# Library publishing technology services at scale

## or, what goes into running a multi-institutional software hosting service.

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#### **Publishing services at Scholars Portal**

• Public Knowledge Project (**PKP**)

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- Open Journal Systems (**OJS**)
- Open Monograph Press (OMP)

#### **Publishing services at Scholars Portal**

- 11 universities in Ontario, 125+ journals
- 2 librarians & systems admin
- Includes technical support, sponsored CrossRef memberships, analytics, theming & customizations

#### Service scaling

- 1 -> 11 libraries
- Balancing sustainability, service & workload

## **Client support**

#### **Client support**

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- Workload management
- Time tracking
- Defining roles & responsibilities
- External communities

## Code management

#### **Code updates**

- 1 repository per instance
- Deciding when to upgrade
  - Security issues?
  - $\circ~$  What are the new features?
  - Minor or major release?
  - Known bugs?

#### **Code customizations**

- Institutions request individual customizations
- Every code customization has a cost associated with it when you upgrade
- Consider:
  - Could this be useful to the larger project community?
  - How large of a change is this?
  - Where does the code for this live?

## **Environments and deployment**

#### Environments

- Local & development environments
- Environment configuration
- Multi-server -> shared server

#### Upgrading OJS 3 instances on OJS server

Once the code is updated in GitLab and you've verified the submodule commits:

1. Set permissions of the ojs directory to the ojs user:

sudo chown -R ojs:users the-ojs-directory/

- sudo su ojs to login as the OJS user which has access to pull from GitLab
- 3. cd to the OJS directory
- 4. If existing branch:

git pull

If new branch:

git fetch git checkout -b stable-3\_1\_X origin/stable 5. Reset the submodule directories so we don't have issues updating them:

git submodule foreach git reset --hard

6. Update the submodules:

git submodule update --init --recursive
git submodule <- check to see everything</pre>

7. Run composer updates:

composer --working-dir=lib/pkp update composer --working-dir=plugins/paymethod composer --working-dir=plugins/generic/c

8. Get NPM dependencies (run in the main OJS directory):

npm install npm run build

#### Jenkins

- automation server for deploying and automating tasks
- self-hosted
- https://jenkins.io



#### **Project OJSDEV- Create OJS Dev Instance**

This build requires parameters:

INSTANCE_NAME	E toronto ᅌ
	Choose Instance to Clone from Prod and Deploy to Test
BRANCH_TAG	refs/heads/stable-3_1_2
	To build a particular Branch use : refs/heads/{branchName} Eg. refs/heads/master
	To build from a Particular Tag use : refs/tags/{tagName} Eg. refs/tags/git-2.3.0
	To build from a Particular Commit use : {commitId} Eg. 5062ac84
	□ GET_LATEST_DB
	Get Latest Database from Production and Restore to DEV
	Note: It will take upto 40minutes to Run this step depending on DB Size!
	□ RUN_UPGRADE
	Check this if you want to Bun Upgrade step

## **Community contribution**

#### **Community contribution**

- PKP Forums
- Code and documentation
- Working groups & communities
- Financial support
- Supporting broader initiatives, e.g.

https://investinopen.org/



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