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

**Project Overview:**

In this project, I have launched 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, which is now hosted on Amazon S3.

**Steps for project:**

**STEP 1:**

I started by creating a custom domain name using Route 53. To accomplish this, I navigated to the Amazon Route 53 dashboard and purchased a domain name. After confirming its availability, I added it to my cart and provided my contact details. Finally, I accepted the terms and conditions.

**STEP 2:**

Next, I created an Amazon S3 bucket to host the sample website. I went to the Amazon S3 page and clicked on "Create Bucket." I named the bucket after my chosen domain name and selected the region closest to me. To ensure public accessibility, I unchecked the "Block Public Access" option and proceeded while keeping the other settings as default.

**STEP 3:**

After creating the bucket, I uploaded the contents of my website, including the static website.html file. Once the upload was complete, I enabled static website hosting for the bucket. By accessing the "Properties" section, I scrolled down to the "Static Website Hosting" area, enabled it, and set the index document to "static website.html."

**STEP 4:**

To grant public access to the website, I attached a bucket policy in the "Permissions" section. After clicking on "Edit," I added the necessary bucket policy, allowing viewers to access the sample website.

**STEP 5:**

At this point, I had successfully hosted the website on Amazon S3. However, the URL provided by Amazon was not my custom domain URL. To redirect my custom domain to the S3 bucket, I returned to Route 53. I accessed the hosted zone and my domain name, and I added an additional record to connect the bucket to the Route 53 domain name.

**STEP 6:**

To create the record, I clicked on "Create Record" and selected the simple routing policy. Then, I defined a simple record by setting the record type as "Alias to S3 website endpoint," choosing the appropriate region for my bucket, and selecting the S3 endpoint. After defining the record, I created it.

**STEP 7:**

It took a few minutes for the changes to propagate. Once the changes were implemented, my custom domain, such as "soumyaproject.click," pointed to the S3 bucket, and the website displayed the welcome message.

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.