**HOSTING A STATIC WEBSITE USING AMAZON S3 BUCKET**

Organization “Z” have decided to host their static website on Amazon, and I have been asked to carry out the process. The developer has given me the source code for the website.

**Organization Z wants an HTTP website.**

Here is how I hosted Organization Z’s static website on Amazon

First, I had to create a S3 bucket for the souce code.

Graphical user interface, website

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

***Because this was going to be a public facing website and the public will be accessing it, I enabled ACL and disabled the option to block public access to the bucket.***

Graphical user interface, text, application, email

Description automatically generated

Text, timeline

Description automatically generated

***Sometimes malicious actors delete or modify an organization’s source code and thereby making the website unavailable or defaced, to avoid losing the source code for this project I enabled bucket versioning. In case the source code was deleted or modified either intentionally or mistakenly, we can recover the previously uploaded data.***

Graphical user interface, text, application, email

Description automatically generated

***Next, encryption was enabled, and the bucket was created.***

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

***After creating the bucket, the next thing I did was to upload the source code I got from the developers****.*

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated with medium confidence

Amazon S3 buckets have the static website hosting feature automatically disabled, this feature can be found under the properties tab for the bucket. I enabled staic website hosting and added the filename for home/index page.

Timeline

Description automatically generated with medium confidence

Background pattern

Description automatically generated with medium confidence

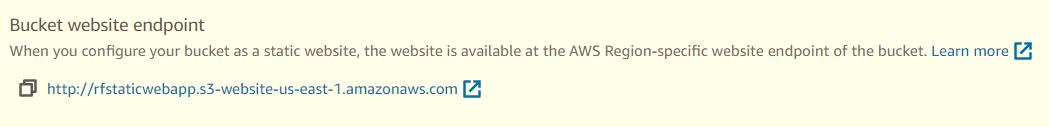
Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated with low confidence

***After enabling the static website feature, we then get a link that can be used to access website***



***Next, granting the public access.***

**This can be done by writing a bucket policy…**

Graphical user interface, text, application, email

Description automatically generated

**Or using the ACL that was previously enabled**

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated with medium confidence

***The ACL could also be edited, and public read access granted***

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

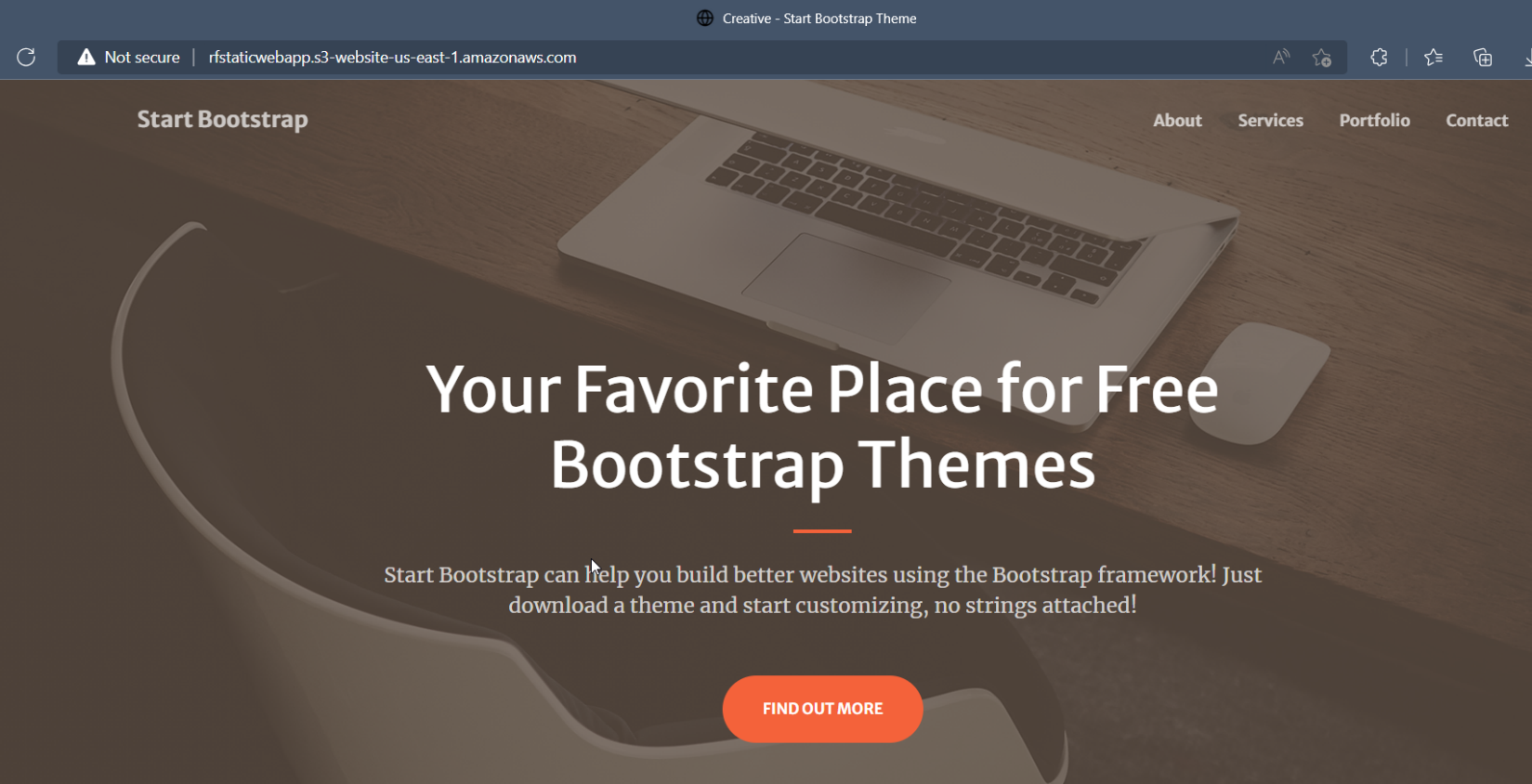
Description automatically generated

A warning comes with taking this action.

Graphical user interface, text, application, email

Description automatically generated

***Pasting the link on browser returns our webpage and users can now interact with organization Z’s website.***



***CONCLUSION:***

A custom domain can be registered using **ROUTE53** on amazon and an entirely different method can be used to host a HTTPS static website on amazon.

Using **CloudFront and S3 bucket**.

**CloudFront supports HTTPS while amazon S3 website endpoint doesn’t**.

So CloudFront can be used to serve the static website hosted on Amazon S3.