

# Creating a Website

From soup to... soup

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# Why a website?

- Communication
  - more people have phones than computers
- Lasting; take it with you when you go
- Professionalism
  - gReEnDaYFANxx@yahoo.com

# Setting up a website

# Purchase a domain

- \$1+ per year (usually \$5-\$20 per year)
  - <https://www.namecheap.com/>
  - <https://www.squarespace.com/>
  - <https://www.godaddy.com/>

# Domain Name System (DNS)

- Under the hood, websites are named with gibberish, also known as an IP address (“Internet Protocol”)
  - IPv4: 192.168.1.1
  - IPv6: 2400:cb00:2048:1::c629:d7a2
- DNS translates this to something readable
  - myawesomefilssite.com

# DNS Records

Type ▲	Name	Content
A	obrien.page	185.199.111.153
A	obrien.page	185.199.110.153
A	obrien.page	185.199.109.153
A	obrien.page	185.199.108.153
AAAA	obrien.page	2606:50c0:8003::153
AAAA	obrien.page	2606:50c0:8002::153
AAAA	obrien.page	2606:50c0:8001::153
AAAA	obrien.page	2606:50c0:8000::153
CNAME	_domainconnect	connect.domains.google.com
CNAME	matos	mhpob.github.io
CNAME	otndo	mhpob.github.io
CNAME	rvdat	mhpob.github.io
CNAME	www	mhpob.github.io
MX	obrien.page	route3.mx.cloudflare.net
MX	obrien.page	route2.mx.cloudflare.net

# DNS Records

Type	Name	Content
A	awesomesite.com	123.456.7.8
AAAA	awesomesite.com	1234:abc5:1234::abc
CNAME	subdomain (www)	wheremysiteishosted
TXT	web_verification	Yes, this is actually me!



# Nameservers

Tell the world what server holds the other records.

Type	Value
NS	ns.exemplens.com

- I use Cloudflare as it has a good bit of protections and services for free.
- **Including email forwarding!!**
- Involves changing the nameserver listed with your provider to Cloudflare and verifying

# Verification

- **Google Sites**: TXT and (sometimes) CNAME
- **Canva**: A and TXT
- **GitHub**: A and AAAA
- **WordPress.com**: A and CNAME

# What is a website?

- A folder with files in it
- Three challenges:
  - Creating the stuff that goes in the folders (website development)
  - Making sure other people can see the stuff (web hosting/content management system)
  - ~~Making sure other people can't mess with the stuff (cyber security)~~

# Pick a web hosting service

- Yourself
  - Good luck. (Security)
- Someone else – “A server somewhere in Arlington”
  - Digital Ocean
  - Cloudflare
  - Amazon

# Pick a web hosting service and design

- WordPress.com
- Squarespace
- Wix

# Email


mikeob9@gmail.com 🙄

Maybe... this could be more professional.

Assuming you're using GMail and Cloudflare:

# Set up Cloudflare

Adjust DNS settings as noted above to switch website to Cloudflare

CLOUDFLARE

← obrien.page ▶

Overview

Analytics & Logs

DNS

**Records**

Settings

Email

SSL/TLS

Security

Access

Speed

Caching

Workers Routes

Rules

DNS

## Records

Manage DNS records of your domain.

[DNS records documentation](#)

Recommended steps to complete zone set-up

✓ [Use wizard to add a DMARC policy](#) and choos

DNS management for obrien.page

Review, add, and edit DNS records. Edits will go once saved.

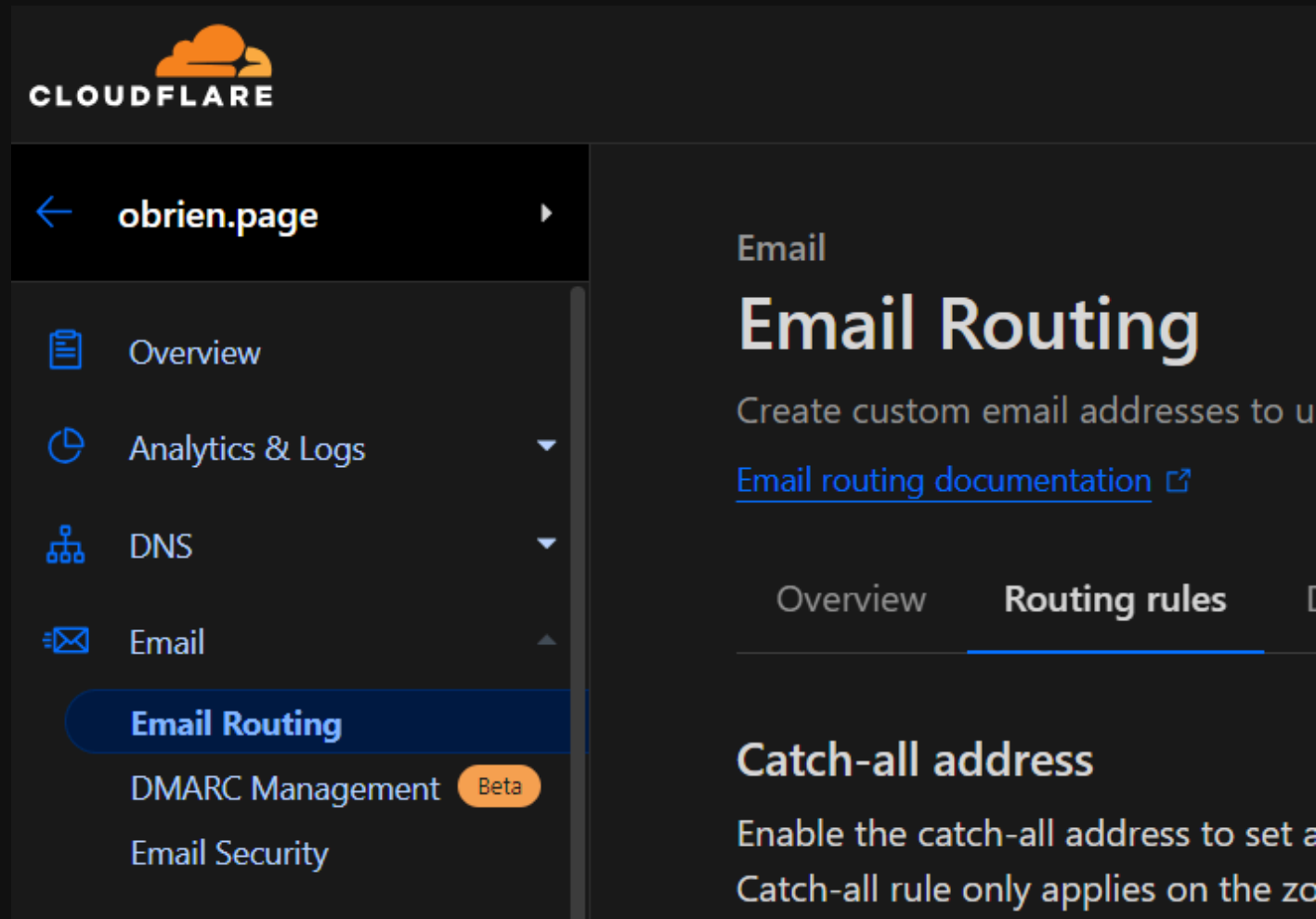
Search DNS Records

Add filter

Type ▲	Name
A	obrien.page

# Set up email forwarding

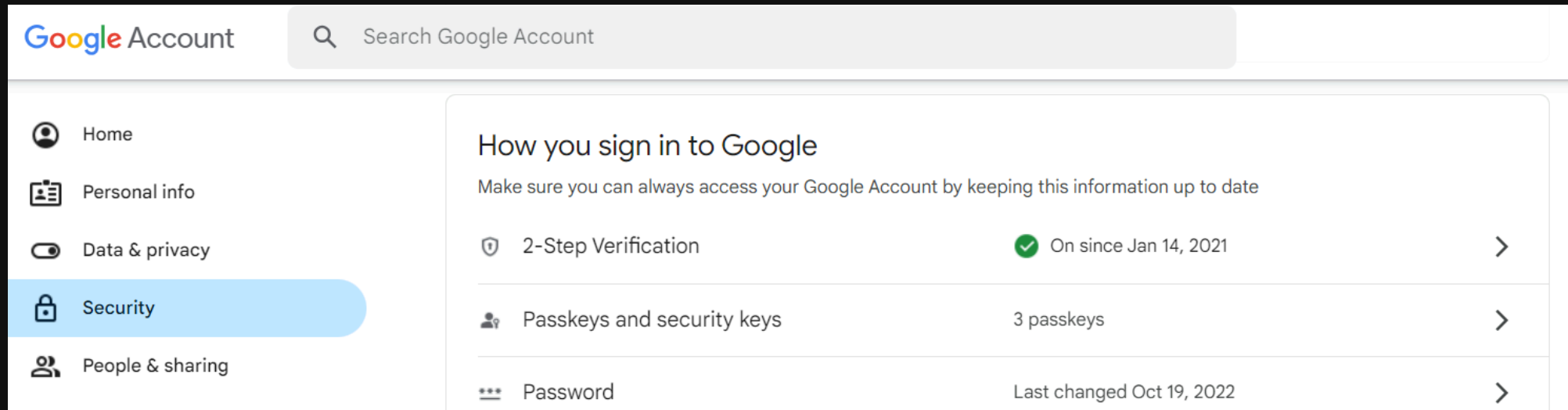
Email > Email Routing > Routing Rules > Create address









# Make Google key

Manage Google Account > Security > Two-step verification



The screenshot shows the Google Account management interface. On the left is a sidebar with navigation links: Home, Personal info, Data & privacy, Security (highlighted in blue), and People & sharing. The main content area is titled 'How you sign in to Google' with a subtitle 'Make sure you can always access your Google Account by keeping this information up to date'. Below this is a table listing security settings:

How you sign in to Google		
Make sure you can always access your Google Account by keeping this information up to date		
 2-Step Verification	 On since Jan 14, 2021	<a href="#">&gt;</a>
 Passkeys and security keys	3 passkeys	<a href="#">&gt;</a>
 Password	Last changed Oct 19, 2022	<a href="#">&gt;</a>

# Make Google key

## App passwords

### App passwords

App Passwords aren't recommended and are unnecessary in most cases. To help keep your account secure, use "Sign in with Google" to connect apps to your Google Account.

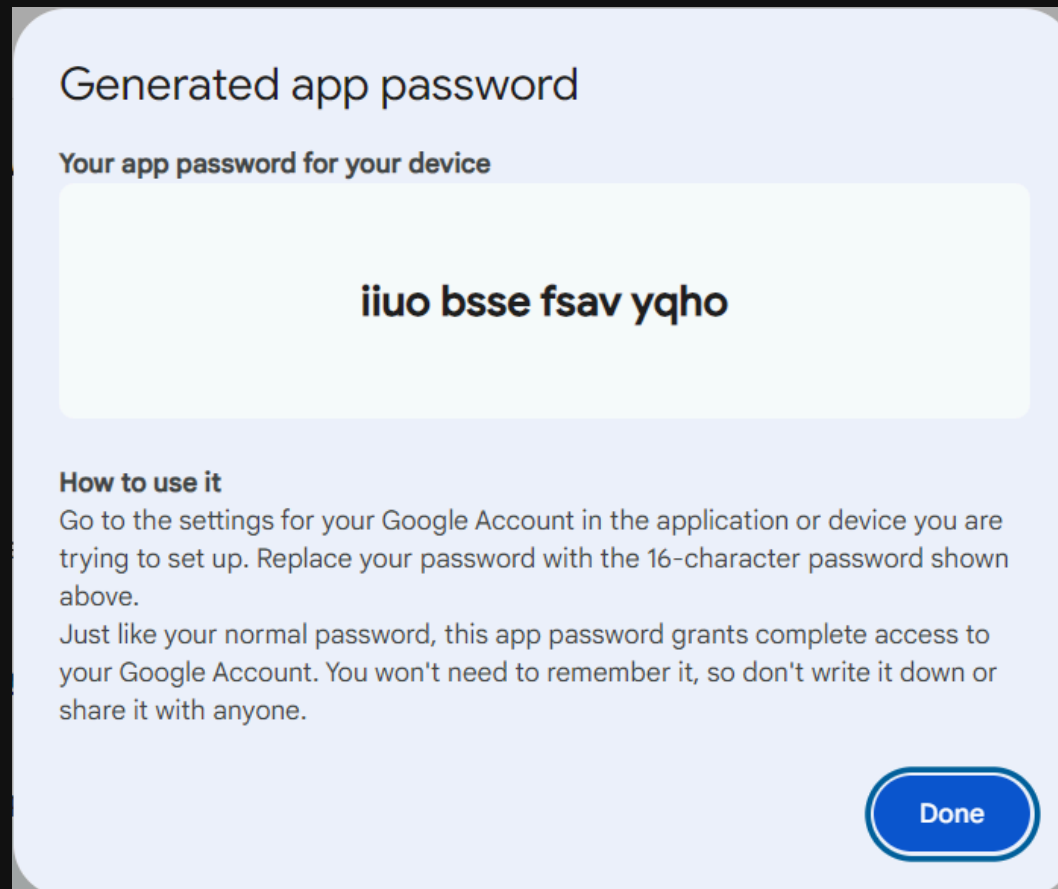
#### App passwords

3 passwords



# Make Google key

Create a new app name, it will provide a password. Copy this; you'll never see it again!



# Set up forwarding

Accounts > Send mail as > Add another email address

## Settings

General   Labels   **Inbox**   Accounts   Filters and Blocked Addresses   Forwarding and

Chat and Meet   Advanced   Offline   Themes

**Send mail as:**   Mike O'Brien <obrien@umces.edu>

(Use University of Maryland  
Center for Environmental  
Science Mail to send from your  
other email addresses)

[Add another email address](#)

[Learn more](#)

# Set up forwarding

Put your new forwarding email in the “Email address” box.

## Add another email address you own

**Enter information about your other email address.**

(your name and email address will be shown on mail you send)

Name:

Email address:



Treat as an alias. [Learn more](#)

[Specify a different "reply-to" address](#) (optional)

Cancel

**Next Step »**

# Set up forwarding

Paste the app key made above into the "Password" box.

## Add another email address you own

### Send mail through your SMTP server

Configure your mail to be sent through superprofessional.com SMTP servers [Learn more](#)

SMTP Server:  Port:

Username:

Password:

☒ Secured connection using [TLS](#) (recommended)

☐ Secured connection using [SSL](#)

# Time check

Soup to nuts?