

Static Web-hosting with AWS S3¹

1. Register a domain with Amazon Route 53.²
2. Create a root domain bucket and subdomain bucket in the Amazon S3 Console
 - a. Create a root domain bucket named *site.com* with default settings
 - b. Create a subdomain bucket named *www.site.com* with default settings
3. Configure root domain bucket for web hosting
 - a. Configure the root domain as follows under **Properties** -> **Static webhosting** [Figure 1].
 - b. Configure the subdomain bucket to **Redirect requests from Object** under **Properties** -> **Static webhosting** with the root domain address.
 - c. Upload *index.html* and *error.html* along with any other website content to the root domain bucket.
 - d. Clear all **block public access** permissions in the root bucket.
 - e. Attach the bucket policy under **Permissions** -> **Bucket Policy** [Figure 2].
4. Create a new alias record in the Amazon Route 53 Console under **Hosted Zones** -> *site.com* with the settings described [Figure 3].

Note: The website should now be public. Test your connection by navigating to the website endpoint under Properties -> Static Webhosting

¹Instructions for custom domain hosting can be found here:
[https://docs.aws.amazon.com/AmazonS3/latest/dev/website-hosting-custom-domain-walkthrough.htm](https://docs.aws.amazon.com/AmazonS3/latest/dev/website-hosting-custom-domain-walkthrough.html)
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² To register a domain follow this procedure:
<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/domain-register.html>. Domain names are subject to AWS pricing and may take a few days to register.

Edit static website hosting

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

- ☐ Disable
- ☒ Enable

Hosting type

- ☒ Host a static website
Use the bucket endpoint as the web address. [Learn more](#)
- ☐ Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

i For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document

Specify the home or default page of the website.

index.html

Error document

This is returned when an error occurs.

error.html

Redirection rules – optional

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

Figure 1. Route Domain Bucket Static Web hosting Settings

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "PublicReadGetObject",
      "Effect": "Allow",
      "Principal": "*",
      "Action": [
        "s3:GetObject"
      ],
      "Resource": [
        "arn:aws:s3:::example.com/*"
      ]
    }
  ]
}
```

Figure 2. Bucket Policy for Route Domain Bucket

Quick create record

Info

Switch to wizard

Add another record

▼ Record 1

Delete

Routing policy

Info

Simple routing

Record name

Info

www

.amfrazier.com

Alias

☒

Valid characters: a-z, 0-9, ! " # \$ % & ' () * + , - / : ; < = > ? @ [\] ^ _ ` { | } . ~

Record type

Info

A – Routes traffic to an IPv4 address and so...

Route traffic to

Info

Alias to S3 website endpoint

US East (Ohio) [us-east-2]

s3-website.us-east-2.amazonaws.com

×

Evaluate target health

☐ No

Cancel

Create records

Figure 3. Alias Record for www.site.com

Cognito User Authentication³

Note: Settings not listed may remain as default.

1. Create a userpool in the AWS Cognito management console. Review default settings and apply the following [Figure 1].
2. Create an app client for the Cognito userpool with default settings.
3. Under app client settings, enter the following options [Figure 2]. **Disable client secret generation.**
4. Under **App integration**, register an Amazon Cognito domain for user authentication.
5. Create a *config.js* file with the **userPoolId**, **region**, and **clientId** attributes as follows [Figure 3].
6. Upload the relevant login and registration HTML files along with the Javascript files included. The registration and login pages should now be functional.

You can choose to have users sign in with an email address, phone number, username or preferred username plus their password. [Learn more.](#)

☐ **Username** - Users can use a username and optionally multiple alternatives to sign up and sign in.

- ☐ Also allow sign in with verified email address
- ☐ Also allow sign in with verified phone number
- ☐ Also allow sign in with preferred username (a username that your users can change)

☒ **Email address or phone number** - Users can use an email address or phone number as their "username" to sign up and sign in.

- ☒ Allow email addresses
- ☐ Allow phone numbers
- ☐ Allow both email addresses and phone numbers (users can choose one)

You can choose to enable case insensitivity on the username input for the selected sign-in option. For example, when this option is selected, the users can sign in using either "username" or "Username".

☒ (Recommended) Enable case insensitivity for username input

Which standard attributes do you want to require?

All of the standard attributes can be used for user profiles, but the attributes you select will be required for sign up. You will not be able to change these requirements after the pool is created. If you select an attribute to be an alias, users will be able to sign-in using that value or their username. [Learn more about attributes.](#)

Required	Attribute	Required	Attribute
<input type="checkbox"/>	address	<input type="checkbox"/>	nickname
<input type="checkbox"/>	birthdate	<input type="checkbox"/>	phone number
<input checked="" type="checkbox"/>	email	<input type="checkbox"/>	picture
<input type="checkbox"/>	family name	<input type="checkbox"/>	preferred username
<input type="checkbox"/>	gender	<input type="checkbox"/>	profile
<input type="checkbox"/>	given name	<input type="checkbox"/>	zoneinfo
<input type="checkbox"/>	locale	<input type="checkbox"/>	updated at
<input type="checkbox"/>	middle name	<input type="checkbox"/>	website
<input checked="" type="checkbox"/>	name		

Do you want to customize your email verification messages?

You can choose to send a code or a clickable link and customize the message to verify email addresses. [Learn more about email verification.](#)

Verification type

☐ Code ☒ Link

Email subject

Your verification link

Email message

Please click the link below to verify your email address. (##Verify Email##)

You can customize the message above, but it must include the "(#####)" placeholder, which will be replaced with the link.

Figure 1. Cognito User Pool Settings

³ Adapted from the following tutorial: <https://www.youtube.com/watch?v=pDMkL2cObC0>

Enabled Identity Providers ☒ Select all

☒ Cognito User Pool

Sign in and sign out URLs

Enter your callback URLs below that you will include in your sign in and sign out requests. Each field can contain multiple URLs by entering a comma after each URL.

Callback URL(s)

Sign out URL(s)

OAuth 2.0

Select the OAuth flows and scopes enabled for this app. [Learn more about flows and scopes.](#)

Allowed OAuth Flows

☒ Authorization code grant ☐ Implicit grant ☐ Client credentials

Allowed OAuth Scopes

☒ phone ☒ email ☒ openid ☒ aws.cognito.signin.user.admin ☒ profile

Figure 2. Cognito App Client Settings

```
window._config = {  
  cognito: {  
    userPoolId: 'POOLID',  
    region: 'REGION',  
    clientId: 'CLIENTID'  
  }  
}
```

Figure 3. Config.js File