



# A LIGHT-WEIGHT DEVOPS APPROACH TO ISLANDORA

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# Technical Drivers

- Self-contained directory
- Easily replicate developer, staging and production environments
- Track and contribute to upstream development
- Put configuration under version control
- Support multi-site setup

# One-directory Setup

- Extensive use of Git Submodules for Drupal, Islandora, etc.
- Relative symbolic links within the directory
- Configuration files generated by scripts

# Inside the Box (Source)

- Fedora Commons
- Drupal
- Islandora
- GSearch configuration
- Site-specific configuration, modules, themes

# Inside the Box (Binaries)

- Tomcat
- Adore Djatoka
- SOLR
- FITS

# Outside the Box

- Apache HTTPD
- MySQL RDBMS
- Java JVM
- ImageMagic
- Poppler Utils
- Ghostscript
- Tesseract

# Git Submodules

- Adds a git repository inside another
- Top-level repository tracks the commit ID of the submodule

# Drupal Features

- Stores module dependancies, variables, permission roles, etc.
- Updated by script-driven value substitutions



# Demonstrations

- Adding a new Islandora module
- Pushing configurations to staging
- Keeping up-to-date (monitoring upstream)
- Creating a new site

# To-Dos

- <http://github.com/lyrasis/reposervice>
- Continue to refactor out LYRASIS-specific names, variables, etc.
- Refactor bin/reposervice-config out of bash
- Code a helper script for adding a submodule
- If there is interest, generalize and fork to <http://github.com/Islandora>