# How to deploy GitHub pages with AWS Route 53 registered custom domain and force HTTPS



In this guide I will explain how to deploy a website to GitHub pages forcing HTTPS over a custom domain that is registered with AWS Route 53. We will set up our domain so that the www subdomain will redirect to the apex domain.

#### **Summary**

- Set up the GitHub repo
- Commit and push an index.html or use Jekyll
- Configure AWS Route 53

#### Step 1: Create GitHub repo and turn on GitHub Pages

- 1. If it does not exist yet, create a repository using the naming pattern your-github-username.github.io. Since my username is benwiz my repository is called benwiz.github.io.
- 2. Click the Settings tab and scroll down the GitHub Pages section
- 3. From the Source dropdown select  $master\ branch$
- 4. Click Save

#### **Step 2: Push source code to GitHub**

1. Clone the repo to your local machine

git clone git@github.com:your-github-username/your-github-username.github.io.git && cd your-github-username.github.io

```
echo "Hello GitHub Pages!" > index.html
```

1. Looking forward, we will need to have a file named *CNAME* that contains a single row: your custom domain. My *CNAME* file has the following contents.

```
git add . 

 && git commit -m 'Create content and CNAME record' 
 && git push
```

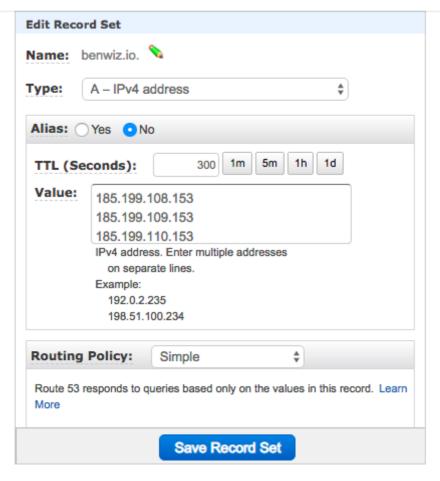
#### Step 3: Confirm that GitHub pages has been deployed

Visit <a href="http://your-github-username.github.io">http://your-github-username.github.io</a> and <a href="https://your-github-username.github.io">https://your-github-username.github.io</a>. You should see the contents of your <a href="mailto:index.html">index.html</a> file at both the unsecured and secured addresses.

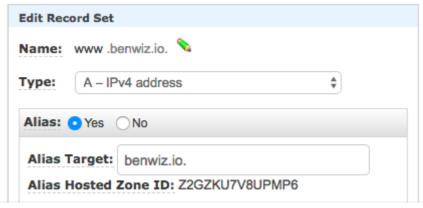
## Step 4: Configure AWS Route 53 to use your custom vanity domain

- 1. Log into the AWS console and go to the Route 53 dashboard.
- 2. Click Hosted zones
- 3. Click the domain you would like to use
- 4. Click Create Record Set
- 5. Do not enter anything into the Name field
- 6. Under the *Type* dropdown, select *A IPv4* addresses
- 7. The *Alias* toggle should be set to *No*
- 8. Enter the following four IP addresses into the *value* text area. Then click *Save Record Set*.

```
185.199.108.153
185.199.109.153
185.199.110.153
185.199.111.153
```



- 1. Click Create Record Set, again
- 2. Into the *Name* field, enter www
- 3. Under the *Type* dropdown, select *A IPv4* addresses, again
- 4. The *Alias* toggle should be set to *Yes*, unlike before
- 5. In the *Alias Target* field, select the apex domain we previously set up. For me this is *benwiz.io*.
- 6. Click Save Record Set, again



To make Medium work, we log user data. By using Medium, you agree to our Privacy Policy, including cookie policy.

- S3 website endpoint: s3-website.us-east-2.amazonaws.com
- Resource record set in this hosted zone: www.example.com
- VPC endpoint: example.us-east-2.vpce.amazonaws.com
- API Gateway custom regional API: d-abcde12345.execute-api.us-west-2.amazonaws.com

Learn More

| Routing Policy: Simple | \$

### Step 5: Configure GitHub to serve over your custom domain

- 1. Return to your GitHub repository's settings tab
- 2. Scroll down to the GitHub Pages section
- 3. In the Custom domain field enter your custom domain: your-custom-domain.com
- 4. Click Save
- 5. Check *Enforce HTTPS*

### Step 6: Confirm that your page is accessible at your custom domain

Visit https://your-custom-domain.com. You should see the contents of your index.html.

- 1. Visit <a href="https://www.your-custom-domain.com">https://www.your-custom-domain.com</a>. You should be redirected to <a href="https://your-custom-domain.com">https://your-custom-domain.com</a>.
- 2. Visit <a href="http://your-custom-domain.com">https://your-custom-domain.com</a>. You should be redirected to <a href="https://your-custom-domain.com">https://your-custom-domain.com</a>.
- 3. Visit <a href="http://www.your-custom-domain.com">http://www.your-custom-domain.com</a>. You should be redirected to <a href="https://your-custom-domain.com">https://your-custom-domain.com</a>.

• • •

Medium

About Help Legal