**Deploy a Static Website on AWS using Route 53 and S3**

**Project Overview:**

In this project, I will be launching a static website using two AWS services:

Amazon S3 and Amazon Route 53

The landing page serves as an introduction, welcoming visitors to my website, now hosted on Amazon S3.

**Steps for project**

**STEP 1:**

I will start by creating a custom domain name using Route 53. To do this, I will navigate to the Amazon Route 53 dashboard and purchase a domain name. I will check if the desired domain name is available, add it to my cart, and fill in my contact details. Once I provide my details, I will accept the terms and conditions.

**STEP 2:**

The next step is to create an Amazon S3 bucket to host the sample website. I will go to the Amazon S3 page and click on "Create Bucket." I will enter the domain name that I registered as the name for the bucket. I will select a region that is closest to me and uncheck the "Block Public Access" option to ensure that the bucket is publicly accessible on the internet. I will acknowledge the warning and keep the other settings as default.

**STEP 3:**

After creating the bucket, I will click on it and select "Upload." I will upload the contents of my website, including the static website.html file. Once the upload is complete, I will enable static website hosting for the bucket. To do this, I will click on "Properties" and scroll down to the "Static Website Hosting" section. I will enable static website hosting and set the index document to "static website.html." I will save the changes.

**STEP 4:**

In addition, I need to attach a bucket policy to ensure that the bucket is publicly accessible. I will click on "Permissions," then "Edit," and enter a bucket policy. This configuration allows viewers to access the sample website.

**STEP 5:**

At this point, I have successfully hosted the website on Amazon S3. However, the URL provided by Amazon is not my custom domain URL. To redirect my custom domain to the S3 bucket, I will go back to Route 53. I will click on the hosted zone and then on my domain name. I will add an additional record to connect the bucket to the Route 53 domain name.

**STEP 6 :**

To create the record, I will click on "Create Record," choose the simple routing policy, and proceed to define a simple record. I will set the record type as "Alias to S3 website endpoint," choose the region where my bucket is hosted, and select the S3 endpoint. After defining the simple record, I will create it.

It may take a few minutes for the changes to propagate. Once the changes have propagated, my custom domain, such as "soumyaproject.click," will be pointing to the S3 bucket, and the website will display the welcome message.

**STEP 7:**

In conclusion, I have completed the project by hosting a static website on Amazon S3 and connecting it to a custom domain using Amazon Route 53.