

OTP authenticator for php

1. Create a python virtual environment in a location your web server can access:

```
cd /home/user/html
mkdir -p /home/user/html/pyotp-env
sudo chown user:www-data /home/user/html/pyotp-env
sudo chmod 770 /home/user/html/pyotp-env
```

2. Create a virtual environment as apache2 user and activate it:

```
sudo -s -u www-data
python3 -m venv /home/user/html/pyotp-env
source /home/user/html/pyotp-env/bin/activate
```

3. Install pyotp:

```
pip3 install pyotp
```

4. Create the python script /home/user/html/pyotp-env/otp.py:

```
# Python script to generate authenticator OTP
import pyotp

# Your Base32 secret key (provided when setting up 2FA)
secret = "ABCDE1FGHIJK2LMN"

# Initialize TOTP
totp = pyotp.TOTP(secret)

# Generate the current 6-digit code
current_code = totp.now()
print(current_code)
```

5. Check execution of pyotp:

```
python3 /home/user/html/pyotp-env/otp.py
```

6. Create a bash script:

```
vim /home/user/html/otp.sh
#!/bin/bash
source /home/user/html/pyotp-env/bin/activate
python3 /home/user/html/pyotp-env/otp.py
deactivate
exit 0
```

7. Create a php web page which calls the script:

```
vim /home/user/html/otptest.php
<?php
```

```
$output = shell_exec('/home/bco/html/otp.sh');  
echo $output;
```

8. Give the scripts correct ownership and permissions:

```
sudo chown www-data:www-data /home/bco/html/pyotp-env/otp.py  
sudo chown www-data:www-data /home/bco/html/otp.sh  
sudo chmod +x /home/bco/html/otp.sh
```

9. In Synology, you can check the OTP like this:

```
synootp username=user code=otp-code
```

From:

<https://wiki.condrau.com/> - **Bernard's Wiki**

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