.e. 8.3.7 ->







Gotcha!

Incompatible dependencies in your composer.json

COMPOSER TEMPLATE







- dependencies to your live site.
- Run composer install --no-dev before deploying to production.

COMPOSER TEMPLATE

Important! Do not deploy development

and commit changes to version control





Step 5. Update the database drush updatedb

COMPOSER JEMPLAJE







Step 6. Take site off maintenance mode drush sset system.maintenance_mode 0 drush cache-rebuild

COMPOSER JEMPLAJE







RELATED DRUPAL.ORG ISSUES

Proposal: Composer Support in **Core Initiative**

https://www.drupal.org/project/ ideas/issues/2958021









Improve instructions to core/ **UPDATE.txt**

https://www.drupal.org/project/ drupal/issues/2867757





USING COMPOSER TO MANAGE YOUR DRUPAL SITE

COMPOSERIZE DRUPAL

Comperize Drupal Composer plugin

Convert a non-Composer-managed Drupal project to a Composer-managed one!

https://github.com/grasmash/ composerize-drupal





Drupal Console's composerize command https://hechoendrupal.gitbooks.io/ drupal-console/content/en/commands/ composerize.html

DRUPAL CONSOLZ





Composerize Module

"Not ready for prime time."

https://www.drupal.org/project/ composerize

COMPOSERIZE MODULE





Free tutorial on Drupalize.Me

Use Composer with Your Drupal **Project by Matthew Grasmick**

https://drupalize.me/tutorial/usecomposer-your-drupal-project

DIJ COMPOSERIZE





KEEPING TRACK OF UPDATES

KEPING TRACK OF UPDATES

On your site: Reports > Available updates > Settings Enter email addresses to be notified daily or weekly



KEPING TRACK OF UPDATES

Subscribe to security announcements mailing list Log in to drupal.org

On your account page: Edit > My newsletters tab







On Twitter: Follow @drupalsecurity

KEPING TRACK OF UPDATES





KEPING TRACK OF UPDATES

Subscribe to RSS Feeds:

core security updates

https://www.drupal.org/security/rss.xml

contributed project updates

https://www.drupal.org/security/contrib/rss.xml

public service announcements https://www.drupal.org/security/psa/rss.xml






On Drupal Slack: https://www.drupal.org/slack

Join #announcements channel

KEPING TRACK OF UPDATES





MORE RESOURCES

SECURITY AND MAINTENANCE

Drupal 8 User Guide Chapter 13: Security and Maintenance https://drupalize.me/series/userguide/security-chapter







Update Drupal's Minor Version https://drupalize.me/tutorial/ update-drupals-minor-version







Introduction to Composer for Drupal Users

Drupalize.Me tutorial series

https://drupalize.me/series/ introduction-composer-drupal-users *amberhimesmatz*







Official Composer Site https://getcomposer.org





HAPPY UPDATING!