
Template Django Wagtail Documentation

Release 0.1.0

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Nov 10, 2017

Contents:

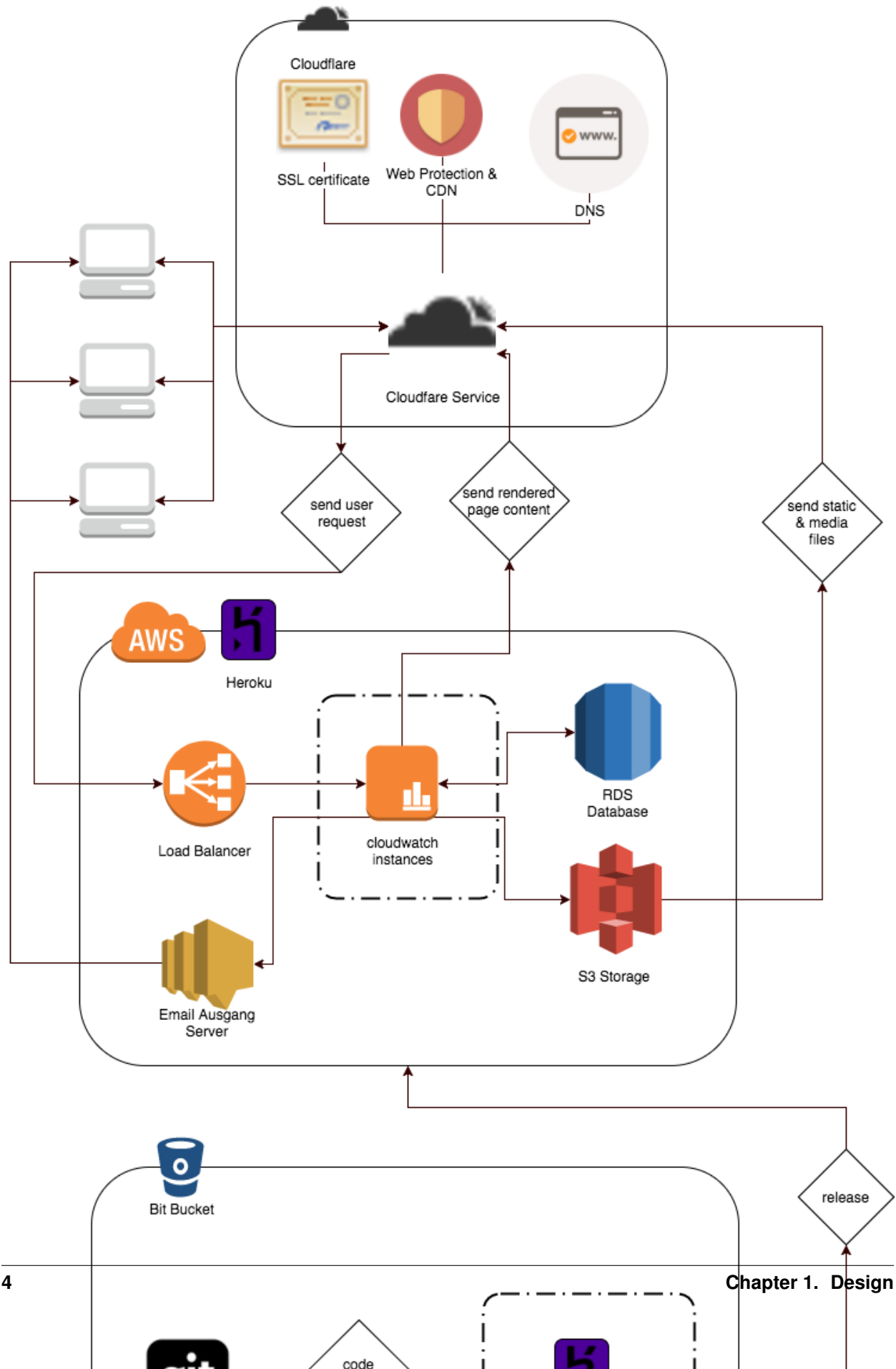
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Intro Text

1.1 System Design

1.1.1 Infrastructure

| Service | Provider |
|-------------------------|---|
| Web Instance | https://dashboard.heroku.com/ |
| Database | https://dashboard.heroku.com/ |
| Static & Media Files | https://aws.amazon.com/s3 |
| Email E-Commerce Server | https://aws.amazon.com/ses |
| Web Protection | https://www.cloudflare.com/ |



2.1 Deployment (for Mac & Linux)

2.1.1 Heroku

Create a new IAM User for aws

Go on [create new IAM user](#) to create a new IAM User for your S3 Bucket.

At first enter a *User name* and activate `Programmatic` access and then on Next : `Permission` button.

Add user

1

2

3

4

DetailsPermissionsReviewComplete

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name*

[Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* ☒ **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☐ **AWS Management Console access**
Enables a **password** that allows users to sign-in to the AWS Management Console.

* Required

[Cancel](#) [Next: Permissions](#)

On the next page Set permissions for YourNewIamUser just click on Next : Review without to add any group or policies.

Services Resource Groups

Add user

1 Details 2 Permissions 3 Review 4 Complete

Set permissions for YourNewIamUser

Add user to group Copy permissions from existing user Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Create group Refresh

Search Showing 2 results

| Group | Attached policies |
|-------|-------------------|
| | |
| | |

Feedback English

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On Review ignore the warning `This user has no permissions` and click on `Create User`.

Add user

1 Details 2 Permissions 3 Review 4 Complete

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

This user has no permissions
You haven't given this user any permissions. This means that the user has no access to any AWS service or resource. Consider returning to the previous step and adding some type of permissions.

User details

| | |
|-----------------|--|
| User name | YourNewIamUser |
| AWS access type | Programmatic access - with an access key |

Cancel Previous Create user

On the last page write down your new `Access key ID` & `Secret access key` to use it later on the deployment. And in the end click on `Close`

Now get the `User ARN`, for that click on your new created user.

In the `Summary` page you will see the `user ARN`, also write it down for using to setup your `S3 Bucket`.

Setup a S3 Bucket

To create a `S3 Bucket` for the media & static files go on `create new S3 Bucket` and click on `+ Create bucket`.

In the following wizard enter your `Bucket name` and select your `Region` than click on `Next`.

On the next page 'Set properties' just click on `Next`.

And again on 'Set permission' just click on `Next`.

For the last time 'Review' just click on `Create Bucket`.

So after the `Bucket` is created click on your new `Bucket` in the list and on the right side click on `Permissions`.

At next click on `Bucket Policy` and write down the following policy.

Add user



Success
 You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.
 Users with AWS Management Console access can sign-in at: <https://080644610589.signin.aws.amazon.com/console>

Download .csv

| User | Access key ID | Secret access key |
|--|----------------------|---|
| <input checked="" type="checkbox"/> YourNewIamUser | AKIAI2WATPS4BBY62LMA | BLVQzCjHw1qANDEw7QykpCCED8D5ZkH2q9SZfr Hide |

Close

Search IAM

Add user

Delete user

Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

Encryption keys

Q Find users by username or access key

Showing 4 results

| User name | Groups | Access key age | Password age | Last activity | MFA |
|---|------------|----------------|--------------|---------------|-------------|
| <input type="checkbox"/> [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] |
| <input type="checkbox"/> [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] |
| <input type="checkbox"/> [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] |
| <input type="checkbox"/> YourNewIamUser | None | None | None | None | Not enabled |

Search IAM

Users > YourNewIamUser

Summary

Dashboard

Groups

Users

Roles

Policies

Identity providers

Account settings

Credential report

Encryption keys

User ARN

Path

Creation time

arn:aws:iam::080644610589:user/YourNewIamUser

/

2017-07-13 09:47 UTC+0200

Permissions

Groups (0)

Security credentials

Access Advisor

Get started with permissions

This user doesn't have any permissions yet. Get started by adding the user to a group, copying permissions from another user, or attaching a policy directly. [Learn more](#)

Add permissions

Add inline policy

Amazon S3

Switch to the old console

Discover the new console

Quick tips

Q Search for buckets

Create bucket

Delete bucket

Empty bucket

10 Buckets 3 Regions

| Bucket name | Region | Date created |
|-------------|------------|--------------|
| [redacted] | [redacted] | [redacted] |
| [redacted] | [redacted] | [redacted] |

Create bucket

1

Name and region

2

Set properties

3

Set permissions

4

Review

Name and region

Bucket name i

Region

EU (Ireland) ▼

Copy settings from an existing bucket

Select bucket (optional) 10 Buckets ▼

Create

Cancel

Next

Create bucket

1 Name and region

2 Set properties

3 Set permissions

4 Review

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

☐ Disabled

Logging

Set up access log records that provide details about access requests.

[Learn more](#)

☐ Disabled

Tags

Use tags to track your cost against projects or other criteria.

[Learn more](#)

☐ 0 Tags

[Previous](#)[Next](#)

Create bucket

✓ Name and region

✓ Set properties

3 Set permissions

4 Review

Manage users

| User ID <small>i</small> | Objects <small>i</small> | Object permissions <small>i</small> | |
|--------------------------|--|--|---|
| <div></div> | <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write | <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write | × |

Manage public permissions

Do not grant public read access to this bucket (Recommended) ▼

Manage system permissions

Do not grant Amazon S3 Log Delivery group write access to this bucket ▼

Previous

Next

Create bucket

✓

Name and region

✓

Set properties

✓

Set permissions

4

Review

Name and region

Edit

Bucket name

your-bucket-name333

Region

EU (Ireland)

Properties

Edit

Versioning

Disabled

Logging

Disabled

Tagging

0 Tags

Permissions

Edit

Users

1

Public permissions

Disabled

System permissions

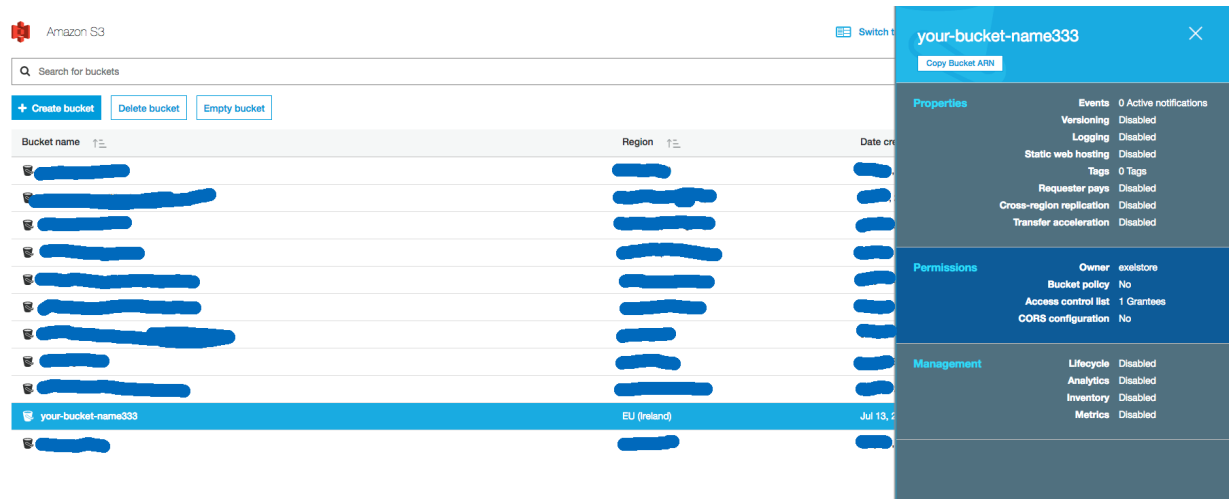
Disabled

Previous

Create bucket

2.1. Deployment (for Mac & Linux)

11



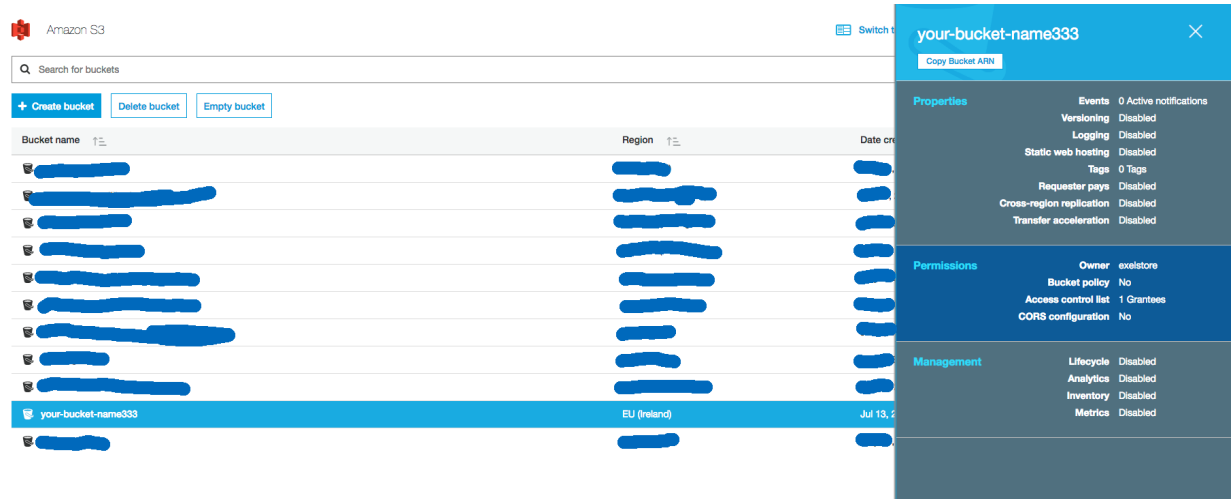
Important change BUCKET-NAME with your Bucket name and USER-ARN with your just before created user.

```
{
  "Version": "2008-10-17",
  "Statement": [
    {
      "Sid": "PublicReadForGetBucketObjects",
      "Effect": "Allow",
      "Principal": {
        "AWS": "*"
      },
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::BUCKET-NAME/*"
    },
    {
      "Effect": "Allow",
      "Principal": {
        "AWS": "USER-ARN"
      },
      "Action": "s3:*",
      "Resource": [
        "arn:aws:s3:::BUCKET-NAME",
        "arn:aws:s3:::BUCKET-NAME/*"
      ]
    }
  ]
}
```

Cors Setup

```
<CORSConfiguration>
  <CORSRule>
    <AllowedOrigin>*</AllowedOrigin>
    <AllowedMethod>GET</AllowedMethod>
    <MaxAgeSeconds>3000</MaxAgeSeconds>
    <AllowedHeader>Authorization</AllowedHeader>
  </CORSRule>
</CORSConfiguration>
```

Policy & Cors by Wagtail.io: [Wagtail.io Blog - Amazon S3](https://wagtail.io/blog/amazon-s3/)



Heroku Deployment

Official Tutorial from Heroku: <https://devcenter.heroku.com/articles/deploying-python>

Create a Heroku App

```
$ heroku login
Enter your Heroku credentials.
...
$ heroku create --region eu
Creating intense-falls-9163... done, stack is cedar
http://intense-falls-9163.herokuapp.com/ | git@heroku.com:intense-falls-9163.git
Git remote heroku added
$ git push heroku master
...
-----> Python app detected
...
-----> Launching... done, v7
https://intense-falls-9163.herokuapp.com/ deployed to Heroku
```

Setup Enviroment

Run the `setup_heroku.sh` bash script to setup the environment for the heroku instance.

```
$ ./setup_heroku.sh
```

Fill the Database & Upload the Static files

```
$ heroku run python manage.py collectstatic --noinput
$ heroku run python manage.py createsuperuser
$ heroku run python manage.py oscar_populate_countries
```

Setup a Domain

<https://devcenter.heroku.com/articles/custom-domains>

Show if anything work's fine

```
$ heroku info
```

Continuous Deployment

To enable Continuous Deployment on Bitbucket.com enable Piples in your Bitbucket project & set the enviarables
`HEROKU_APP_NAME` & `HEROKU_API_KEY`

More details: <https://bitbucket.org/spittet/heroku-deploy>

Push Updates (CLI)

This is only if you want to push updates via the CLI

```
$ git add -A
$ git commit -m "your update"
$ git commit -m "your update"
$ heroku run python manage.py collectstatic --noinput
$ heroku run python manage.py migrate
$ heroku run python manage.py createsuperuser
```

CHAPTER 3

Indices and tables

- `genindex`
- `modindex`
- `search`