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ISAT 340
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Building and Hosting My Own Website on AWS

My website: stubble-solutions.com

My index.html file can be found in my GitHub repo: <https://github.com/masterjedirahym/website>

Hours it took to learn the structure of HTML, configure, organize, and recode my webpage: Approx. **12**

Hours it took to figure out and get my website up on AWS: Approx. **8**

Total Points: **20**

Links for **AWS**:

<https://docs.aws.amazon.com/AmazonS3/latest/dev/website-hosting-custom-domain-walkthrough.html>

<https://medium.freecodecamp.org/how-to-host-a-website-on-s3-without-getting-lost-in-the-sea-e2b82aa6cd38>

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/troubleshooting-s3-bucket-website-hosting.html>

Links I used for **Learning HTML**:

https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/HTML_basics

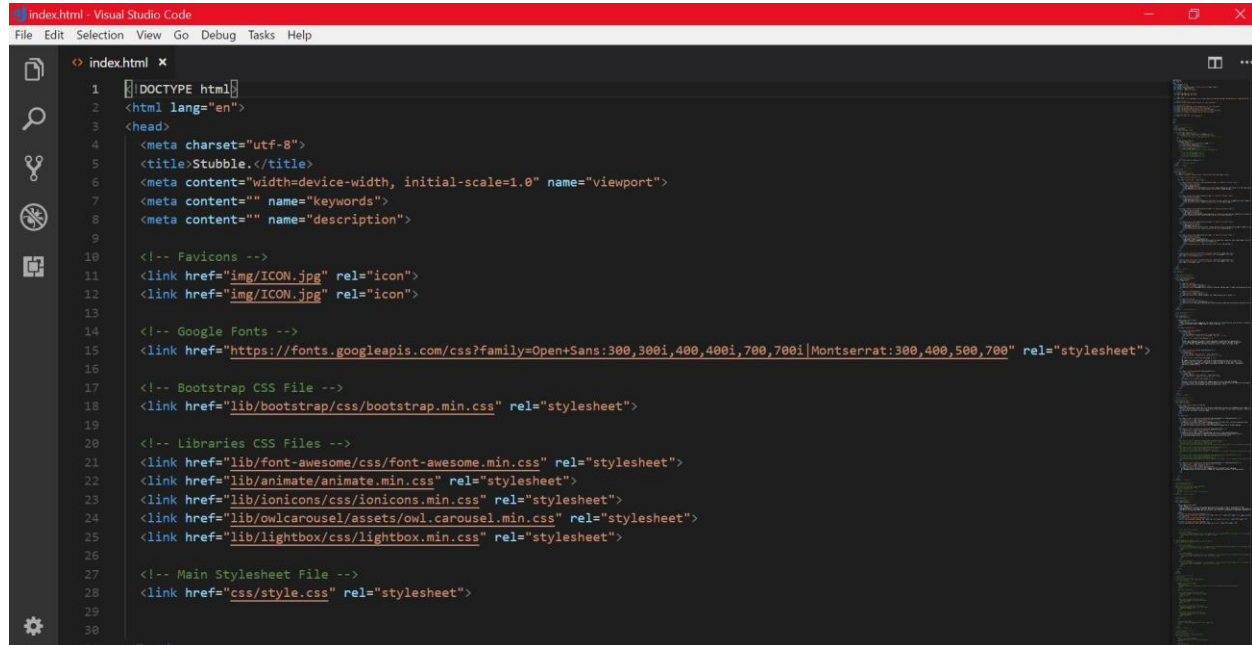
https://www.w3schools.com/Html/html_basic.asp

I began this process with the inspiration and need to have a face to my technical staffing company called Stubble. As a beginner, I began researching ways to design and develop professional static webpages. I stumbled across a website called themewagon.com, which specializes in providing free HTML/CSS bootstrap templates that anyone can use. After finding a suitable one that fit my needs, I began editing what was in place and adding my own flavor to the organization and material of the page. I used Visual Studio Code to make all of my code changes and stay organized. It's a really neat and clean tool. I used some basic tutorials in order to understand the structure of what was written and write some of my own code as well.

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```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8">
5   <title>Stubble.</title>
6   <meta content="width=device-width, initial-scale=1.0" name="viewport">
7   <meta content="" name="keywords">
8   <meta content="" name="description">
9
10  <!-- Favicons -->
11  <link href="img/ICON.jpg" rel="icon">
12  <link href="img/ICON.jpg" rel="icon">
13
14  <!-- Google Fonts -->
15  <link href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,700,700i|Montserrat:300,400,500,700" rel="stylesheet">
16
17  <!-- Bootstrap CSS File -->
18  <link href="lib/bootstrap/css/bootstrap.min.css" rel="stylesheet">
19
20  <!-- Libraries CSS Files -->
21  <link href="lib/font-awesome/css/font-awesome.min.css" rel="stylesheet">
22  <link href="lib/animate/animate.min.css" rel="stylesheet">
23  <link href="lib/ionicons/css/ionicons.min.css" rel="stylesheet">
24  <link href="lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
25  <link href="lib/lightbox/css/lightbox.min.css" rel="stylesheet">
26
27  <!-- Main Stylesheet File -->
28  <link href="css/style.css" rel="stylesheet">
29
30
31 </head>
```

Not to give too much away about my Amazon account, some screenshots of what the management console looks like for my S3 bucket can be seen below. I purchased my domain for 2 years (\$24.00), and had to set up my own **hosted zone** so that all traffic that attempts to access my page actually gets there successfully. The trick to hosting a website in an S3 bucket is that it has to be static. This service allows you to host for mere cents per month. In my case, this is around 52 cents per month. The cool thing about AWS is that they offer \$100 worth of promotional credit to students who sign up for an AWS Educate account. I did that, and I did have to pay for my domain out of pocket, but Amazon is basically paying to host my website on their own platform, which is pretty cool.

Here, you can see the promotional credit:

Expiration Date	Credit Name	Amount Used	Amount Remaining	Applicable Products
2019-12-31	EDU_ENG_FY2018_IC-Q3_1_100USD	\$1.00	\$99.00	See complete list

This image shows how much I have been billed and how much I am projected to have to pay for the month of November.

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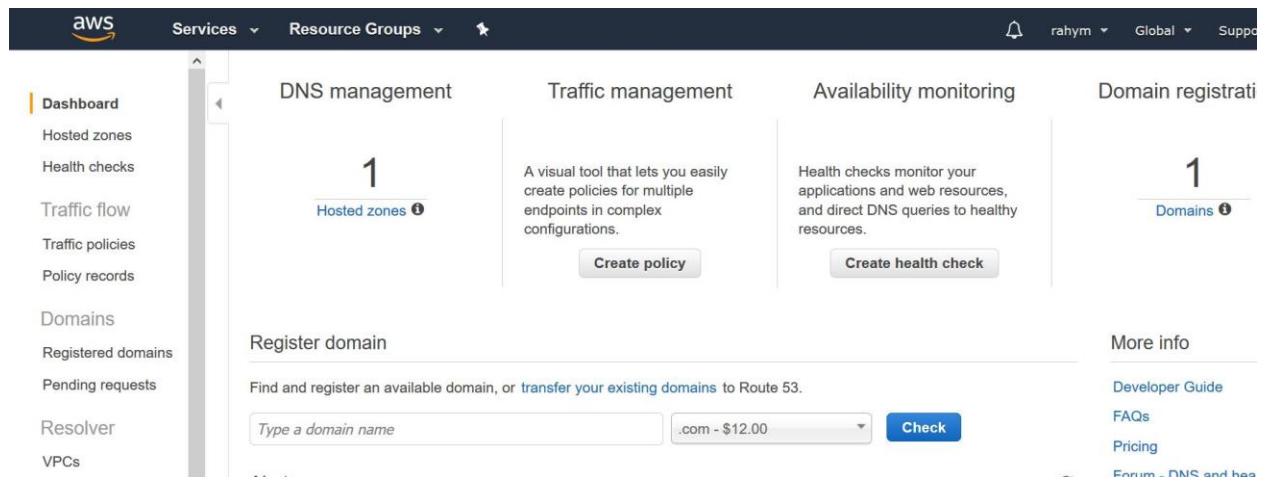
Welcome to the AWS Billing & Cost Management console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for November 2018

\$0.00



The following 3 images show the DNS configuration section of the console. I had to set up my own hosted zone, which can be seen in the second image. The third image shows the URL entries that would be routed to the URL I chose, which was stubble-solutions.com.



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<input type="text" value="Search all fields"/>	<input type="button" value="X"/>	<input type="text" value="All Types"/>	<input type="button" value="K"/>	<input type="button" value="D"/>
Domain Name	Type	Record Set Count	Comment	
<input type="radio"/> stubble-solutions.com.	Public	4	HostedZone created by Route53 Registrar	

<input type="checkbox"/>	Name	Type	Value
<input type="checkbox"/>	stubble-solutions.com.	A	ALIAS s3-website-us-east-1.amazo
<input type="checkbox"/>	stubble-solutions.com.	NS	ns-607.awsdns-11.net. ns-1646.awsdns-13.co.uk. ns-1511.awsdns-60.org. ns-83.awsdns-10.com.
<input type="checkbox"/>	stubble-solutions.com.	SOA	ns-1646.awsdns-13.co.uk. awsdns-
<input type="checkbox"/>	www.stubble-solutions.com.	A	ALIAS s3-website-us-east-1.amazo

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In the following 4 images, you can see the contents and configuration of my S3 bucket, which is a storage option that AWS offers. Due to the fact that I am simply hosting a static webpage, it is both cost effective and sensible to place it in the bucket and open the permissions for public access.

[Amazon S3](#) > [stubble-solutions.com](#)

Overview

Properties

PermissionsPublic

Public access settings

Access Control List

Bucket PolicyPublic

CORS configuration

Public access settings for this bucket

Use the Amazon S3 block public access settings to enforce that buckets don't allow public access to data. You can the account level. [Learn more](#)

Manage public access control lists (ACLs)	Manage public bucket policies
Block new public ACLs and uploading public objects <i>(Recommended)</i> False	Block new public bucket policies <i>(Recommended)</i> False
Remove public access granted through public ACLs <i>(Recommended)</i> False	Block public and cross-account access if bucket has public policies <i>(Recommended)</i> False

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

☐ Disabled

Server access logging

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

[Learn more](#)

☐ Disabled

Static website hosting

Host a static website, which does not require server-side technologies.

[Learn more](#)

☒ Bucket hosting

Object-level logging

Record object-level API activity using the CloudTrail data events feature (additional cost).

Default encryption

Automatically encrypt objects when stored in Amazon S3

[Learn more](#)

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Amazon S3 > stubble-solutions.com

Overview Properties Permissions **Public** Management

Q Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US East (N. Virginia) ↻

Viewing 1 to 8

<input type="checkbox"/>	Name ↑	Last modified ↑	Size ↑	Storage class ↑
<input type="checkbox"/>	contactform	--	--	--
<input type="checkbox"/>	css	--	--	--
<input type="checkbox"/>	img	--	--	--
<input type="checkbox"/>	img	--	--	--
<input type="checkbox"/>	js	--	--	--
<input type="checkbox"/>	lib	--	--	--
<input type="checkbox"/>	.gitattributes	Sep 27, 2018 6:42:59 PM GMT-0400	66.0 B	Standard
<input type="checkbox"/>	Readme.txt	Sep 27, 2018 6:43:00 PM GMT-0400	193.0 B	Standard
<input type="checkbox"/>	index.html	Sep 30, 2018 11:12:58 PM GMT-0400	38.6 KB	Standard

In total, the experience of building and hosting my own website for my up and coming business was quite enjoyable. It was difficult at first, but after figuring out what I had to do to make things work, all it took was some time and patience. It's commonplace to access the internet and go about your business as usual, but going through the process of building something successful that everyone can see is rewarding in it's own indescribable way.