

Part 2: Hosting a Static Portfolio Website on S3

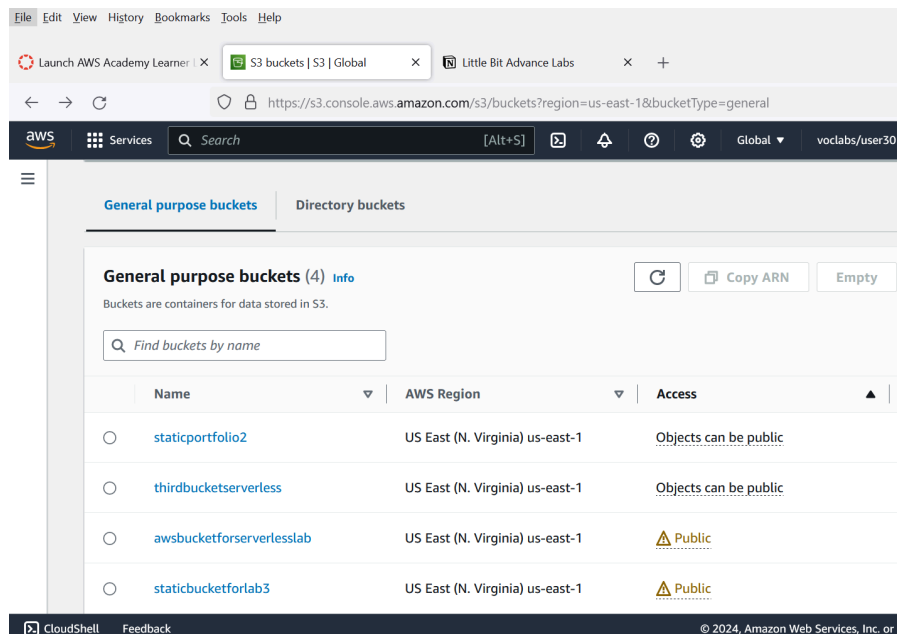
Objective: Learn to host a static website (such as a personal portfolio) on Amazon S3.

Approach:

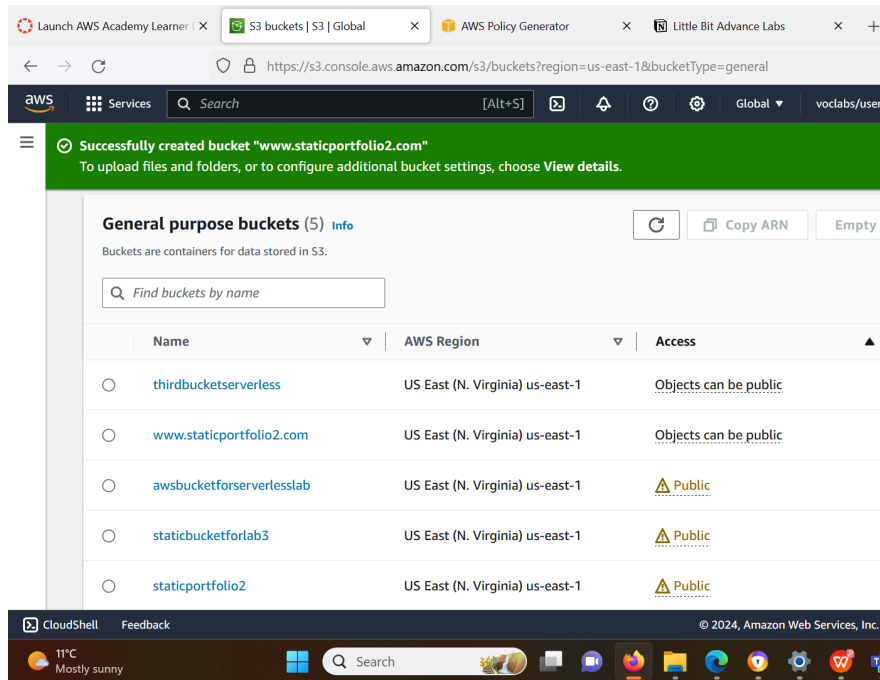
1. **Create an S3 Bucket:** Start by creating a new S3 bucket. Configure the bucket for website hosting, which includes setting permissions to make the content publicly accessible.
2. **Upload Website Files:** Upload the static files of your portfolio website (HTML, CSS, JavaScript, images) to the S3 bucket.
3. **Configure DNS:** Use Amazon Route 53 or another DNS service to point a domain name to the S3 bucket. This makes the website accessible via a user-friendly URL.
4. **Enable Additional Features** (Optional): Implement features like HTTPS for secure access and CloudFront for content delivery optimization.

Goal: Students will understand how to use S3 for hosting static websites, manage bucket permissions, and integrate with other AWS services for a complete web hosting solution

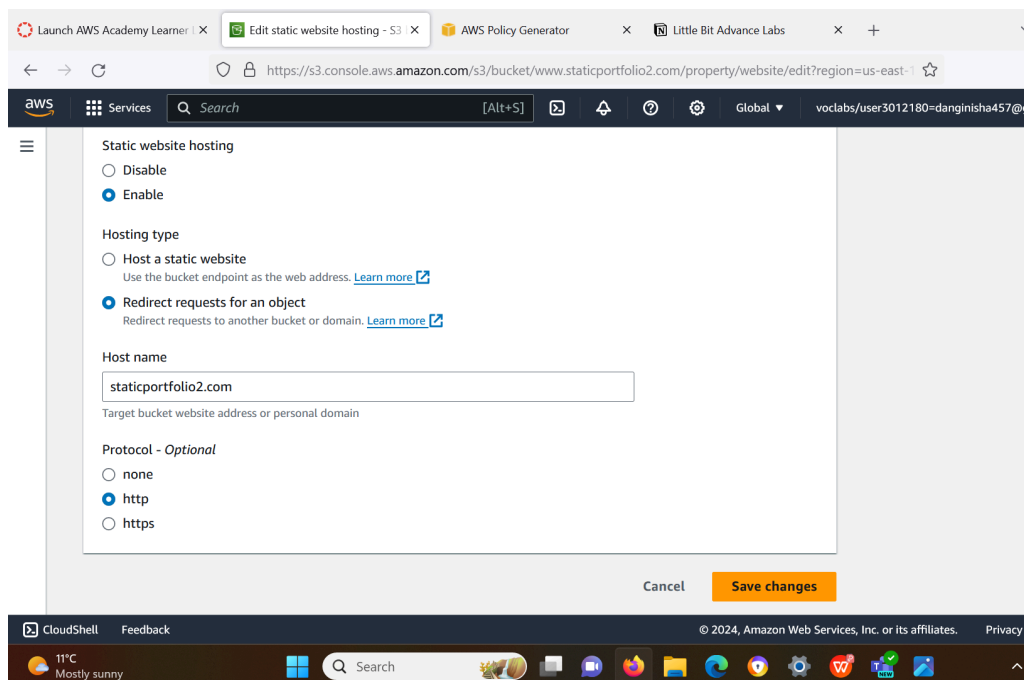
We start by creating a bucket named staticportfolio2 and upload our static website.



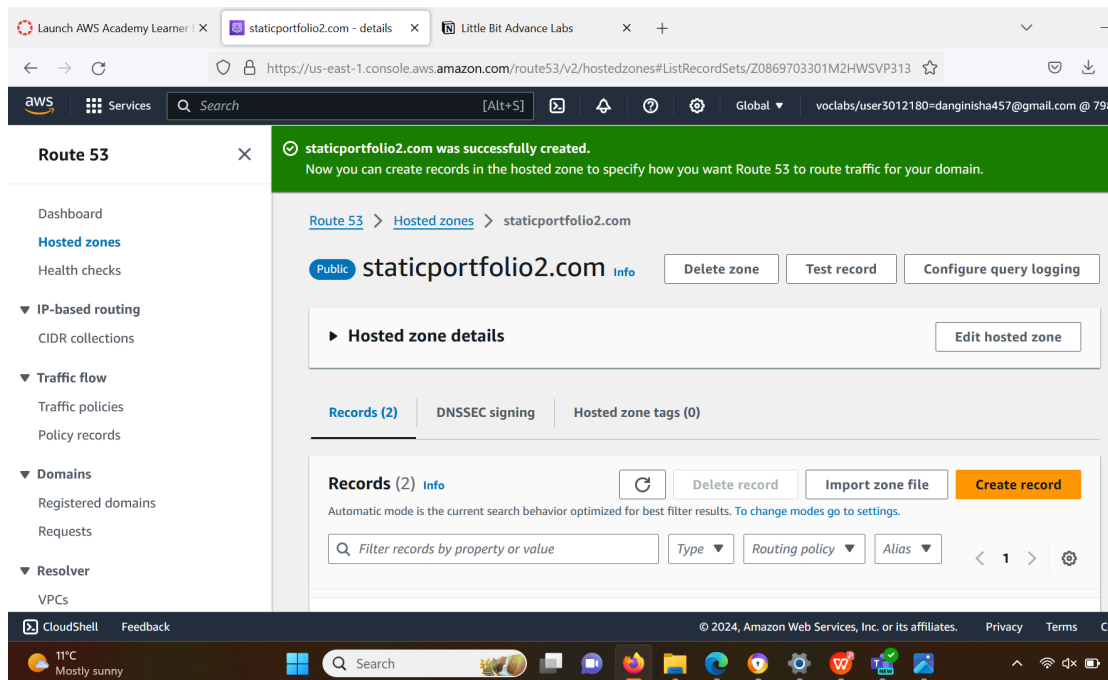
We create another bucket with same name but with www and .com



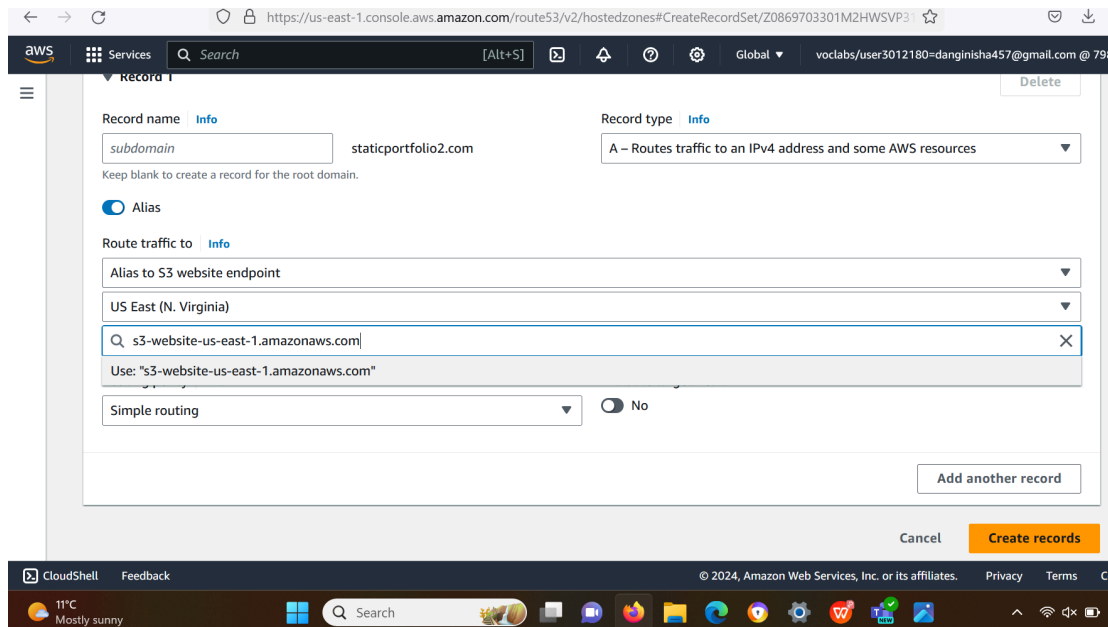
We enable static hosting and choose http as protocol.



Then, we create a hosted zone.



Then, we create a record and enable alias also enable alias to S3 website endpoint.



We can see that new record has been created.

The screenshot shows the AWS Route 53 console for the hosted zone `staticportfolio2.com`. A blue notification banner at the top states: "Record for staticportfolio2.com was successfully created. Route 53 propagates your changes to all of the Route 53 authoritative DNS servers within 60 seconds. Use 'View status' button to check propagation status." Below the banner, the "Records (3)" section is active, displaying a table of records:

Record	Type	Routing	Differ...	Alias	Value/Route traffic to
staticport...	A	Simple	-	Yes	s3-website-us-east-1.amazo...
staticport...	NS	Simple	-	No	ns-951.awsdns-54.net. ns-462.awsdns-57.com. ns-1709.awsdns-21.co.uk. ns-1359.awsdns-41.org.
staticport...	SOA	Simple	-	No	ns-951.awsdns-54.net. awsd...

We repeat the same process for staticportfolio2.com too.

The screenshot shows the "Quick create record" form in the AWS Route 53 console. The form is for creating a new record for the domain `staticportfolio2.com`. The "Record name" field contains `www`, and the "Record type" is set to `A - Routes traffic to an IPv4 address and some AWS resources`. The "Alias" checkbox is checked. The "Route traffic to" field is set to `Alias to S3 website endpoint`, and the "Routing policy" is set to `Simple routing`. The "Evaluate target health" checkbox is also checked. The "Add another record" button is visible at the bottom right.

We can see that records has been created.

The screenshot displays the AWS Management Console interface for a Route 53 Hosted zone. The left sidebar shows the navigation menu with options like Dashboard, Hosted zones, Health checks, IP-based routing, Traffic flow, Domains, and Resolver. The main content area is titled 'Hosted zone details' and shows 'Records (4)'. Below this, there is a table of records. The table has columns for Record ID, Record Name, Type, Routing Policy, Alias, and Value/Route traffic. Two records are visible: one with Type 'A' and Value 's3-website-us-east-1.amazonaws.com', and another with Type 'NS' and Value 'ns-951.awsdns-54.net, ns-462.awsdns-54.net, ns-1709.awsdns-54.net, ns-1359.awsdns-54.net'.

Record ID	Record Name	Type	Routing Policy	Alias	Value/Route traffic	
staticport...	staticport...	A	Simple	-	Yes	s3-website-us-east-1.amazonaws.com
staticport...	staticport...	NS	Simple	-	No	ns-951.awsdns-54.net, ns-462.awsdns-54.net, ns-1709.awsdns-54.net, ns-1359.awsdns-54.net