A LIGHT-WEIGHT DEVOPS APPROACH TO ISLANDORA

Twitter: @DataG
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 dependencies, 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