

Geospatial Extractors

How to setup the geospatial stack for Clowder.

Requirements

- Docker
- Core Clowder setup (running in Docker or on host)

Clowder Running Inside Docker

- Download [docker-compose.geo.yml](#)
- *Setup geoserver*
 - Start geoserver with `docker-compose -f docker-compose.geo.yml up geoserver`
 - Open <http://localhost:8081/geoserver>
 - Change admin password
 - Stop geoserver
- Depending on your Docker setup, the default environmental variables should work. If not you can modify them in a `.env` file. In the case of Clowder is running on host [clowderhost.net](#), the `.env` file will looks something like this (fix passwords):
- Run `docker-compose -f docker-compose.geo.yml up`

Clowder Running Outside Docker

- Download [docker-compose.geo.yml](#)
- You will need to expose the Geoserver port to the host. **We recommend you keep this behind a firewall and only make it accessible to the host running the Clowder webapp.**
 - Add the following to the geoserver service entry in `docker-compose.geo.yml`:
 - ports:
 - 8081:8080
- *Setup geoserver*
 - Start geoserver with `docker-compose -f docker-compose.geo.yml up geoserver`
 - Open <http://localhost:8081/geoserver>
 - Change admin password
 - Stop geoserver
- Create `.env` file and set the appropriate env variables in it. For example if the Clowder core services are running on host [clowderhost.net](#), the `.env` file will looks something like this (fix passwords):

.env

```
RABBITMQ_URI=amqp://guest:guest@clowderhost.net:5672/%2F
REGISTRATION_ENDPOINTS=http://clowderhost.net:9000/clowder/api/extractors?key=xxx
PROXY_ON=true
PROXY_HOST=http://clowderhost.net:9000/clowder/
PROXY_URL=http://clowderhost.net:9000/clowder/api/proxy/
GEOSERVER_USERNAME=admin
GEOSERVER_PASSWORD=geoserver
GEOSERVER_WORKSPACE=
GEOSERVER_URL=http://geoserver:8080/geoserver/
PYCSW_URL=http://pycswserver:8000/pycsw/
```

- Add a proxy entry to the Clowder custom.conf file:

custom.conf

```
clowder.proxy {
    geoserver="http://localhost:8081/geoserver",
    authtest="http://username:12345@httpbin.org/basic-auth/username/12345"
}
```

- Run `docker-compose -f docker-compose.geo.yml up`