django-admin-two-factor-auth Documentation

Release latest

Jan 17, 2023

CONTENTS

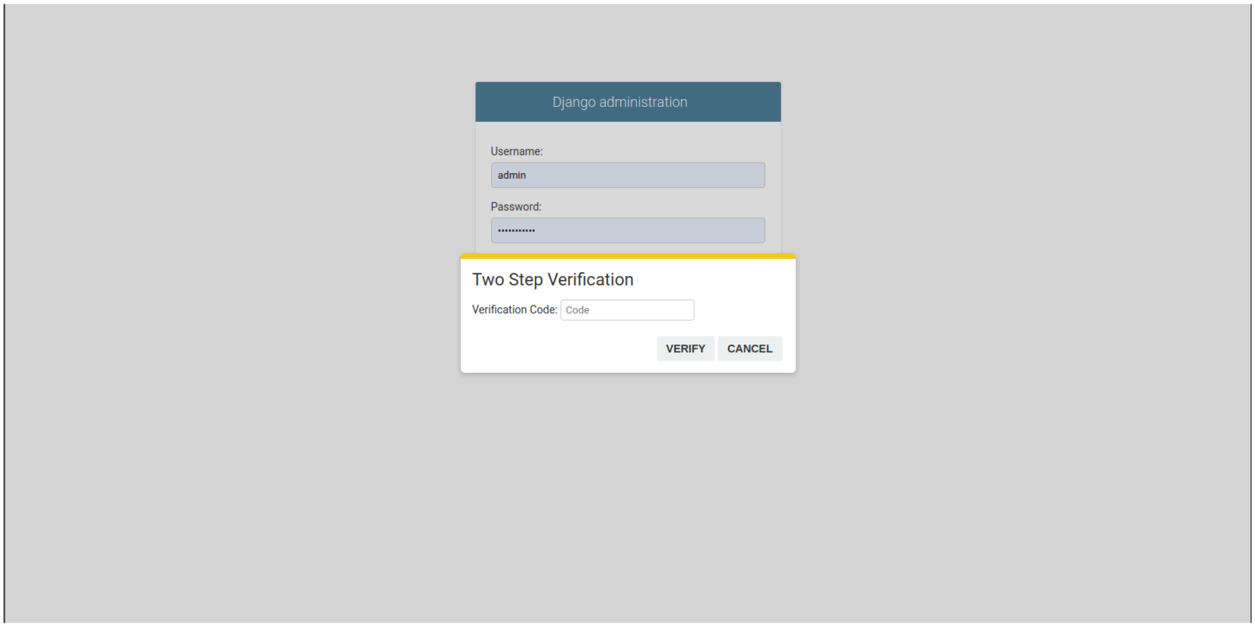
Google Two-Factor Authentication for Django admin. Inspired by the user experience of Google's Two-Step Authentication, allowing users to authenticate by using a token generator app like Google-Authenticator.

CHAPTER

ONE

WHY DJANGO ADMIN TWO-FACTOR AUTHENTICATION?

- Using google authenticator to login your Django admin.
- Used jquery confirm dialog to get code.
- Simple interface
- Easy integration



Django administration

Username: admin

Password: ••••••••••••

Two Step Verification

Verification Code: Code

CHAPTER

TWO

CONTENTS:

2.1 Requirements

2.1.1 Django

Modern Django versions are supported. Currently this list includes Django 2.*, and 3.2

2.1.2 Python

The following Python versions are supported: 3.5, 3.6, 3.7 and 3.8 with a limit to what Django itself supports. As support for older Django versions is dropped, the minimum version might be raised. See also What Python version can I use with Django?.

2.1.3 PyOTP

This project is used for generating one-time passwords. PyOTP is a Python library for generating and verifying one-time passwords. It can be used to implement two-factor (2FA) or multi-factor (MFA) authentication methods in web applications and in other systems that require users to log in.

2.1.4 QRCode

A Quick Response code (QRCode) is a two-dimensional pictographic code used for its fast readability and comparatively large storage capacity. The code consists of black modules arranged in a square pattern on a white background. The information encoded can be made up of any kind of data (e.g., binary, alphanumeric, or Kanji symbols)

2.1.5 Pillow

PIL is the Python Imaging Library adds image processing capabilities to your Python interpreter. This library provides extensive file format support, an efficient internal representation, and fairly powerful image processing capabilities.

2.2 Installation

- Download and install last version of Django Admin Two-Factor Authentication:

```
$ pip install django-admin-two-factor
```

2.2.1 Setup

- Add `admin_two_factor` application to the `INSTALLED_APPS` setting of your Django project `settings.py` file (note it should be before `django.contrib.admin`):

```
INSTALLED_APPS = (
    'admin_two_factor.apps.TwoStepVerificationConfig',
    'django.contrib.admin',
    ...
)
```

- Migrate `admin_two_factor`:

```
$ python manage.py migrate admin_two_factor
# or
$ python manage.py syncdb
```

- Add `ADMIN_TWO_FACTOR_NAME` in your `settings.py`. This value will be displayed in Google Authenticator.

```
ADMIN_TWO_FACTOR_NAME = 'PROJECT_NAME'
```

- Include the Admin Two Factor URL config in `PROJECT_CORE/urls.py`:

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('two_factor/', include(('admin_two_factor.urls', 'admin_two_factor'), namespace=
↪'two_factor')),
    ...
]
```

- Collect static if you are in production environment:

```
$ python manage.py collectstatic
```

- Clear your browser cache

2.3 Run & Demo

2.3.1 Run

```
# Set up the database
$ python manage.py makemigrations
$ python manage.py migrate

```

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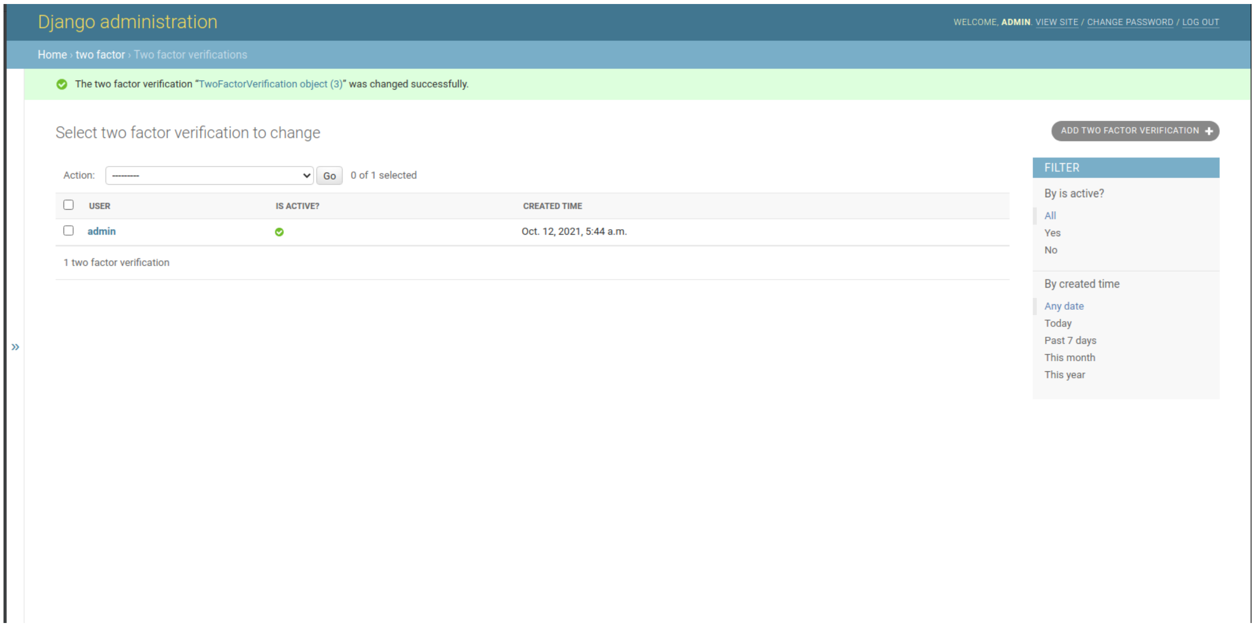
```
# Create the superuser
$ python manage.py createsuperuser

# Start the application (development mode)
$ python manage.py runserver # default port 8000
```

Access the `admin` section in the browser: `http://127.0.0.1:8000/`

2.3.2 Demo

User List: the users who have enabled two-factor auth



Django administration
WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › two factor › Two factor verifications

The two factor verification "TwoFactorVerification object (3)" was changed successfully.

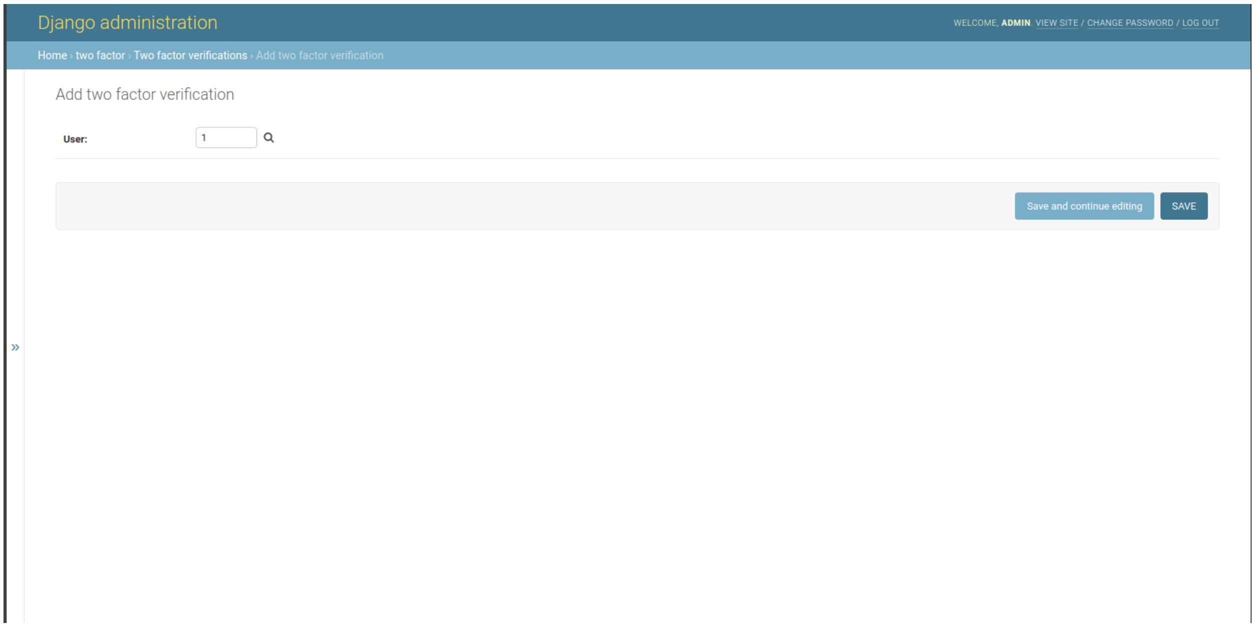
Select two factor verification to change

0 of 1 selected

□	USER	IS ACTIVE?	CREATED TIME
□	admin	✓	Oct. 12, 2021, 5:44 a.m.

1 two factor verification

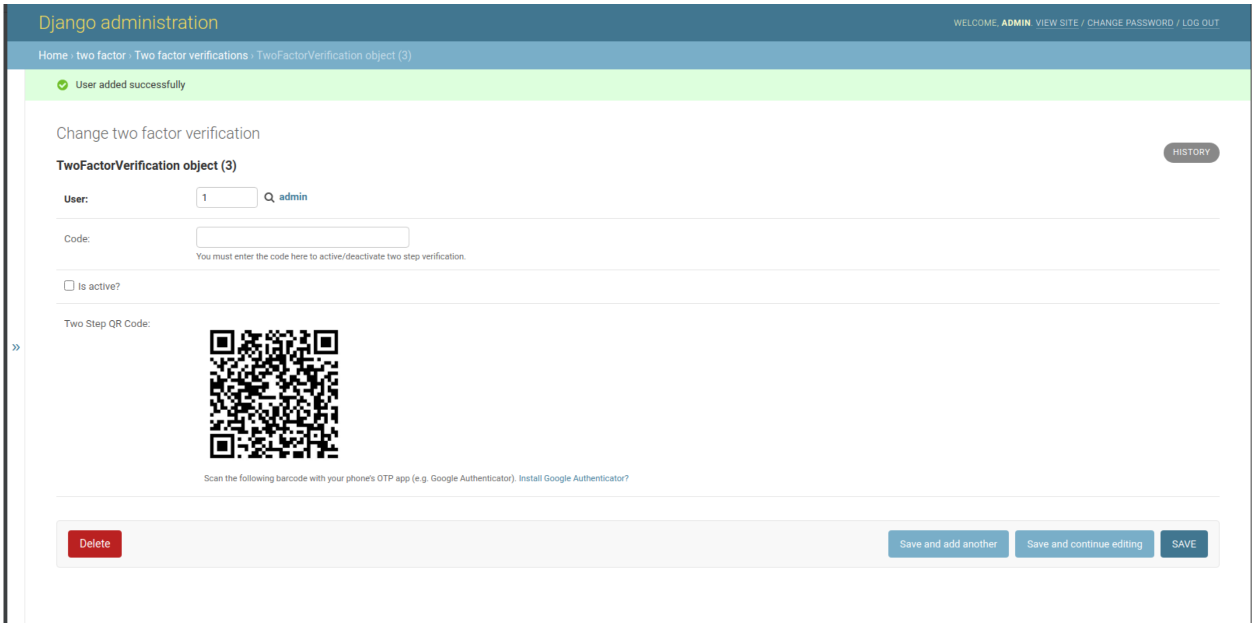
Add New User:


Django administration
WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › two factor › Two factor verifications › Add two factor verification
Save and continue editing
SAVE
»

Add two factor verification

User: 1

Scan QRCode and enter the valid code:


Django administration
WELCOME, ADMIN. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › two factor › Two factor verifications › TwoFactorVerification object (3)
HISTORY
Delete
Save and add another
Save and continue editing
SAVE
»

User added successfully

Change two factor verification

TwoFactorVerification object (3)

User: 1 admin

Code:

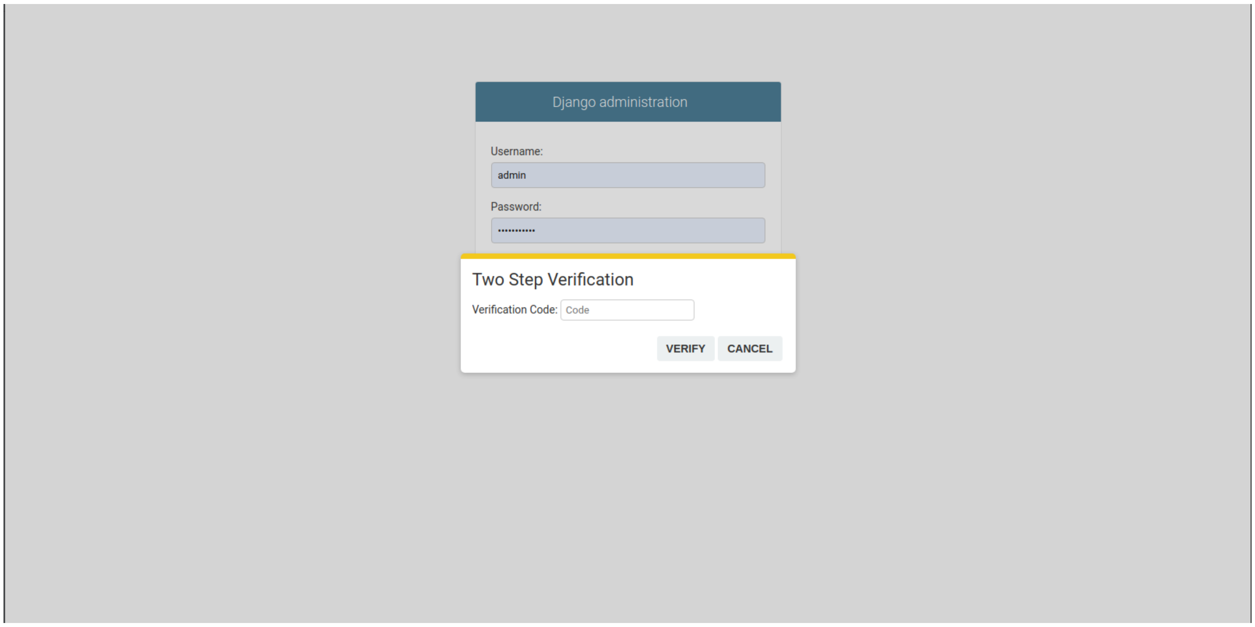
You must enter the code here to active/deactivate two step verification.

□ Is active?

Two Step QR Code:

Scan the following barcode with your phone's OTP app (e.g. Google Authenticator). Install Google Authenticator?

Logout and login again with Google Authenticator:



Django administration

Username: admin

Password: ••••••••••••

Two Step Verification

Verification Code: Code

I would love to hear your feedback on this application. If you run into problems, please file an issue on GitHub, or contribute to the project by forking the repository and sending some pull requests.