

# PHYDO demo server

## PHYDO Demo Server at IUB

TEMP SECONDARY DEMO SERVER

Currently there is a demo server running version displayed at OR 2016.

Web server: helium.dlib.indiana.edu:8200 (temporarily displacing the tomcat service described below)

Solr: helium.dlib.indiana.edu:8985

Fedora: helium.dlib.indiana.edu:8986

### Access

Hostname: helium.dlib.indiana.edu

- SSH will only be allowed from IU networks, so a VPN connection will be required. See <https://kb.iu.edu/d/ajrq>

### Deployment

TODO Update user/group to phydo for production instance.

User/group: hydradam:hydradam

- Directories used for deployment should be owned by the hydradam user
- Any Rails applications or Tomcat instances should be run as the hydradam user
- The hydradam user is in the rvm group in case it needs to install anything Ruby related or own a gemset
- Sudo access should allow you to become hydradam from a shell if necessary

Location: /srv/hydradam

- Owned by user/group hydradam:hydradam
- Can be symlinked to satisfy any deployment requirements (i.e., symlinked from /opt)
- **For now this is just a directory in the root filesystem but Brian will get a real data disk to mount /srv to, so for now we have to be a little careful about cleaning up large testing objects.**

Ports:

- Port 8500 has been opened to firewalls for running the Rails application
- Port 8200 has been opened to firewalls for running/managing a Tomcat instance for Fedora and Solr when required

Fedora and Solr

- For now we can keep it simple by just starting Jetty on port 8983
- When we want a real production-like deployment using Tomcat we have port 8200 open for management and troubleshooting

### Terminal Commands

```
# Installing PHYDO services
ssh helium.dlib.indiana.edu
sudo su - phydo
cd /srv/phydo/releases
git clone https://github.com/IUBLibTech/phydo # If not already cloned
cd phydo
git checkout origin master
git pull origin master
rvm use ruby-2.3.1@phydo
gem install bundler # If new instance
bundle install
rake db:migrate

# Starting PHYDO servers individually
nohup solr_wrapper -p 8983 &
nohup fcrepo_wrapper -p 8984 --no-jms &
rails s -d -p 8500 -b 0.0.0.0
# or all together
HOST=0.0.0.0 PORT=8500 rake hydra:server
# Then Ctrl-Z, bg, disown to keep it running after disconnecting from ssh.
```

## Application Prerequisites

### Git:

- 1.8.3.1 installed from package
- git.x86\_64 1.8.3.1-4.el7

### Java:

- Defaulting to 1.8 in /bin/java
- 1.7 and 1.8 available from packages
- java-1.7.0-openjdk.x86\_64 1:1.7.0.85-2.6.1.2.el7\_1
- java-1.8.0-openjdk.x86\_64 1:1.8.0.51-1.b16.el7\_1

### RVM:

- Installed in /usr/local/rvm as multi-user
- ruby-2.2.1 is default
- Rubies managed by user rvm
- If not working on login, source /etc/profile.d/rvm.sh to activate
- If mixed mode is desired do: 'rvm user gemsets', which will force gemsets to be managed in user's \$HOME

### FITS:

- Installed in /usr/local/fits
- fits.sh and fits symlinked from /usr/local/bin

### ImageMagick

- Installed from package
- ImageMagick.x86\_64 6.7.8.9-10.el7

### Redis

- Installed from package
- redis.x86\_64 2.8.19-2.el7
- (service redis start/stop/status)

### Nodejs

- Installed in /usr/local/nodejs
- node binary symlinked from /usr/local/bin