# **Release Protocol**

This page should be a comprehensive guide to releasing a geodashboard project.

# Step-by-step guide to complete release for mixed v2 and v3 system

- 1. Development Branches and Servers
  - a. Geodashboard v2
    - i. Core
- 1. Geodashboard V2 is used for multiple projects
  - a. release will be decided by larger group contacts are Luigi Marini, Indira Gutierrez Polo
  - b. v2 should be on the most recent version of development branch on project's development server
  - c. For creating a geodashboard (core) release. One of the committers needs to create a release branch. The release number should follow semantic versioning <u>http://semver.org/</u>. In the release branch there need to be the following 3 changes:
    - i. Update version number in project/Build.scala
    - ii. Update version number in package.json
    - iii. In Changelog md update version number and add release date
  - d. After the release branch is merged, a tag needs to be created in the master branch. Instructions for creating a tag are here: https://git-scm.com/book/en/v2/Git-Basics-Tagging
  - After creating the tag, create new branch, it's name could be custom 'master-to-develop-release-2.x.x' and merge that branch to develop.
- 2. Project specific configuration
  - a. Create a project specific (gltg/ilnlrs/imlczo/seagrant) release branch. Follow semantic versioning to determine the number for the release: http://semver.org/. In the release branch there need to be 2 changes:
    - i. Update version number in package.json
    - ii. In changelog.md update version number and add release date
    - b. After the release branch is merged, a tag needs to be created in the master branch. Instructions for creating a tag are here: https://git-scm.com/book/en/v2/Git-Basics-Tagging The tag name for version 1.9.0 should be 'v1.9.0', add the letter v to indicate version before the release number for the tag.
    - c. After creating the tag, create new branch, it's name could be custom 'master-to-develop-release-2.x.x' and merge that branch to develop.
- ii. Build
  - 1. If set up with Puppet, the development server should update automatically to the most recent build
    - a. If you need to update manually, ssh to the geodashboard developement server
      - b. sudo /home/geodashboard/update-geodashboard.sh --force

### b. Geodashboard v3

- i. Software
  - 1. Each project should have a specific branch of v3 named by project name, which the master branch merged into the configuration
  - a. The master branch should be merged into the project branch which maintains it's specific configuration ii. Build (local by user)

```
1 git clone ssh://git@opensource.ncsa.illinois.edu:7999/geod/geodashboard-v3.git
  cd geodashboard-v3
  checkout <project specific branch name>
  yarn install
  yarn run build
```

2. Copy the contents of the build directory of the system's proxy server

#### a. check the nginx root directory

b. more /etc/nginx/sites-enabled/<site> | grep root

- i. this returns the path to the nginx root directory
- c. cd to nginx root directory
- d. there should be a directory call 'gd3' (maybe named something else)
- e. backup the directory
- f. cp -r gd3 gd3\_backup
- g. copy the new build files into the gd3 directory (delete the previous of just overwrite)

c. Clowder

- i. clowder on dev uses the clowder development branch
- ii. should update automatically
- iii. to update manually

1. sudo /home/clowder/update-clowder.sh --force

#### d. TEST THE SITE !!!

- Development Data
  - a. Make sure all data is up to date and correct

```
b. backup the database
i. On the database server:
```

sudo -u postgres pg\_dump <geostream db name > geostream-backup.sql

ii. If not sure of the geostream database name, on the clowder server:

more /home/clowder/clowder/custom.conf | grep postgres.db

c. Make sure the cache is updated. If not sure run (this will take a while depending upon how much data there is):

<host>/clowder/api/geostreams/cache

- 3. Production Branches and Servers (after thoroughly testing dev)
  - a. Geodashboard
    - i. Core make sure the core master branch is ready
    - ii. project config
      - 1. Merge develop into master
    - iii. All software on production branches need to be updated manually on geodashboard server

sudo /home/geodashboard/update-geodashboard.sh --force

b. Clowder

i. On clowder server

sudo /home/clowder/update-clowder.sh --force

#### 4. Production - Data

- a. If there is new data on dev and you decide to move the dev database to prod database and move the dev cache to the prod cache:
  - i. turn on maintenance page
  - ii. ssh into postgres machine
  - iii. backup development and production databases

- iv. Copy dev database to production temp database
  - 1. stop clowder on dev
  - 2. copy

```
sudo -u postgres psql -c "create database geostream_prod_temp with template geostream_dev"
```

v. delete the production database

1. Stop clowder on production machine and:

sudo -u postgres dropdb geostream

vi. Rename production database

1. Stop clowder on dev machine

```
2. sudo -u postgres psql -c "ALTER DATABASE geostream_prod_temp RENAME TO geostream;"
```

- vii. Restart both clowder instances
- viii. Copy cache from dev machine to prod machine
  - 1. on production machine delete cache a. option 1, use clowder endpoint
    - - b. option 2, on clowder machine delete cache files

sudo rm /home/clowder/cache/\*

2. use ssh to copy cache from dev to production (rsync would be better) (using key would be better) . On production machine:

sudo scp <your\_ubuntu\_username\_on\_dev>@<dev\_hostname>:/home/clowder/cache/\* .

### ix. turn off maintenance page



## **Related articles**

- Release Protocol V3
- Deploy Geodashboard-V3
- Geostreams-api-v3 Local
- Troubleshooting
- Release Protocol