



Anyone Can Help Upgrade Drupal Projects to Be Drupal 9 Compatible!

Drupal Camp Asheville 2020

June 11, 2020

Today's Agenda

1. About Drupal 9
2. Audit Tools for Deprecated Code
3. Let's Upgrade a Module!
4. Resources
5. Q&A






Mark Shropshire

Senior Director of Development

 /in/markshropshire

 @shrop

As the Senior Director of Development, Mark “shrop” loves working at the intersection of leadership and technology. Over his 20-plus-year career as a technical team leader, Shrop held IT roles at a large urban research university and a nationally recognized graphic communications company prior to Mediacurrent. He has a passion for personal and team growth, aligning individual purpose with Mediacurrent's vision. Shrop focuses on empowering teams to excel while using best of class open source technology solutions.


In addition, Shrop is an organizer and frequent public speaker at meetups and conferences, talking about leadership, technology, productivity, and mentorship.

Open Source Expansion Partner



Who We Are

We are Drupal pioneers, digital strategy experts,
open source advocates, researchers, designers,
and innovators who solve technology challenges.



Our Mission

To bring together the most talented team members to provide world-class solutions for the web.



**Thanks to the Drupal
Community!**



About Drupal 9

Overview

- [Released June 3rd, 2020!](#)
- [Drupal 9.0.0 release details](#)
 - Release notes, requirements, upgrade info, and dependency changes
- First major release of Drupal to be super easy to upgrade
- To upgrade, manage Drupal 9 deprecated code
- [How to prepare for Drupal 9](#) (blog post)



Drupal Support and End-of-Life

	Drupal 7	Drupal 8	Drupal 9
EOL (End-of-Life)	<ul style="list-style-type: none">November 28, 2022	<ul style="list-style-type: none">November 2, 2021Drupal 9+ EOL (End of Life) bound by Symfony EOL and EOL of some other dependencies	<ul style="list-style-type: none">Exact data undecided, but inline with the Symfony 4.4 EOL November 2023
Notes	<ul style="list-style-type: none">Recently extended EOLLatest details in this PSAMore details: doc	<ul style="list-style-type: none">Drupal 8.9 minor release was released alongside Drupal 9 and will be supported until November 2021More details: doc	<ul style="list-style-type: none">Drupal 10 will be released before Drupal 9 EOL, but that date has not been determinedMore details: doc.

Audit Tools for Deprecated Code



Drupal Check

```
DCAVL-talk:1[tmux] - "mshropshire@FA0096: ~/docker/DCAVL/drupal8"
mshropshire@FA0096: ~/docker/DCAVL/drupal8 | 17/1932
= drupal-check modules/contrib/upgrade_status
⚠ You're using a deprecated config option bootstrap. ⚠

This option has been replaced with bootstrapFiles which accepts a list of files
to execute before the analysis.

22/22 ██████████ 100%

-----
Line   src/Commands/UpgradeStatusCommands.php
-----
Class Drush\Commands\DrushCommands not found.
  ↳ Learn more at https://phpstan.org/user-guide/discovering-symbols
16     Class Drush\Commands\DrushCommands not found.
  ↳ Learn more at https://phpstan.org/user-guide/discovering-symbols
-----

Line   tests/modules/upgrade_status_test_contrib_error/src/Controller/UpgradeStatusTestContribErrorController.php
-----
13     Call to deprecated function drupal_set_message():
      in drupal:8.5.0 and is removed from drupal:9.0.0.
      Use \Drupal\Core\Messenger\MessengerInterface::addMessage() instead.
-----

Line   tests/modules/upgrade_status_test_error/fatal.php
-----
3      Syntax error, unexpected T_STRING on line 3
-----

Line   tests/modules/upgrade_status_test_error/src/Controller/UpgradeStatusTestErrorController.php
-----
10     Call to deprecated function menu_cache_clear_all():
      in drupal:8.6.0 and is removed from drupal:9.0.0. Use
-----
DCAVL-talk FA0096.local 1 [tmux] 2 zsh Thu 2020-07-09 < 11:20 PM
```

Upgrade Status module

Upgrade status ☆

[Home](#) » [Administration](#) » [Reports](#)

Analyze your site's Drupal 9 readiness. Run the report to find out if there are detectable compatibility errors with the modules and themes installed on your site. [Read more about preparing your site for Drupal 9.](#) Install [Composer Deploy](#) or [Git Deploy](#) as appropriate for more accurate custom vs. contributed categorization and better available update recommendations.

Available update data last checked: 22 minutes 35 seconds ago. ([Check manually](#))

▼ DRUPAL CORE AND HOSTING ENVIRONMENT

Upgrades to Drupal 9 are supported from Drupal 8.8.x and Drupal 8.9.x. It is suggested to update to the latest Drupal 8 version available. [Several hosting platform requirements have been raised for Drupal 9.](#)

REQUIREMENT	STATUS
Drupal core should be 8.8.x or 8.9.x	⚠ Version 8.9.3--dev allows to upgrade but 9.0.2 is available.
PHP version should be at least 7.3.0	✓ Version 7.3.19-1+0-20200612.60+debian10-1.gbp6c8fe1
When using MariaDB, minimum version is 10.3.7 Alternatively, install the MariaDB 10.1 driver for Drupal 9 for now.	⚠ MariaDB 10.2.32-MariaDB-1:10.2.32+maria~bionic~log
When using Apache, minimum version is 2.4.7	Version cannot be detected or not using Apache, check manually.
When using Drush, minimum version is 10	Version cannot be detected, check manually.

▼ CUSTOM PROJECTS

Custom code is specific to your site, and must be upgraded manually. [Read more about how developers can upgrade their code to Drupal 9.](#)

No custom projects found.

▼ CONTRIBUTED PROJECTS

Contributed code is specific to the Drupal ecosystem. Read more about how to upgrade contributed code to Drupal 9.

Drupal Rector

```
DCAVL-talk:1[tmux] - "mshropshire@FA0096: ~/docker/DCAVL/drupal8"
mshropshire@FA0096:~/docker/DCAVL/drupal8$ 1
=> vendor/bin/rector process modules/contrib/maintenance_mode_redirect --dry-run
Rector v0.7.29
Config file: rector.yml

6/6 [████████████████████] 100%

1 file with changes

1) modules/contrib/maintenance_mode_redirect/maintenance_mode_redirect.module

----- begin diff -----
--- Original
+++ New
@@ -1,5 +1,6 @@
<?php

+use Drupal\Core\Url;
/**
 * @file
 * Module file for maintenance_mode_redirect.
@@ -17,7 +18,7 @@
switch ($route_name) {
case 'help.page.maintenance_mode_redirect':
    $output = '<p>' . t('Redirect site visitors to another URL when Maintenance Mode is enabled.') . '</p>';
-    $output .= '<p>' . t('The module adds two additional fields to the Maintenance Mode <a href="#">maintenance</a> configuration page</a> (admin/config/development/maintenance).', array('maintenance' => \Drupal::url('system.site.maintenance_mode')) . '</p>';
+    $output .= '<p>' . t('The module adds two additional fields to the Maintenance Mode <a href="#">maintenance</a> configuration page</a> (admin/config/development/maintenance).', array('maintenance' => \Drupal::url('system.site.maintenance_mode'))->toString()) . '</p>';
-    $output .= '<p>' . t('The checkbox is used to enable URL redirect when the site is in Maintenance Mode.') . '</p>';
+    $output .= '<p>' . t('The Redirect URL field should contain a URL to go to when the URL redirect is enabled.') . '</p>';
}

```


Drupal 9 Deprecation Status

Drupal 9 Deprecation Status

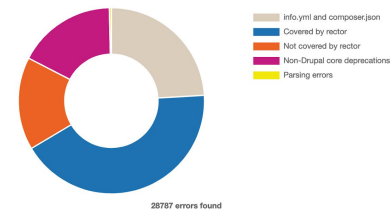
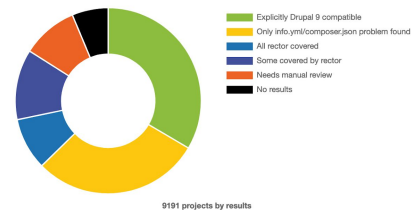
Intended for Drupal module users and contributors, this tool allows you to review Drupal 9 compatibility in all drupal.org projects. Our data source is [Drupal.org analysing all contributed projects](#). Use [Upgrade Status locally](#) to verify up to date results. Some deprecated API use may not be found (deprecated JavaScript APIs, and deprecated Twig markup). Manual testing and running project tests on Drupal 9 is best. [Run drupal-rector to fix many issues automatically](#). Project name and error string search supports wildcard lookup, eg. `*migrate*`, `locale*` to find all projects that have migrate in them or start with locale. For matching specific projects use a space too: `diff *`.

[CONTRIBUTE](#)

Dataset date is: 2020-07-03T23:15

▼ Filter projects

Names:	Result:	Error:	Type:	Group:	Drupal 9 plan:	Rector patch:
<input type="text"/>	- No filter -	- No filter -	- No filter -	- No filter -	- No filter -	- No filter -
<input type="button" value="SUBMIT"/>						



Let's Upgrade a Module!

1. Identify a D8 module
2. Review issue queue
3. Audit module
4. Reference Drupal APIs
5. Create/test patches
6. Commit changes
7. Release a D9 version!





Drupal 9 Resources

- [Updating Drupal 8 Modules to Drupal 9](#)
- [Deprecation checking and correction tools to prepare for Drupal 9](#)
- [Drupal 9 release date and what it means](#)
- [Transitioning from 8.x-* to semantic versioning](#)
- [core_version_requirement details](#)
- [How to Think About Drupal 9](#)
- [Gábor Hojtsy's Drupal 9 articles](#)



Getting Started Resources

- [Ways to Get Involved](#)
- [Drupal project issues](#)
- [Local Development Guide](#)
- [Simplytest.me](#)
- [Drupal API](#)
- [Drupal Slack](#)

Questions

Let's talk!

[@shrop](#)

[in/markshropshire](#)





Thank you!



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