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# **django-herokuify Documentation**

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# QUICKSTART

Simplify Django configuration in two easy steps:

1. Include `django-herokuify` and `pylibmc` packages in your `requirements.txt` file.
2. In the Django `settings.py` of your Heroku project add:

```
import herokuify

from herokuify.common import *           # Common settings, SSL proxy header
from herokuify.aws import *              # AWS access keys
from herokuify.mail.mailgun import *     # Mailgun email add-on settings
from herokuify.mail.sendgrid import *    # ... or Sendgrid

DATABASES = herokuify.get_db_config()     # Database config
CACHES = herokuify.get_cache_config()     # Memcache config for Memcache/MemCachier
```

Additionally, you can also use storage backends that works nice with Amazon S3 and Django Compressor:

```
DEFAULT_FILE_STORAGE = "herokuify.storage.S3MediaStorage"
MEDIA_URL = "https://{0}.s3.amazonaws.com/media/".format(AWS_STORAGE_BUCKET_NAME)

STATICFILES_STORAGE = "herokuify.storage.CachedS3StaticStorage"
STATIC_URL = "https://{0}.s3.amazonaws.com/static/".format(AWS_STORAGE_BUCKET_NAME)

COMPRESS_STORAGE = "herokuify.storage.CachedS3StaticStorage"
COMPRESS_OFFLINE = True
```



# DEPENDENCIES

`django-herokuify` installs the following dependencies by default:

- Caching and cache configuration:

```
pylibmc>=1.2.3
django-pylibmc-sasl>=0.2.4
django-heroku-memcacheify>=0.3
```

- DB configuration:

```
dj-database-url>=0.2.1
django-heroku-postgresify>=0.2
```

- Storage backend:

```
django-storages>=1.1.5
boto>=2.6.0
```

Note: It is necessary include `pylibmc` package entry in your project's root `requirements.txt` file. The Heroku Django buildpack checks for this entry and configures the `libmemcached` C build dependency.





# CONTENT

## 3.1 Common settings

Commonly used configuration.

## 3.2 Database configuration

Provides `herokuify.db.get_db_config()` function that reads PostgreSQL database settings from Heroku environment.

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**Note:** This functionality relies on [django-heroku-postgresify](#).

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### 3.2.1 Django config

Use this to configure database settings in your Django project:

```
import herokuify
DATABASES = herokuify.get_db_config()
```

## 3.3 Cache

Provides `herokuify.cache.get_cache_config()` that reads Memcache cache settings from Heroku environment for [Memcache](#) or [MemCachier](#) add-ons.

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**Note:** This functionality relies on [django-heroku-memcacheify](#).

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### 3.3.1 Django config

Use this to configure cache settings in your Django project:

```
import herokuify
CACHES = herokuify.get_cache_config()
```

### 3.3.2 Heroku config

Use `heroku addons` command to subscribe for [Memcache](#) or [MemCachier](#).

Quick start with either:

```
heroku addons:add memcache:5mb  
  
heroku addons:add memcachier:dev
```

## 3.4 Email configuration

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**Note:** For now the project includes only Mailgun and Sendgrid configuration. Feel free to contribute definitions for other providers.

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### 3.4.1 Mailgun add-on

Retrieves [Mailgun add-on](#) settings from the environment and defines the following variables in the `herokuify.mail.mailgun` module:

- `MAILGUN_API_KEY`
- `MAILGUN_SMTP_SERVER`
- `MAILGUN_SMTP_LOGIN`
- `MAILGUN_SMTP_PASSWORD`
- `MAILGUN_SMTP_PORT`

as well as `EMAIL_*` settings for use in Django config:

- `EMAIL_HOST`
- `EMAIL_HOST_USER`
- `EMAIL_HOST_PASSWORD`
- `EMAIL_PORT`

### Django config

Import settings from this module into your Django project settings:

```
from herokuify.mail.mailgun import EMAIL_HOST, EMAIL_HOST_USER, EMAIL_HOST_PASSWORD, EMAIL_PORT
```

### Installing add-on

Use `heroku addons` command to subscribe for [Mailgun add-on](#):

```
heroku addons:add mailgun:<PLAN>
```

Quick start with:

```
heroku addons:add mailgun:starter
```

### 3.4.2 Sendgrid add-on

Retrieves [Sendgrid add-on](#) settings from the environment and defines the following variables in the `herokuify.mail.sendgrid` module:

- `SENDGRID_SMTP_SERVER`
- `SENDGRID_USERNAME`
- `SENDGRID_PASSWORD`
- `SENDGRID_SMTP_PORT`

as well as `EMAIL_*` settings for use in Django config:

- `EMAIL_HOST`
- `EMAIL_HOST_USER`
- `EMAIL_HOST_PASSWORD`
- `EMAIL_PORT`
- `EMAIL_USE_TLS`

#### Django config

Import settings from this module into your Django project settings:

```
from herokuify.mail.sendgrid import EMAIL_HOST, EMAIL_HOST_USER, EMAIL_HOST_PASSWORD, EMAIL_PORT, EMAIL_USE_TLS
```

#### Installing add-on

See [Sendgrid add-on page](#). Quick start with:

```
heroku addons:add sendgrid:starter
```

### 3.4.3 Defined module attributes

#### Mailgun

#### Sendgrid

## 3.5 Amazon AWS settings

Reads common AWS settings like `AWS_ACCESS_KEY_ID`, `AWS_SECRET_ACCESS_KEY` and `AWS_STORAGE_BUCKET_NAME` from Heroku environment.

### 3.5.1 Django config

Simply import settings from this module into your Django project settings file:

```
from herokuify.aws import AWS_ACCESS_KEY_ID, AWS_SECRET_ACCESS_KEY, AWS_STORAGE_BUCKET_NAME
```

### 3.5.2 Heroku config

Use `heroku config` command to define the values:

```
heroku config:add AWS_ACCESS_KEY_ID=<key id>
heroku config:add AWS_SECRET_ACCESS_KEY=<secret key>
heroku config:add AWS_STORAGE_BUCKET_NAME=<bucket name>
```

### 3.5.3 Defined model attributes

## 3.6 Storage Backends

Defines S3 bucket subdirectory storage for static and media files and provides storage backends that are compatible with [Django Compressor](#).

### 3.6.1 Django config

To use AWS S3 storage for static and media files set this in your project settings:

```
STATICFILES_STORAGE = "herokuify.storage.S3StaticStorage"
STATIC_URL = "https://{0}.s3.amazonaws.com/static/".format(AWS_STORAGE_BUCKET_NAME)

DEFAULT_FILE_STORAGE = "herokuify.storage.S3MediaStorage"
MEDIA_URL = "https://{0}.s3.amazonaws.com/media/".format(AWS_STORAGE_BUCKET_NAME)
```

There's also a storage that works well with Django Compressor, `collectstatic` command and offline assets compression:

```
STATICFILES_STORAGE = "herokuify.storage.CachedS3StaticStorage"
STATIC_URL = "https://{0}.s3.amazonaws.com/static/".format(AWS_STORAGE_BUCKET_NAME)

COMPRESS_STORAGE = "herokuify.storage.CachedS3StaticStorage"
COMPRESS_OFFLINE = True
```

Remember to configure and include *Amazon AWS settings* config in your settings as well enable user environment variables in the [Slug compilation](<https://devcenter.heroku.com/articles/slug-compiler>) build phase, so the storage backend is able to connect to S3 when executing `collectstatic` and `compress` commands:

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**Note:** [Django on Heroku: installing NodeJS and Less for static assets compilation](#) and [Django and Heroku Cookbook](#) provides more information and build scripts for automatic static files compression during deployment.

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## 3.6.2 Available storage backends

S3 Static and Media storage

Django Compressor-compatible storage