Phoenix Documentation

Release 0.11

Birdhouse

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Phoenix (the bird) Phoenix is a long-lived bird that is cyclically regenerated or reborn. (Wikipedia). [..]

Pyramid Phoenix is a web-application build with the Python web-framework Pyramid. Phoenix has a user interface to interact with Web Processing Services. The user interface gives you the possibility to *register Web Processing Services*. For these registered WPS services you can see which *Processes* are available. You are provided with a form page to enter the parameters to *execute a process (job)*. You can *monitor the jobs* and see the results.

Phoenix is installed using the Conda Python distribution and Buildout.

CHAPTER 1

Installation

Start with downloading Phoenix with sources from github:

```
$ git clone https://github.com/bird-house/pyramid-phoenix.git
```

```
$ cd pyramid-phoenix
```

Create the conda environment and activate it:

```
$ conda env create -f environment.yml
$ conda activate pyramid-phoenix
```

Edit the configuration custom.cfg (see custom.cfg.example). For example change the admin password:

```
$ vim custom.cfg
# phoenix admin password
phoenix-password = qwerty
```

When you're finished, run make install to install Phoenix into the conda environment. The installation is using buildout:

\$ (pyramid-phoenix) make install

By default phoenix will be installed into the folder ~/birdhouse.

After successful installation you need to start the services:

```
$ (pyramid-phoenix) make start  # starts supervisor services
$ (pyramid-phoenix) make status  # shows status of supervisor services
```

Phoenix web application is available on *http://localhost*:8081.

Check the log file for errors:

```
$ tail -f ~/birdhouse/var/log/supervisor/phoenix.log
$ tail -f ~/birdhouse/var/log/supervisor/celery.log
```

CHAPTER 2

Configuration

You can configure Phoenix by editing custom.cfg in the Phoenix source folder:

```
$ cd pyramid-phoenix
$ vim custom.cfg
$ cat custom.cfg
```

```
[settings]
hostname = localhost
```

```
http-port = 8081
https-port = 8443
log-level = INFO
# phoenix admin password
phoenix-password = qwerty
```

By default Phoenix runs on localhost. The HTTP port 8081 is redirected to the HTTPS port 8443. If you want to use a different hostname/port then edit the default values in custom.cfg:

```
[settings]
hostname = localhost
http-port = 8081
https-port = 8443
```

To activate the GitHub login for external users you need to configure a GitHub application key for your Phoenix web application:

See the GitHub Settings on how to generate the application key for Phoenix.

After any change to your custom.cfg you need to run make install again and restart the supervisor service:

```
$ make install
$ make restart
```

CHAPTER $\mathbf{3}$

User Guide

The user guide explains how to use the Phoenix web application to interact with Web Processing Services.

```
• Login
```

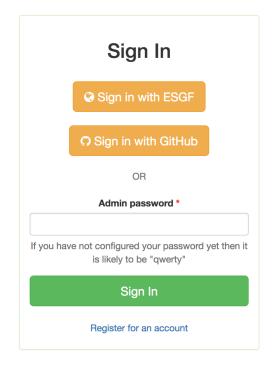
- Dashboard
- Processes
- Monitor
- My Account
- Settings (admins only)
 - Register a WPS service

3.1 Login

Press the Sign in button in the upper right corner.

Sign In

The login page offers you several options to login to Phoenix.

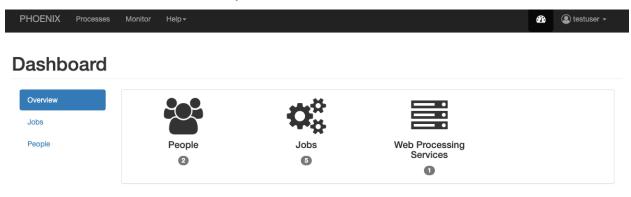


You can login using your GitHub account.

If you are Phoenix admin you can also enter the admin password here.

3.2 Dashboard

The dashboard shows some statistics about jobs and users.

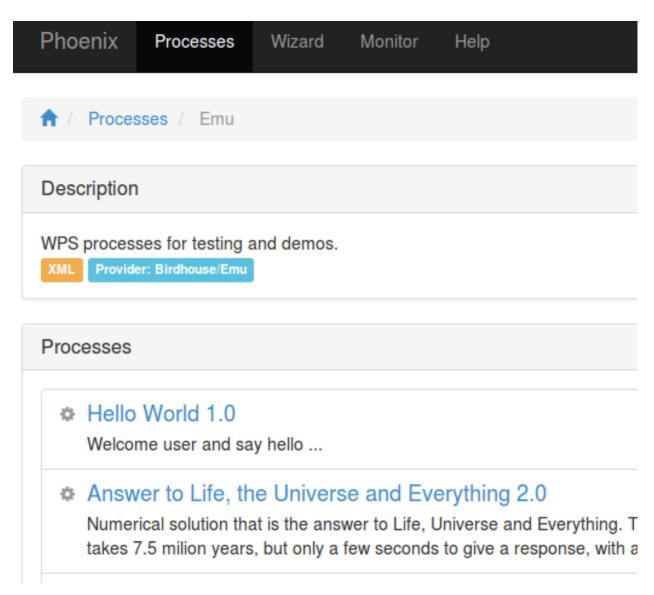


3.3 Processes

When you have registered WPS services you can run a process. Go to the Processes tab.

Phoenix	Processes	Wizard	Monitor	Help
↑ Proces	sses			
Web Proce	ssing Service	S		
🔹 Emu				
WPS p	processes for te	sting and d	emos.	

Choose one of your registered WPS services. You will get a list of available processes (WPS GetCapabilities request).



Choose one of these processes by using the ${\tt Execute}$ button.

In case of Emu you may try the Hello World process. You will then be prompted to enter your username:

Phoenix	Processes	Wizard	Monitor	Help
1 Proces	sses / Emu /	Hello Worl	d	
Descriptior	1			
Welcome us	er and say hello	o		
Inputs				
Your name	*			
Please enter	Vour pama			
Please enter Submit	your name			

Press the Submit button. When the process is submitted you will be shown your job list in Monitor.

3.4 Monitor

In Monitor all your running or finished jobs are listed. The list shows the status and progress of your jobs.

ly Jobs		All Process Status	▼ Dele	te Make	Public Make Private	Set Favorite	Unset Favorite	
Runn	ning 1 Finished 41	Matching	42 Sort -	C				
		_				.		
Sta	atus User	Process	Service	Caption	Finished	Duration	Labels	
Sta		Process cloud_taylor	Service copernicus	Caption ???	Finished ???	Duration 0:00:04	Labels dev single async edit labels	Details Restart

Job Monitor This page shows the status of all your jobs.

When a job has finished with success you can see the results by clicking the Details button.

1 Job Details This page shows the job details and polls the status of a running job.

 ♥ cchecker ♥ ??? ♥ dev single saync 	0 Ran for 0:00:02 節 3 minutes ago	ProcessSucceeded PyWPS Process IOOS Compliance Checker finished	1 Delete Job C Restart Job
by a Check Suite, which func	tions similar to a Python standard ch are then aggregated into a sum	ainst compliance standards. Each com Unit Test. A Check Suite runs one or m mary. Development and maintenance f	ore checks against a dataset,
Q Job Log Inputs Output	ts ⊲> View as XML		
1 0:00:02 0%: PyWPS Process 2 0:00:02 100%: PyWPS Process	cchecker accepted IOOS Compliance Checker finished		

If the result has a document (XML, text, NetCDF, \dots) you can view or download this document with the Download button.

3.5 My Account

In My Account you can change your user settings (user name, organisation, openid, ...).

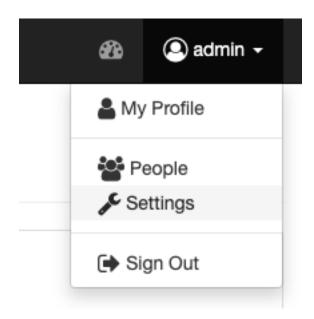
OENIX	Processes	Monitor	Help √					æ	(2) testuser 🗸
tuser									
rofile			Profile						
ersonal acce	ess token								
iroup Permis	ssion		Your Name testuser		 				
			EMail						
			Organisation						
			Notes						
					Lindata Pi	ofilo			
						Update Pr	Update Profile	Update Profile	Update Profile

You can also see your current access token which you can use to access a protected WPS service directly.

PHOENIX	Processes	Monitor	Help +	B	오 testuser 🗸
testuser					
Profile			Personal access token		Refresh Token
Personal acc	ess token				
Group Permi	ssion		Access Token eyJhbGciOiJSUzI1NiisinR5cCigOiAiSidUliwia2ikiiA6iCJHUGNOcW9SdW9wVkU0UE1md29CRHBzdU5iUVFaTip _s-T5fpv_dIJTPPINu_UOO066K01R-Wt6kmsp1juj-sHrwjsruu0pUBHRdj1y-Hs2HNHkZpZCetZRnniwzaBDgcWa fESLATNrU_lducce-2WvdZVGp86j7JyT-TuP5V0khKxUEcSaufzamboDBeaVPXSd7GNcCTAV- YdWf09CYNBKYkhztt8Nd3qzPKWnnu6LvEvuHlc_2fWqpNsTEiqkmi25Qff9pNkTZa5NCPdA7gviKP3W2Dkvq97	u9cjw\	/7J833RhZ3QrK-
			Expires at		
			2019-12-05 14:31:06 UTC		

3.6 Settings (admins only)

When you are logged-in as admin user you have the Settings page. Here you can make administrative changes and monitor services.



3.6.1 Register a WPS service

Open the Settings/Services page. Here you can see which services are registered in the catalog. All theses services are known and usable by Phoenix.



To add a new WPS service, press the Register a new Service button and enter the WPS URL in the field Service URL.

For example, to register Emu WPS:

http://localhost:5000/wps

HOENIX Processes Monitor Help+	æ	🕒 admin 🗸
/ Settings / Services / Register New Service		
Register New Service		
Service URL		
http://localhost:5000/wps		
Add URL of service (WPS). Example: http://localhost:5000/wps		
Service Title		
Emu		
An optional service title. The title is used as a display name for the service. If a title is not provided it will be taken for the service metadata.		
Public access?		
0		
Check this option if your service has no access restrictions.		
Register		

CHAPTER 4

Indices and tables

- genindex
- modindex
- search