





DrupalCon
SEATTLE 2019
APRIL 8-12

Configuration Management Initiative 2.0 updates



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Nuvole

Distributed team in Italy, Belgium and Czech Republic

International Organisations & Institutions

Fast delivery: Several developers working simultaneously on the same project, automated tests, frequent configuration changes

⇒ Need safe workflow

pioneers with configuration management



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We enable digital transformation at leading organizations such as:
Weight Watchers, NBA, MLS, Northwell Health, and Johnson & Johnson.

Our services include:

Digital Strategy, User Experience, Design, Technology Development

Drupal expertise:

Features, Config Actions modules, Open Atrium distribution

Session Outline

- Introduction
- Brief History
- CMI 2.0 focus points
- Concepts
- New API proposal
- Next steps
- You and CMI 2.0

CMI 1.0

New in Drupal 8.0

Declarative configuration

Workflow for most common need:

Only for staging and deploying of configuration of the same site, as is, without modification.

Let contrib figure out how to solve other challenges.

Contrib modules (CMI 1.1/2)

Config Update (29'600)

Config Filter (20'786)

Config Split (14'838)

Config Ignore (11'863)

Config Read-only (4'328)

Features* (21'059)

CMI 2.0

- Documentation
 - Users: How to use the tools
 - Developers: How to extend and use the API
- Environment specific configuration (D8.8)
 - Extending currently supported workflow
- Cross site configuration workflows (D9)
 - Distributions / Drupal as a product

CMI 2.0 organisation

Alex Pott (alexpott)

Fabian Bircher (bircher)

Mike Potter (mpotter)

Mladen Todorovic (mtodor)

bi-weekly meeting at 17:00 CET (~11:00 EST) on Slack **#config**

<https://www.drupal.org/project/cmi2>

Drupal 8.6

Installing a site given a set of configuration!

- Define config/sync in settings.php, option to install via config
- A config/sync folder within a custom profile
- `drush site:install --existing-config` (drush 9.4+)

Still outstanding: Profiles with hook_install

Small steps with incremental improvements to keep complexity at bay.

Help out: [#2982052](#)

Drupal 8.7

New Config Memory Storage

A Config Storage Copy utility trait for copying between config storage

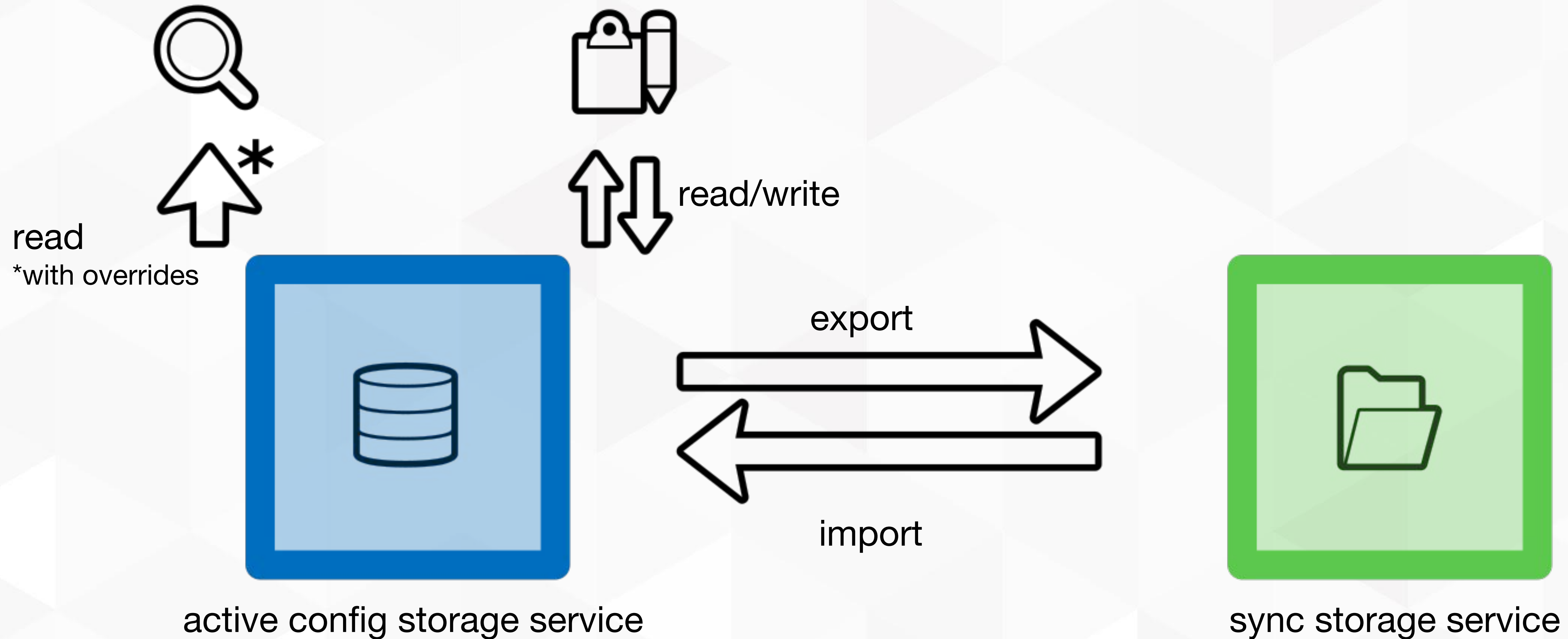
Drupal 8.8

A Config Export Storage for standardizing how config is exported (done!)

Config Storage Transform API

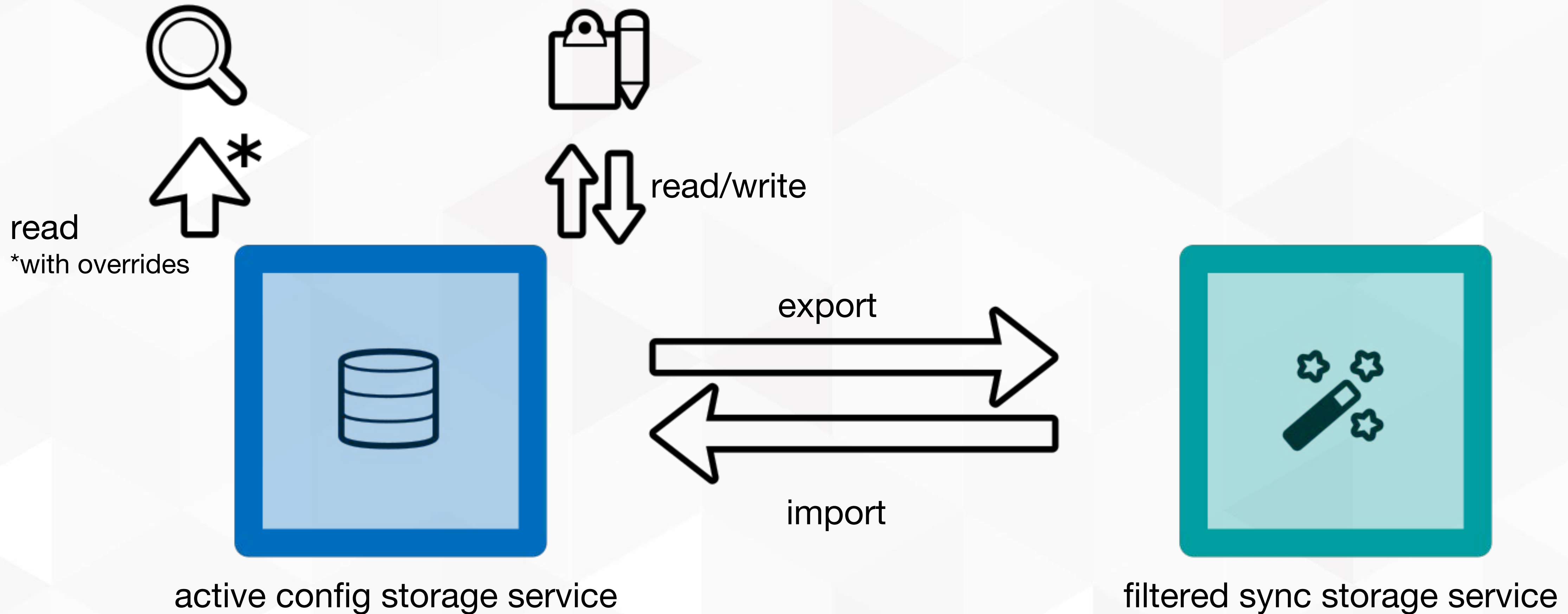
Config Environment module (experimental)

Schema - basic workflow



Contrib API - Config Filter ("CMI 1.5")

Allows most advanced use cases



Config Filter in core?

Current API*: Config Filter

+ Many contrib modules enhance workflow

See slides from [DrupalCon Vienna session](#) for details.

- Plugins with many methods.
- Requires knowledge on how storage is used for import/export.

Config Storage Transformer [#2980712](#)

New core API (8.8-dev)

Accomplish what Config Filter did, but better

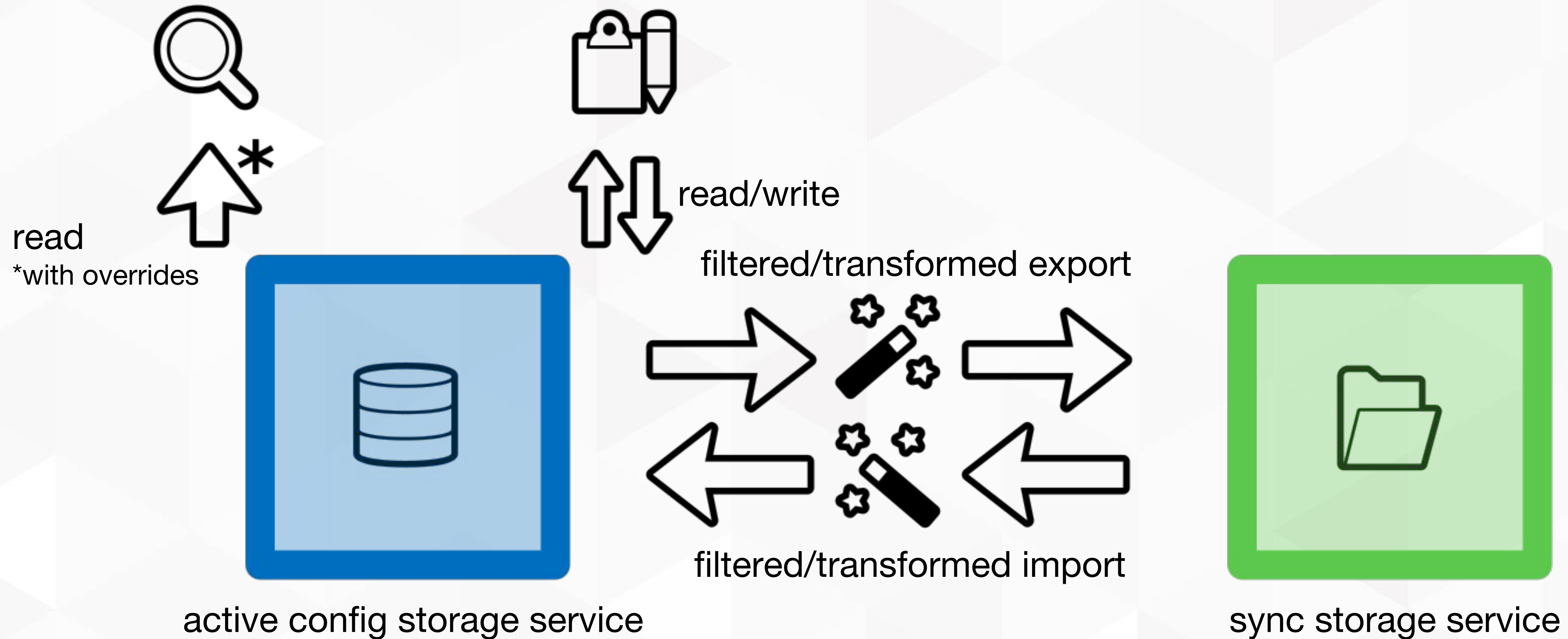
Event based

Transform storage used for importing/exporting.

Useful everytime a config store is used.

Config Transformer

New API interacting with workflow



Config Split ("CMI 1.5")

De-facto standard for environment specific modules

- Directory to which configuration is split off
- List of modules and config to split off
- Active/inactive based on config override in settings.php

Split and Merge happen during import and export,
active config is not changed

Simple idea, lots of different possible applications

Some limitations due to the api.

Config Environment

[#3028179](#)

Experimental core module for 8.8-dev

Uses Config Storage Transformer API

Allows "environments" to be defined (default, dev, stage, prod...)

Specify list of modules enable and configuration changes.

Switch between environments via UI and/or command line.

Only a single environment can be active.

Changing Environments

Isn't just a simple javascript flag

Switching environments can cause modules to be installed/uninstalled

Deploy from one environment to another (dev -> stage -> prod)
Set desired environment in settings.php? (based on env vars)
or, add an additional command to a deploy script (drush, etc)

Copy DB from Prod to Dev: Prod is active environment in DB
switch to Dev via command line or UI



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How deep is the rabbit hole?

What about people who use the zip archive?

What about using a database dump from production?

What about translations?

What about updates?

What about config changes on production?



Summary - call to action

What did we learn in the past year with CMI 2?

Use config split today (ideally with one active split per environment)

Help with documentation!

New core apis are coming... but need time and lots of effort.

CMI 2.0 Sprint this Friday!!



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Join us for contribution opportunities

Friday, April 12, 2019

Mentored Contribution

9:00-18:00
Room: 602

First Time Contributor Workshop

9:00-12:00
Room: 606

General Contribution

9:00-18:00
Room: 6A

#DrupalContributions



What did you think?

Locate this session at the DrupalCon Seattle website:

<http://seattle2019.drupal.org/schedule>

Take the Survey!

<https://www.surveymonkey.com/r/DrupalConSeattle>

Thank you!