Gatsby

+

Plone

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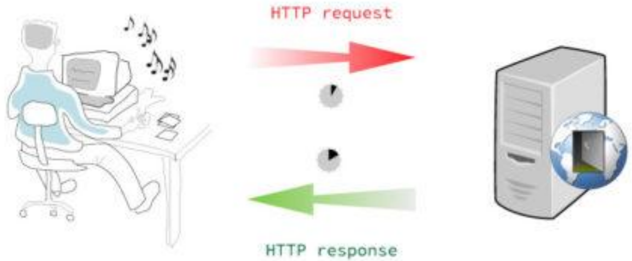
Gatsby

Open Source Framework based on React for building Static Sites

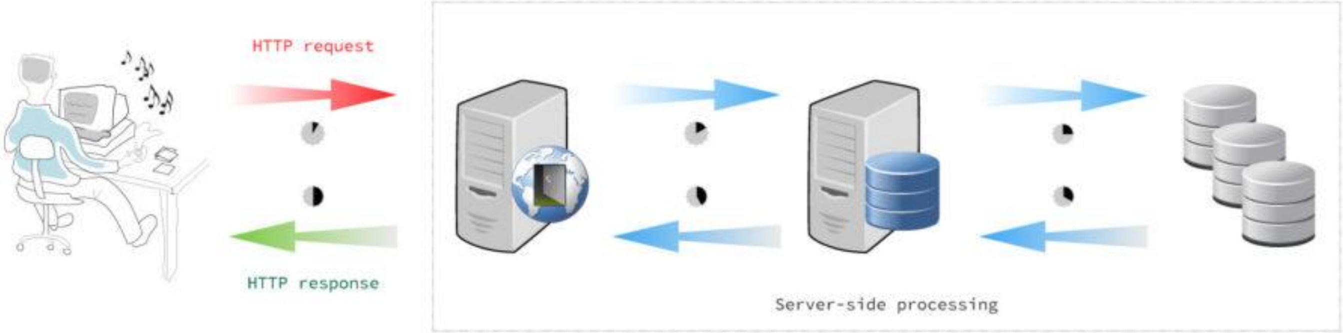
Scheme A

Static Website



Scheme B

Dynamic Website



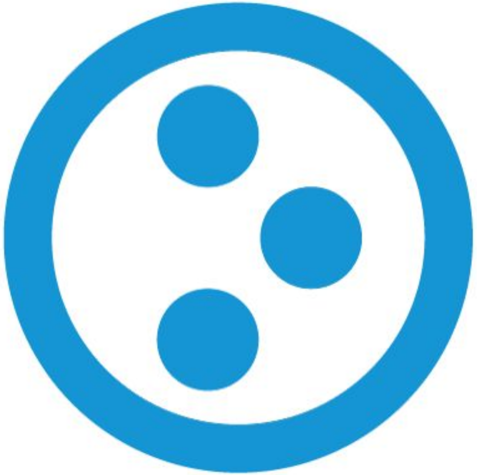
Gatsby

Plone (CMS API)

CircleCI (CI)

GitHub Pages (hosting)

Plone REST API



plone.restapi

Plone Docker

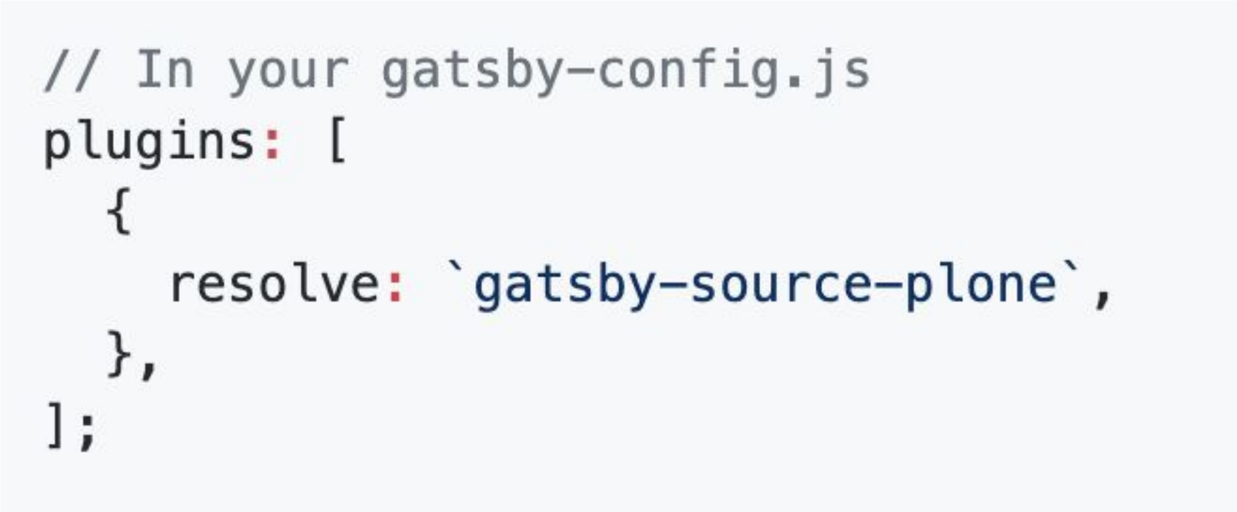
https://hub.docker.com/r/kitconcept/plone.restapi/tags/

```
$ docker pull kitconcept/plone.restapi

$ docker run --rm -it -p 8080:8080
kitconcept/plone.restapi:latest
```

```
/* docker-compose.yml */

version: '3'
services:
  api:
    image: "kitconcept/plone.restapi"
    ports:
      - 8080:8080

$ docker-compose up
```

Gatsby + Plone: gatsby-source-plone

$ npm install **gatsby-source-plone** --save



```
// In your gatsby-config.js
plugins: [
  {
    resolve: `gatsby-source-plone`,
  },
];
```

For dev, it builds docker Plone image with MAKE

Gatsby + Plone: gatsby-source-plone

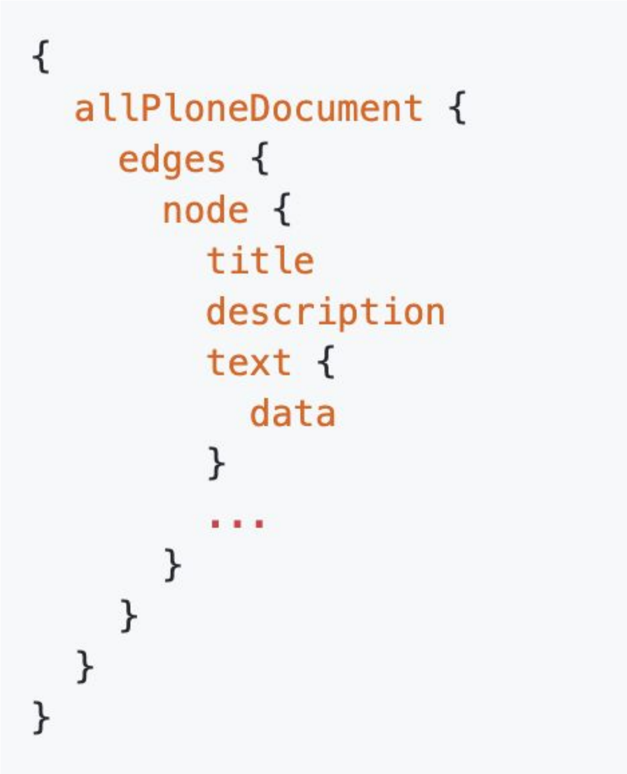
gatsby-config.js

```
plugins: [
  {
    resolve: 'gatsby-source-plone',
    options: {
      baseUrl: 'http://localhost:8080/Plone/',
      logLevel: 'DEBUG',
    },
```

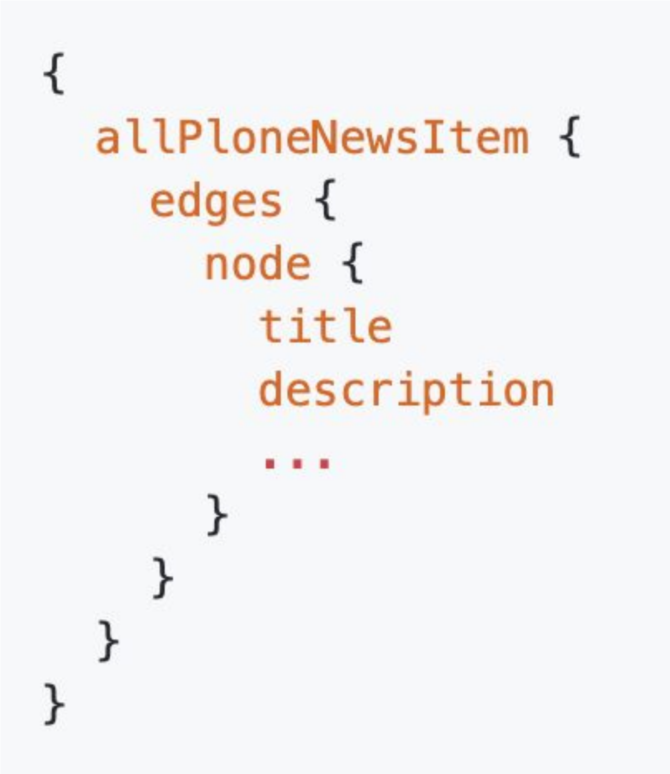
Gatsby + Plone: gatsby-starter-plone

```
$ npm install -g gatsby-cli

$ gatsby new project-name  https://github.com/collective/gatsby-starter-plone
```

GraphQL queries

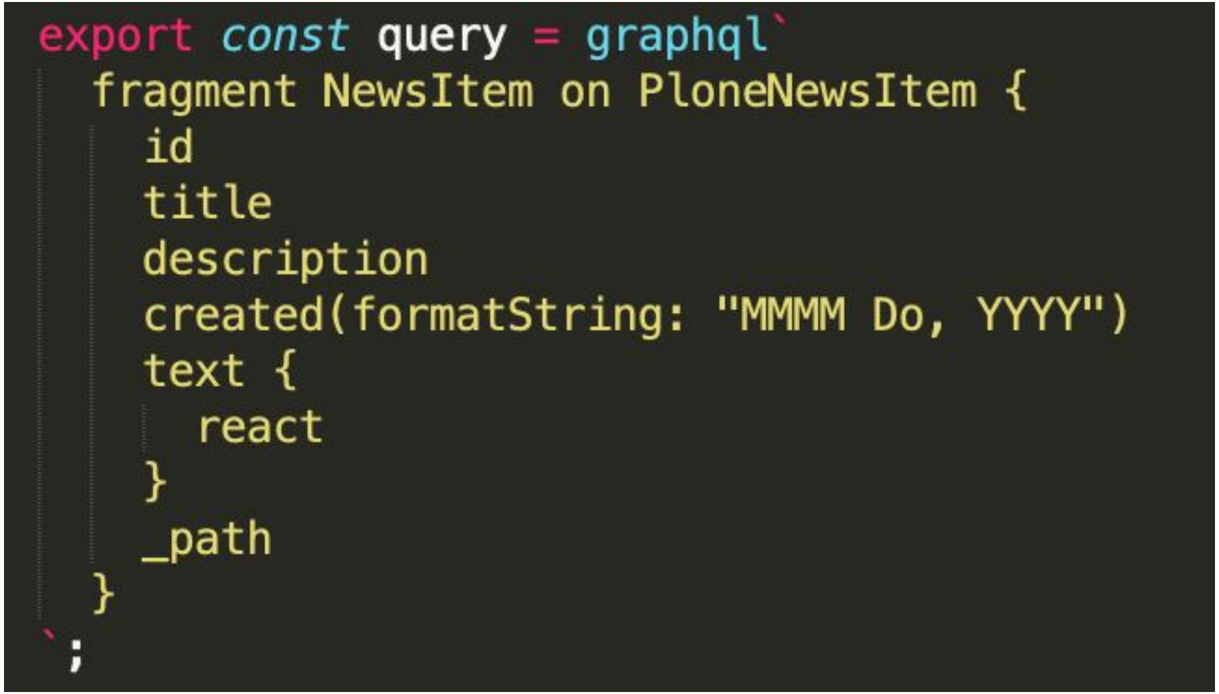


```
{
  allPloneDocument {
    edges {
      node {
        title
        description
        text {
          data
        }
        ...
      }
    }
  }
}
```

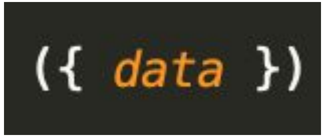


```
{
  allPloneNewsItem {
    edges {
      node {
        title
        description
        ...
      }
    }
  }
}
```

GraphQL on Templates



```
export const query = graphql`
  fragment NewsItem on PloneNewsItem {
    id
    title
    description
    created(formatString: "MMMM Do, YYYY")
    text {
      react
    }
    _path
  }
`;
```

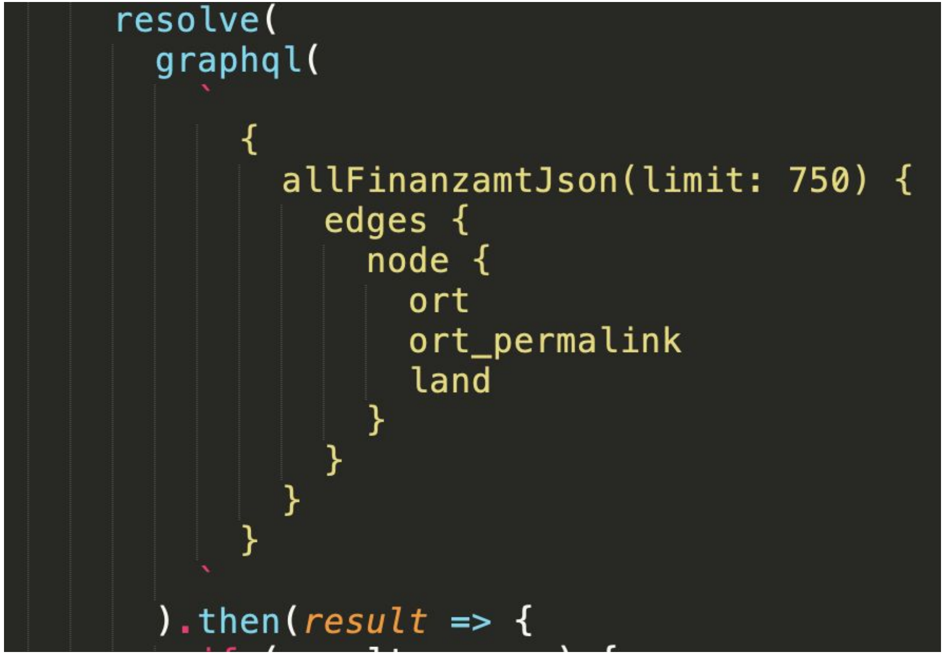


```
({ data })
```

Local Fetching

JSON Fetching with default Gatsby Plugin

gatsby-source-filesystem
gatsby-transformer-json

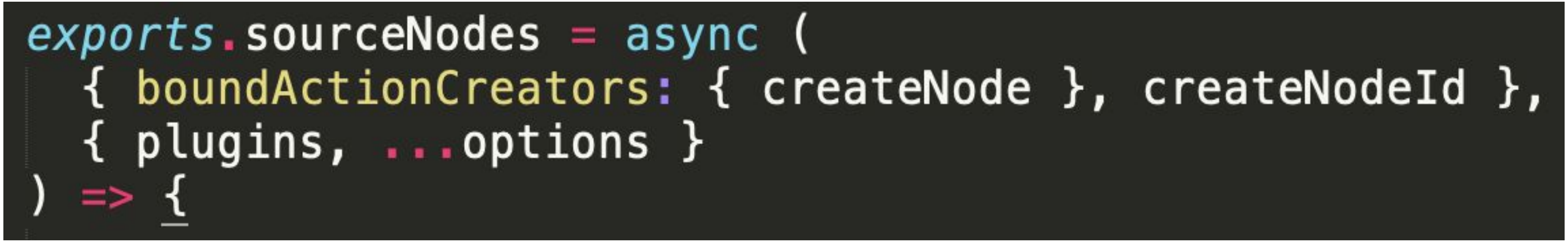


```
resolve(
  graphql(
    `
      {
        allFinanzamtJson(limit: 750) {
          edges {
            node {
              ort
              ort_permalink
              land
            }
          }
        }
      }
    `

  ).then(result => {
```

External Fetching

API Fetch with Custom Gatsby Plugins

src/gatsby-node.js



```
exports.sourceNodes = async (
  { boundActionCreators: { createNode }, createNodeId },
  { plugins, ...options }
) => {
```

createNode({ ... })

Plugins

gatsby-source-filesystem

gatsby-transformer-json

gatsby-plugin-sitemap [**sitemap**]

gatsby-plugin-feed [**feed**]

gatsby-plugin-html-attributes [**lang**]

gatsby-plugin-react-helmet [**meta tags**]

gatsby-plugin-favicon [**favicons**] (conflict on Sharp version)

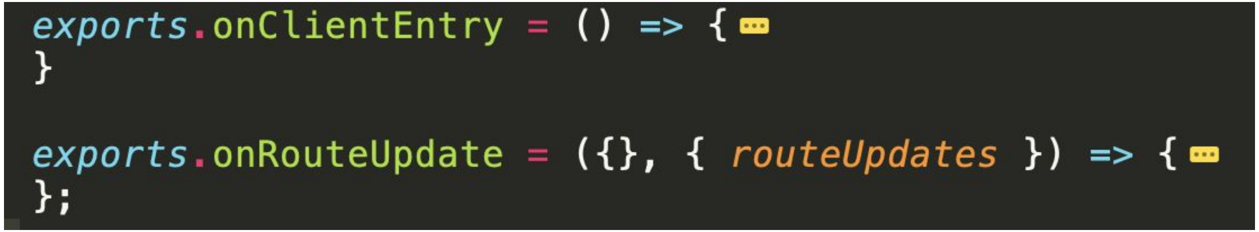
gatsby-plugin-manifest [**manifest**]

Tracking

Segment.io || Google Analytics || Google Tag Manager

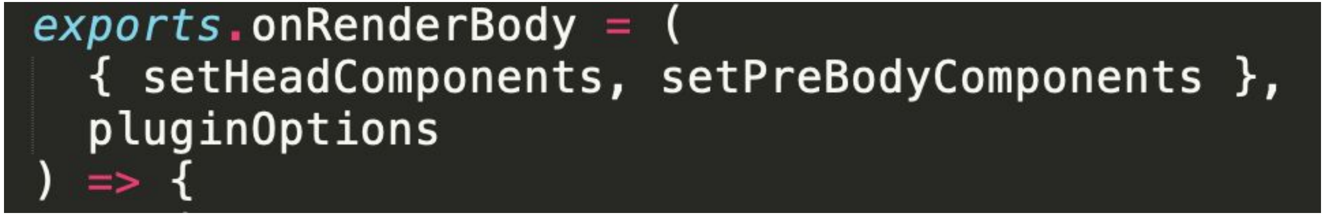
Custom Gatsby Plugin

gatsby-browser.js



```
exports.onClientEntry = () => {⋯
}

exports.onRouteUpdate = ({}, { routeUpdates }) => {⋯
};
```

gatsby-ssr.js [server side rendering]



```
exports.onRenderBody = (
  { setHeadComponents, setPreBodyComponents },
  pluginOptions
) => {
```

AB Testing

Google Optimize

Text / Text Styles / Color / Image / JS Injections
by UI - no dev involved

Custom Landing Pages
by Dev - new page build
by UI - redirect test configuration

Gatsby Building

gatsby-node.js

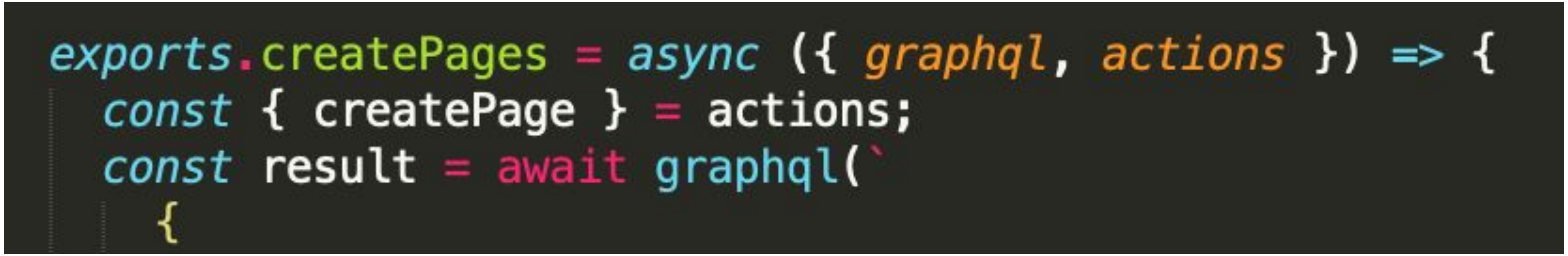
gatsby develop - React on webpack

.env.development

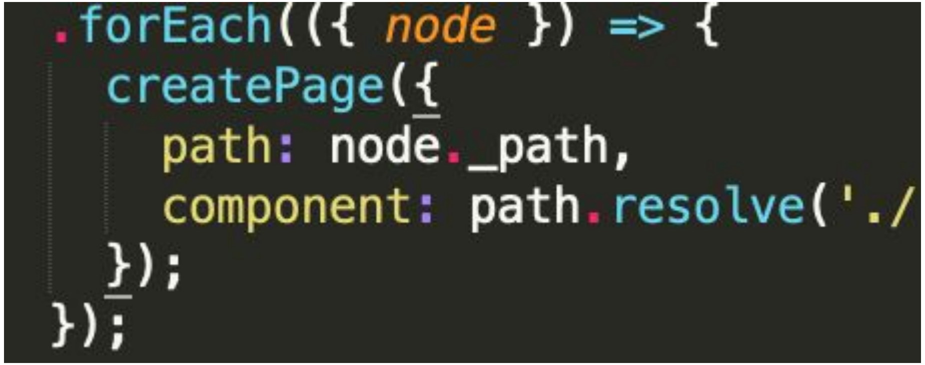
gatsby build - Static Content

.env.production

Gatsby Building



```
exports.createPages = async ({ graphql, actions }) => {
  const { createPage } = actions;
  const result = await graphql(`
    {
```



```
.forEach(({ node }) => {
  createPage({
    path: node._path,
    component: path.resolve('./
  });
});
```

Gatsby Build on CircleCI

Virtual Machine

Virtual Cores = 16 → Service Workers = 16

Memory Errors - Out of Memory

GATSBY_CPU_COUNT

GATSBY_CPU_COUNT={1}

Works for fetch, sync and query, not for building

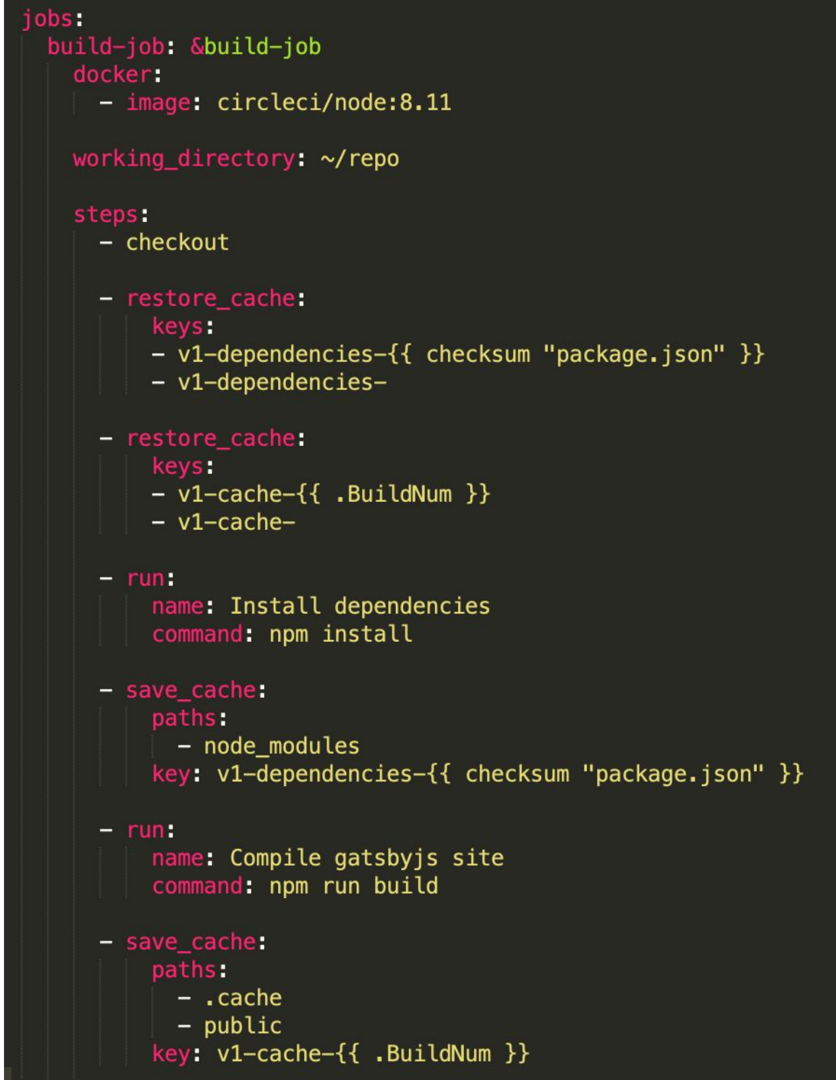
Gatsby Build on CircleCI

Temporary solution at the moment - PROXY

Proxy module used to check CPUs → physical-cpu-count

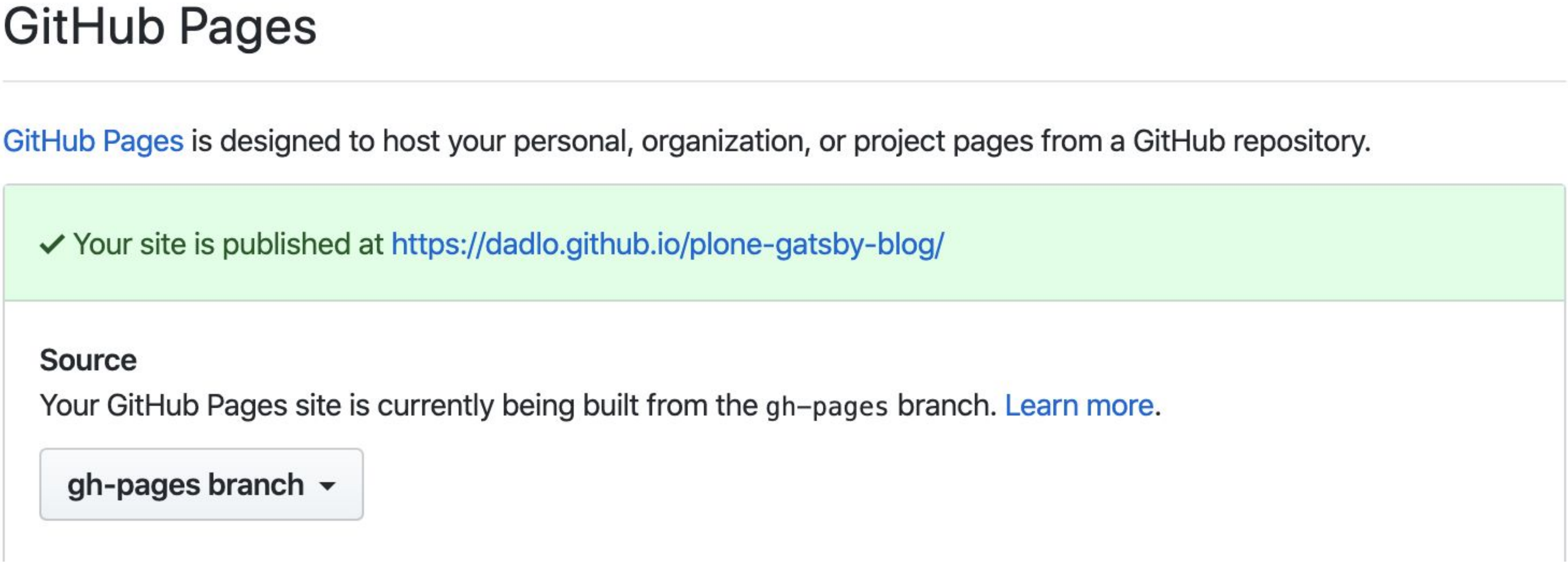
```
 node
--max_old_space_size=4096
--require ./gatsby-cpu-count.js
./node_modules/.bin/gatsby build  --prefix-paths
```

Gatsby Build on CircleCI



```
jobs:
  build-job: &build-job
    docker:
      - image: circleci/node:8.11

    working_directory: ~/repo

    steps:
      - checkout

      - restore_cache:
          keys:
          - v1-dependencies-{{ checksum "package.json" }}
          - v1-dependencies-

      - restore_cache:
          keys:
          - v1-cache-{{ .BuildNum }}
          - v1-cache-

      - run:
          name: Install dependencies
          command: npm install

      - save_cache:
          paths:
            - node_modules
          key: v1-dependencies-{{ checksum "package.json" }}

      - run:
          name: Compile gatsbyjs site
          command: npm run build

      - save_cache:
          paths:
            - .cache
            - public
          key: v1-cache-{{ .BuildNum }}
```

Push to GitHub Pages



GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

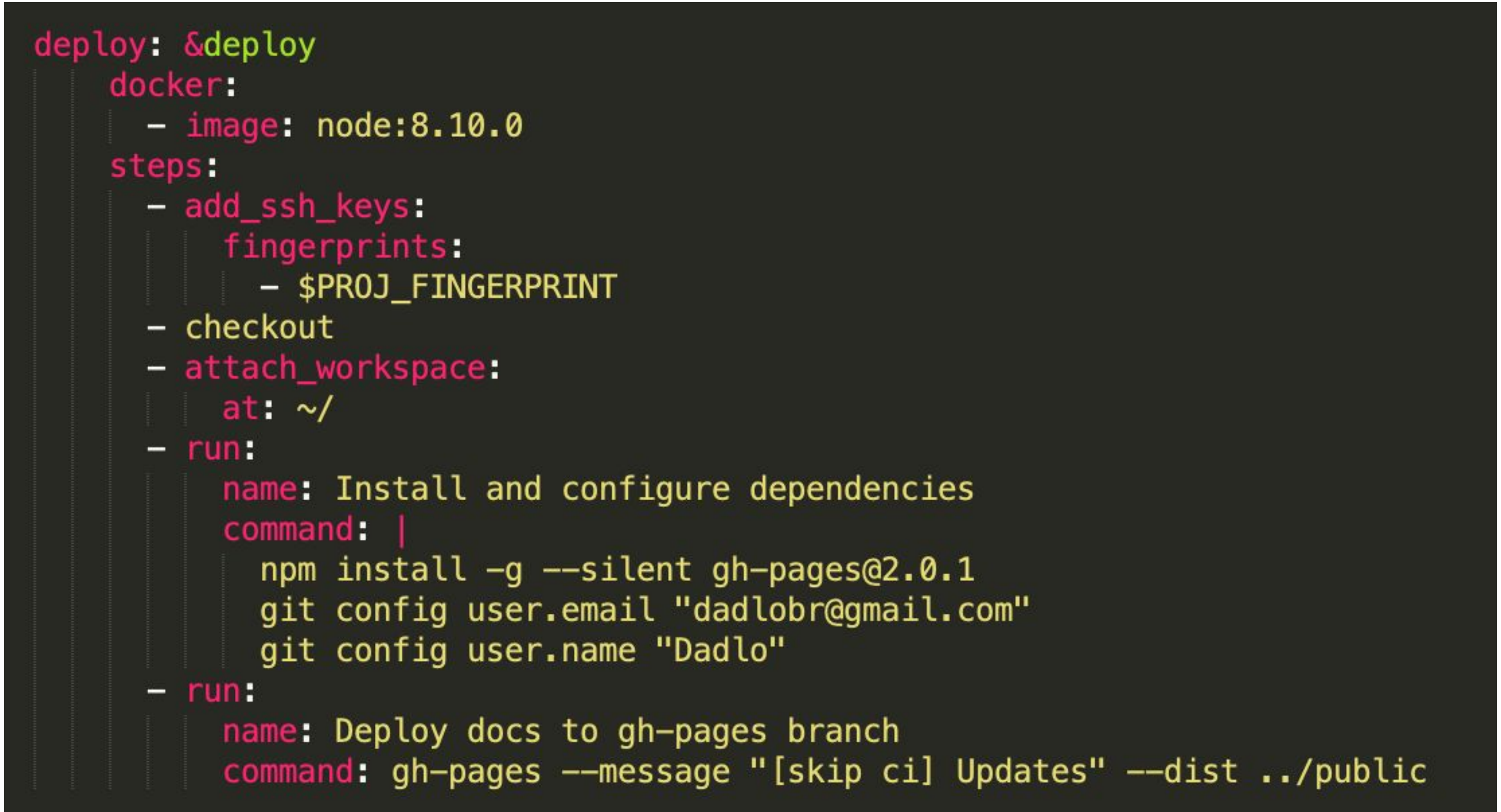
✓ Your site is published at https://dadlo.github.io/plone-gatsby-blog/

Source

Your GitHub Pages site is currently being built from the `gh-pages` branch. Learn more.

gh-pages branch ▾

Push to GitHub Pages



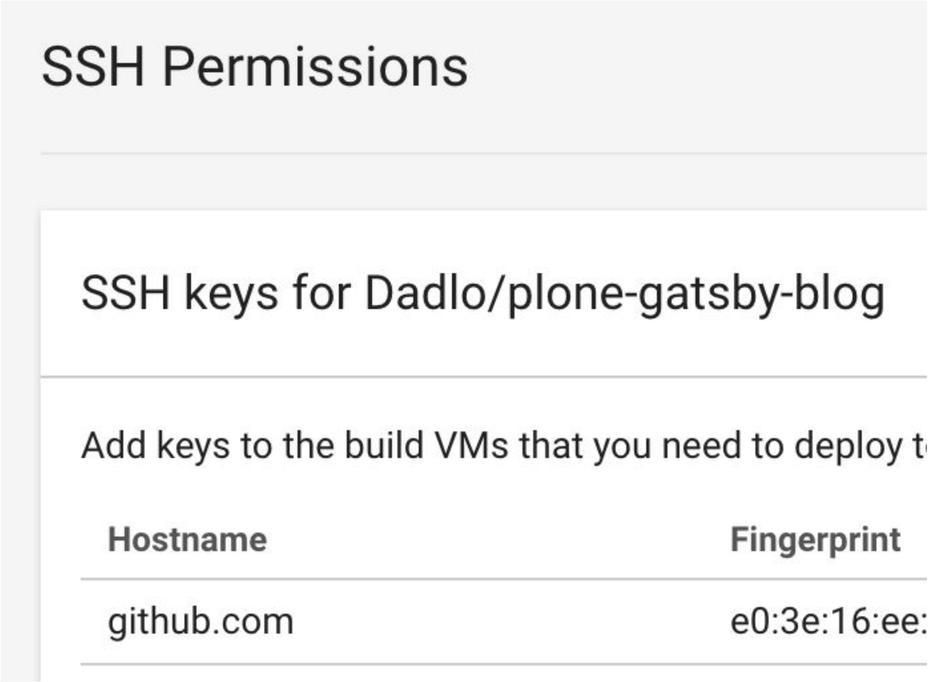
```
deploy: &deploy
    docker:
      - image: node:8.10.0
    steps:
      - add_ssh_keys:
          fingerprints:
            - $PROJ_FINGERPRINT
      - checkout
      - attach_workspace:
          at: ~/
      - run:
          name: Install and configure dependencies
          command: |
            npm install -g --silent gh-pages@2.0.1
            git config user.email "dadlobr@gmail.com"
            git config user.name "Dadlo"
      - run:
          name: Deploy docs to gh-pages branch
          command: gh-pages --message "[skip ci] Updates" --dist ../public
```

Push to GitHub Pages

```
ssh-keygen -m PEM -t rsa -C "email@email.com”
```

(no passphrase)

CircleCI



SSH Permissions

SSH keys for Dadlo/plone-gatsby-blog

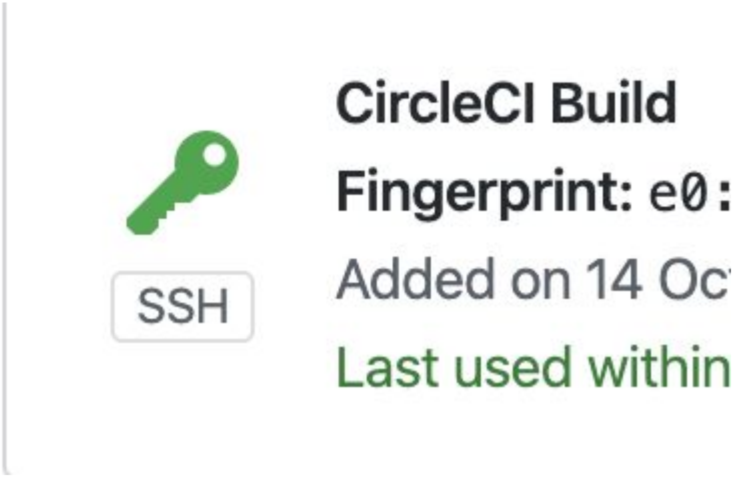
Add keys to the build VMs that you need to deploy t

Hostname	Fingerprint
github.com	e0:3e:16:ee:

Push to GitHub Pages

Github

read/write



CircleCI Build

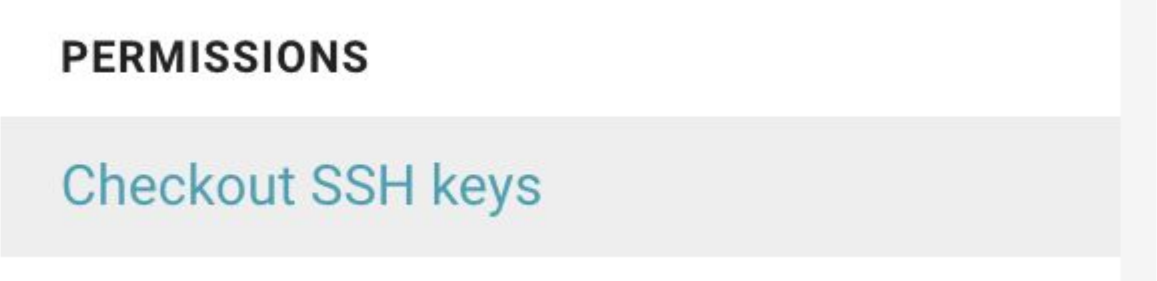
Fingerprint: e0:

Added on 14 Oc

Last used within

Push to GitHub Pages

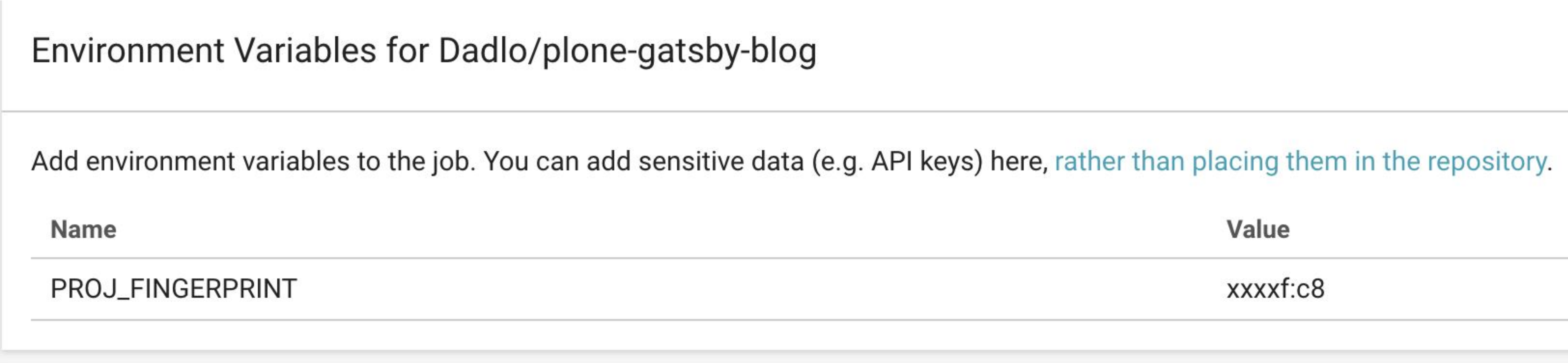
CircleCI



PERMISSIONS

Checkout SSH keys

Push to GitHub Pages



Environment Variables for Dadlo/plone-gatsby-blog

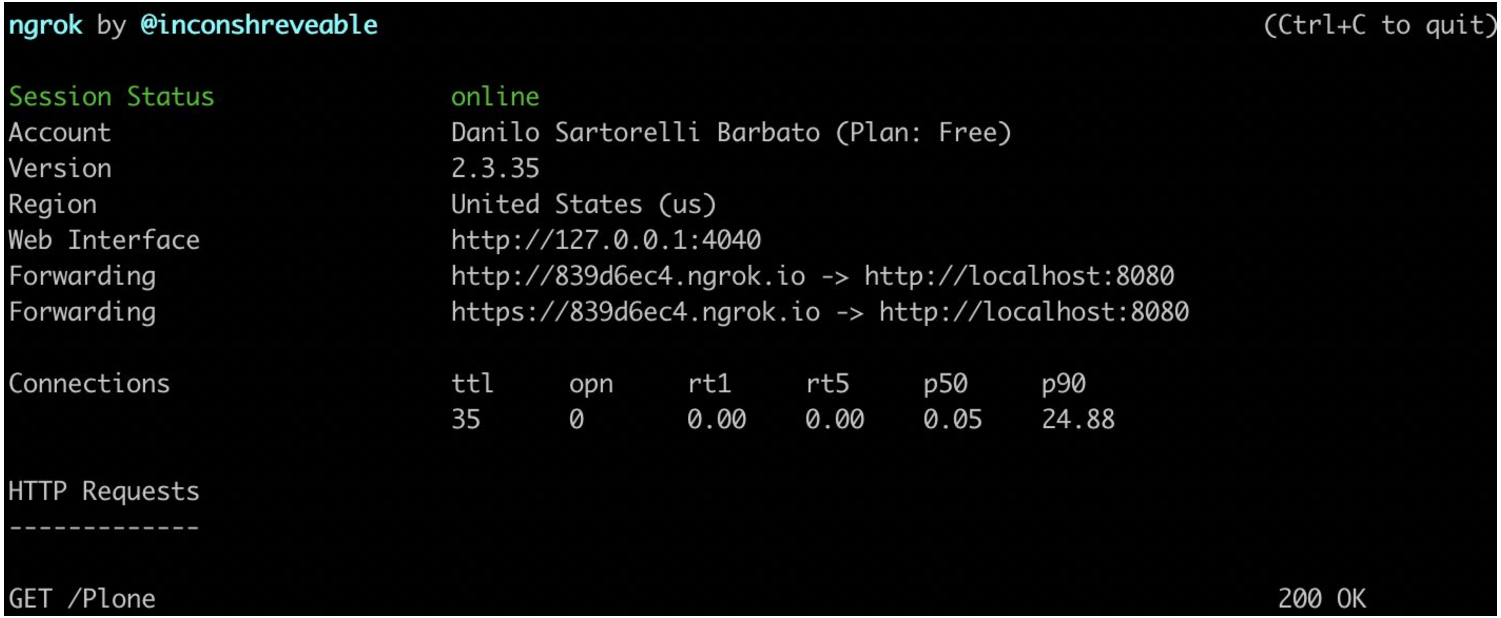
Add environment variables to the job. You can add sensitive data (e.g. API keys) here, rather than placing them in the repository.

Name	Value
PROJ_FINGERPRINT	xxxxf:c8

CircleCI

CircleCI from localhost Plone

./ngrok http 8080



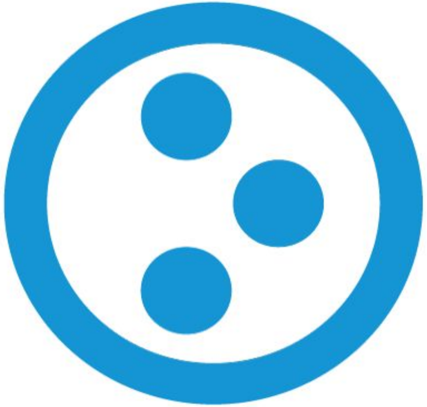
```
ngrok by @inconshreveable                                                         (Ctrl+C to quit)

Session Status                online
Account                       Danilo Sartorelli Barbato (Plan: Free)
Version                       2.3.35
Region                        United States (us)
Web Interface                 http://127.0.0.1:4040
Forwarding                    http://839d6ec4.ngrok.io -> http://localhost:8080
Forwarding                    https://839d6ec4.ngrok.io -> http://localhost:8080

Connections                   ttl     opn     rt1     rt5     p50     p90
                              35      0       0.00    0.00    0.05    24.88

HTTP Requests
-------------

GET /Plone                                                                          200 OK
```

Triggers from Plone

collective.webhook

Trigger CI based on from Plone content rules.

Quickview on Static Plone



https://github.com/Dadlo/**plone-gatsby-blog**/

https://dadlo.github.io/**plone-gatsby-blog**/

More on Gatsby + Plone

Plone Training

https://training.plone.org/5/gatsby

Thank you!

dadlobr@gmail.com

https://github.com//Dadlo/