

Deploy Edurell app on server

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Connect to the server:

- `ssh pret_wiki@130.251.47.105`

passw: < ask to project administrator >

Update Edurell App Files from the repository:

Follow all the next steps to update the Edurell app...

Download updated files from the repository:

Go inside app folder (/var/www/edurell)

- `cd /var/www/edurell`

Pull new versions of files from repository

- `sudo git pull`
- username for github: Mirwe
- password: < ask to project administrator >

[\(if github credentials are not valid or you want to use your own credentials ...\)](#)

Update and setup Video Annotation App:

Go inside EdurellVideoAnnotation app folder

- `cd /var/www/edurell/EVA_apps/EdurellVideoAnnotation/`

Update dependencies from requirements.txt (if different from last version)

- `sudo /home/anaconda3/envs/myenv/bin/pip install -r ./requirements.txt`

Check that there is a punctuator folder containing the file "Demo-Europarl-EN.pcl"

[\(if punctuator or file is not inside EdurellVideoAnnotation folder...\)](#)

Go in static folder, then create folder videos and give permissions

- `cd /var/www/edurell/EVA_apps/EdurellVideoAnnotation/static`
- (create the folder if you don't have it already -> `sudo mkdir videos`)
- `sudo chmod 777 ./videos`

Restart VideoAnnotation App

- `sudo systemctl restart edurell`
-

Update and setup Video Augmentation App:

Go inside EdurellVideoAugmentation app folder

- `cd /var/www/edurell/EVA_apps/EdurellVideoAugmentation/`

Go inside flask-server folder and update dependencies from requirements.txt (if different from last version)

- `cd ./src/flask-server/`
- `sudo /home/anaconda3/envs/env-wp3/bin/pip install -r ./requirements.txt`

Go inside react-app folder

- `cd /var/www/edurell/EVA_apps/EdurellVideoAugmentation/src/react-app`

IF you have a build folder delete it

- `sudo rm -r ./build`

Update npm packages

- `sudo npm install`

Create new version of the react app build

- `sudo -s`
- `npm run build`

Restart VideoAugmentation App

- `sudo systemctl restart edurell-wp3`

Useful commands:

Those commands should be used for debugging or for big changes in the server structure.

Commands for systemctl:

(Additional commands for edurell systemctl modules)

There are 3 important modules of systemctl (that you can use as <name> in the commands:

- `edurell` (Video Annotation App)
 - `edurell-wp3` (Video Augmentation App)
 - `nginx` (Global connection for the server)
-
- `sudo systemctl enable <name>` (enable systemctl)
 - `sudo systemctl status <name>` (view info about the status)
 - `sudo systemctl start <name>` (start the app)
 - `sudo systemctl stop <name>` (stop the app)
 - `sudo journalctl -u <name>` (checks your app's logs)

(For the Edurell app to work and be accessible all 3 of these modules must be active and running.)

Launch gunicorn:

(used to run the first app on 127.0.0.1:5050)

(**note:** this is done automatically by “systemctl edurell”, no need to do this commands unless it is for debugging this steps)

- `cd /var/www/edurell/EVA_apps/EdurellVideoAnnotation/`
- `/home/anaconda3/envs/myenv/bin/gunicorn --bind 127.0.0.1:5050 connector:app --timeout 180 -limit-request-line 0`

([if found error: cannot find module punctuator or similar...](#))

View gunicorn instances:

- `ps -ef|grep gunicorn`

Run manually Video Augmentation App:

(**note:** this is done automatically by “systemctl edurell”, no need to do this commands unless it is for debugging this steps)

- `cd /var/www/edurell/EVA_apps/EdurellVideoAugmentation/src/flask-server`
- `sudo /home/anaconda3/envs/env-wp3/bin/python ./main.py`

Important Files:

Github Repository folder: **`/var/www/edurell`**

Video Annotation folder: **`/var/www/edurell/EVA_apps/EdurellVideoAnnotation/`**

Video Augmentation folder: **`/var/www/edurell/EVA_apps/EdurellVideoAugmentation/`**

Server run service Video Annotation: **`/etc/systemd/system/edurell.service`**

Server run service Video Augmentation: **`/etc/systemd/system/edurell-wp3.service`**

```
[Unit]
Description=Gunicorn instance to serve edurell
After=network.target
[Service]
User=pret_wiki
Group=pret_wiki
WorkingDirectory=/var/www/edurell/EVA_apps/EdurellVideoAnnotation
Environment="PATH=/home/anaconda3/envs/myenv/bin"
ExecStart=/home/anaconda3/envs/myenv/bin/gunicorn --workers 5 --bind 127.0.0.1:5050 -m 777 connector:app --timeout 1560 --limit-request-line 0
[Install]
WantedBy=multi-user.target

[Unit]
Description=Launch python flask
After=network.target
[Service]
User=pret_wiki
Group=pret_wiki
WorkingDirectory=/var/www/edurell/EVA_apps/EdurellVideoAugmentation/src/flask-server
Environment="PATH=/home/anaconda3/envs/env-wp3/bin"
ExecStart=/home/anaconda3/envs/env-wp3/bin/python main.py
[Install]
WantedBy=multi-user.target
```

NGINX:

`/etc/nginx/sites-enabled/edurell-wp3`

(to setup server)

location / and /api are for react project of video augmentation.

Location /annotator is for annotation tool (was added prefix annotator for each route of app using reverseProxy class in config.py)

(Might be necessary to do "sudo systemctl daemon-reload" if editing those files)

```
server {
    listen 130.251.47.105:5000 default_server;
    #listen [::]:5000;

    # server_name 130.251.47.105;
    #server_name _;
    #server_name localhost;
    # root /var/www/edurell/EVA_apps/EdurellVideoAugmentation/src/react-app/build;
    #root /var/www/test ;
    #index index.html;

    location / {
        #root /var/www/test;
        root /var/www/edurell/EVA_apps/EdurellVideoAugmentation/src/react-app/build;
        index index.html;
        try_files $uri $uri/ =404;
    }

    location /api {
        include proxy_params;
        proxy_pass http://localhost:5000;
    }

    location ^~ /annotator/ {

        include proxy_params;
        proxy_read_timeout 3000;
        proxy_connect_timeout 3000;
        proxy_send_timeout 3000;

        proxy_pass http://127.0.0.1:5050/;

        # proxy_set_header Upgrade $http_upgrade;
        # proxy_set_header Connection "upgrade";
        # proxy_redirect      off;
    }
}
```

Bugs or Common Issues:

Provided github credentials are not valid:

You can use your own github credentials:

```
$ git clone https://github.com/...
```

Username: *your_username*

Password: *your_token* -> ([how to create a personal github access token](#))

Punctuator or "Demo-Europarl-EN" file is not inside EdurellVideoAnnotation folder:

You can create the folder:

- `cd /var/www/edurell/EVA_apps/EdurellVideoAnnotation/`
- `sudo mkdir ./punctuator`

And you can copy the Demo-Europarl-EN file inside from a backup directory:

- `sudo cp /var/www/important_files/Demo-Europarl-EN.pcl /var/www/edurell/EVA_apps/EdurellVideoAnnotation/punctuator/`

(might be necessary to give "chmod 777" permissions to this file)

Found error: cannot find module punctuator or similar:

This is caused by Incompatibility between (gunicorn <=> punctuator python module)

(gunicorn create a punctuator file inside home/anaconda3/envs/myenv/bin environment folder)

(to remove this issue we removed this folder from the python sys paths before the import of punctuator module:

```
import sys
incompatible_path = '/home/anaconda3/envs/myenv/bin'
if incompatible_path in sys.path:
    sys.path.remove(incompatible_path)
from punctuator import Punctuator
)
```

Have a look on this issue: (<https://github.com/chrispen/punctuator2/issues/3>)