# UI Deployment

Sources:

* <https://github.com/ontoportal/ontoportal-project/discussions/19>
* <https://github.com/ncbo/virtual_appliance/blob/main/deployment/deploy_ui.sh>

Steps:

1. sudo su - ontoportal
2. cd /srv/ontoportal/bioportal\_web\_ui/current
3. rm -rf \*
4. rm -rf .bundle/ .git .github/ .gitignore
5. git init
6. git remote add origin https://github.com/BiodivPortal/ontoportal\_web\_ui
7. git pull origin master
8. cp /srv/ontoportal/virtual\_appliance/appliance\_config/bioportal\_web\_ui/config/database.yml config/database.yml
9. cp /srv/ontoportal/virtual\_appliance/appliance\_config/bioportal\_web\_ui/config/secrets.yml config/secrets.yml
10. bundle config --local path /srv/ontoportal/.bundle
11. bundle config --local without development:test
12. bundle install
13. yarn install --production
14. cp config/biodivportal\_config\_env.rb.sample config/bioportal\_config\_appliance.rb
15. nano config/bioportal\_config\_appliance.rb
    1. API\_KEY
    2. NCBO\_API\_KEY
16. rm -rf config/credentials/appliance.\*
17. RAILS\_ENV="appliance" EDITOR="nano" bin/rails credentials:edit --environment appliance
18. RAILS\_ENV=appliance RAILS\_SERVE\_STATIC\_FILES=1 RAILS\_LOG\_TO\_STDOUT=1 bin/rake assets:precompile
19. sudo oprestart

Inspect logs:

1. with centos user: sudo su
2. logs are located at /var/log/httpd
   1. useful was: error\_log

Error:

App 9286 output: Missing encryption key to decrypt file with. Ask your team for your master key and write it to /srv/ontoportal/bioportal\_web\_ui/releases/20230223101930/config/credentials/appliance.key or put it in the ENV['RAILS\_MASTER\_KEY'].

# Backend Deployment

Sources:

* <https://github.com/ontoportal/ontoportal-project/discussions/19>
* <https://github.com/ncbo/virtual_appliance/blob/main/deployment/deploy_api.sh>

Steps:

1. sudo su - ontoportal
2. cd /srv/ontoportal/ontologies\_api/current
3. remove every file inside this folder
4. git init
5. git remote add origin <https://github.com/BiodivPortal/ontologies_api>
6. git fetch origin
7. git checkout master
8. git pull
9. mkdir -p /srv/ontoportal/ontologies\_api/shared /srv/ontoportal/ontologies\_api/releases
10. mkdir -p /srv/ontoportal/ontologies\_api/shared/log /srv/ontoportal/ontologies\_api/shared/tmp/pids /srv/ontoportal/ontologies\_api/shared/tmp/sockets /srv/ontoportal/ontologies\_api/shared/public/system
11. rm -rf /srv/ontoportal/ontologies\_api/releases/20230228134244/log
12. mkdir -p tmp/pids
13. mkdir -p tmp/sockets
14. mkdir -p public/system
15. ln -s /srv/ontoportal/ontologies\_api/shared/log /srv/ontoportal/ontologies\_api/releases/20230228134244/log
16. ln -s /srv/ontoportal/ontologies\_api/shared/tmp/pids /srv/ontoportal/ontologies\_api/releases/20230228134244/tmp/pids
17. ln -s /srv/ontoportal/ontologies\_api/shared/tmp/sockets /srv/ontoportal/ontologies\_api/releases/20230228134244/tmp/sockets
18. ln -s /srv/ontoportal/ontologies\_api/shared/public/system /srv/ontoportal/ontologies\_api/releases/20230228134244/public/system
19. bundle config --local path /srv/ontoportal/.bundle
20. bundle config --local without development:test
21. gem install bundler -v "$(grep -A 1 "BUNDLED WITH" Gemfile.lock | tail -n 1)" --user-install
22. bundle install
23. bundle binstubs --all
24. rsync -av --ignore-existing /srv/ontoportal/virtual\_appliance/appliance\_config/ontologies\_api/ /srv/ontoportal/ontologies\_api/releases/20230228134244/
25. sudo oprestart

Useful commands:

* sudo opstatus
* sudo systemctl restart unicorn

Useful log:

* /var/log/messages

# NCBO\_CRON Deployment

* sudo su - ontoportal
* tocron
* remove every file inside this folder
* git init
* git remote add origin https://github.com/BiodivPortal/ncbo\_cron
* git fetch origin
* git checkout master
* git pull
* gem install bundler -v "$(grep -A 1 "BUNDLED WITH" Gemfile.lock | tail -n 1)" --user-install
* bundle config set --local path /srv/ontoportal/.bundle
* bundle install
* cp -v /srv/ontoportal/virtual\_appliance/appliance\_config/site\_config.rb /srv/ontoportal/virtual\_appliance/appliance\_config/ncbo\_cron/config
* rsync -avr /srv/ontoportal/virtual\_appliance/appliance\_config/ncbo\_cron/\* /srv/ontoportal/ncbo\_cron
* sudo /bin/systemctl start ncbo\_cron

## Server Deployment

* Host > Virtualbox
  + Export current state of appliance as .ova
* Guest > CLI
  + Import .ova
    - vboxmanage import \*\*\*.ova
  + Create hostonly network interface “virtualbox0”
    - vboxmanage hostonlyif create
    - vboxmanage hostonlyif ipconfig vboxnet0 --ip=192.168.56.1 --netmask=255.255.255.0
  + Start vm
    - vboxmanage startvm ontoportal\_appliance-3.1.1 --type headless
* Reverse proxy
  + Instructions: <https://www.digitalocean.com/community/tutorials/how-to-configure-nginx-as-a-reverse-proxy-on-ubuntu-22-04>
  + server {
  + listen 80;
  + listen [::]:80;
  + server\_name biodivportal.org www.biodivportal.org;
  + location / {
  + proxy\_pass 192.168.56.10;
  + include proxy\_params;
  + }
  + }

## De.NBI Cloud Deployment

* NAT port forwarding
* convert to raw: VBoxManage clonehd ~/VirtualBox\ VMs/biodivportal/biodivportal-disk1.vdi biodivportal.img --format raw
* convert to qcow2: qemu-img convert -f raw -O qcow2 biodivportal.img biodivportal.qcow2

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