S3 Web Host: Deploying Static Sites on AWS

Step 1: Create an S3 Bucket

- Sign in to the AWS Management Console.
- Navigate to the Amazon S3 console.
- Click on Create bucket.
- Provide a bucket name that is unique and DNS compliant.
- Select the region closest to your target audience for reduced latency.
- Uncheck Block all public access to allow public access to the website.

Step 2: Enable Static Website Hosting

- Select the newly created bucket.
- Go to the Properties section.
- Find the Static website hosting option and enable it.
- Specify the index document (usually index.html).
- Optionally, set an error document (like error.html).

Step 3: Upload Website Files

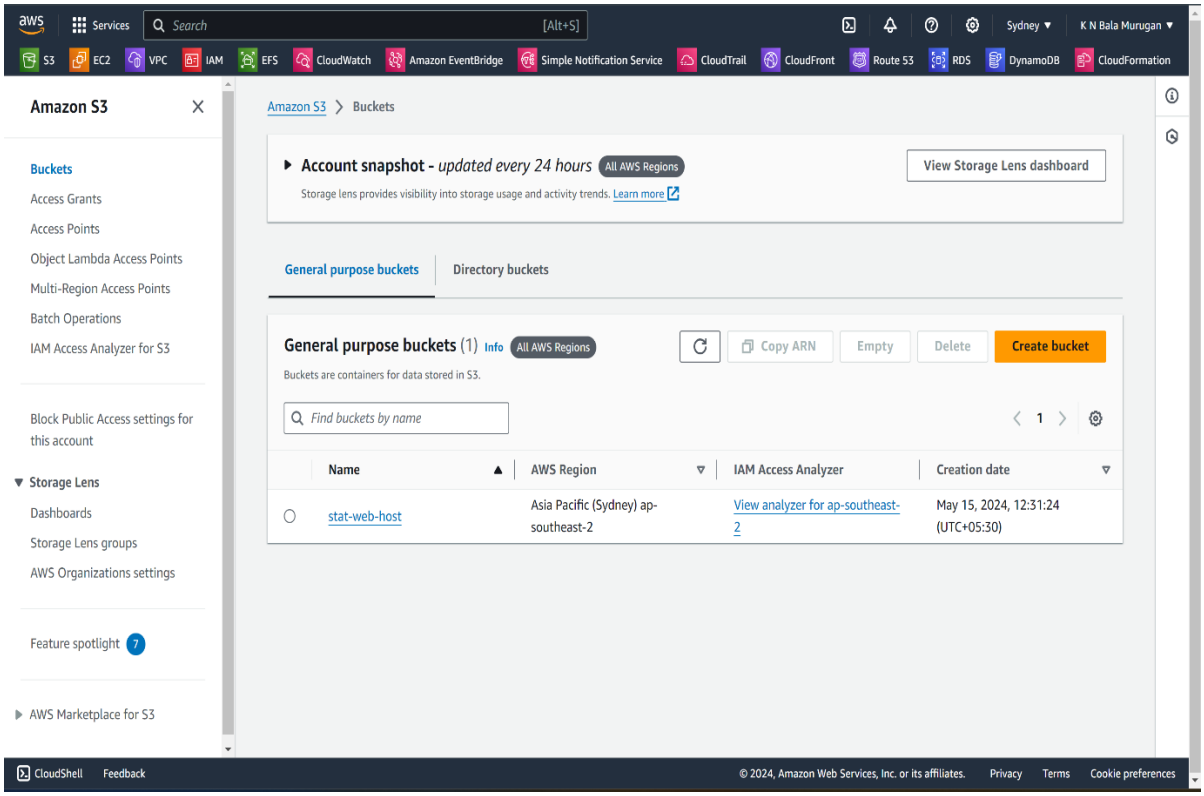
- Go to the Objects tab in your bucket.
- Click on Upload and add your website files (HTML, CSS, JS, images, etc.).
- Set the permissions to make the files publicly accessible.

Step 4: Set Bucket Policy

- Navigate to the Permissions tab of your bucket.
- Edit the Bucket policy to grant public read access to the website files.

Step 5: Access Your Website

- After uploading the files and setting the correct permissions, your website should be live.
- You can access it via the endpoint provided in the Static website hosting section of your bucket's properties.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Services
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Sydney
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S3
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CloudWatch
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CloudTrail
CloudFront
Route 53
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CloudFormation
Amazon S3
Buckets
Access Grants
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
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AWS Marketplace for S3
Amazon S3 > Buckets
Account snapshot - updated every 24 hours
All AWS Regions
Storage lens provides visibility into storage usage and activity trends. Learn more
View Storage Lens dashboard
General purpose buckets
Directory buckets
General purpose buckets (1) Info
All AWS Regions
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3.
Find buckets by name
Name
AWS Region
IAM Access Analyzer
Creation date
stat-web-host
Asia Pacific (Sydney) ap-southeast-2
View analyzer for ap-southeast-2
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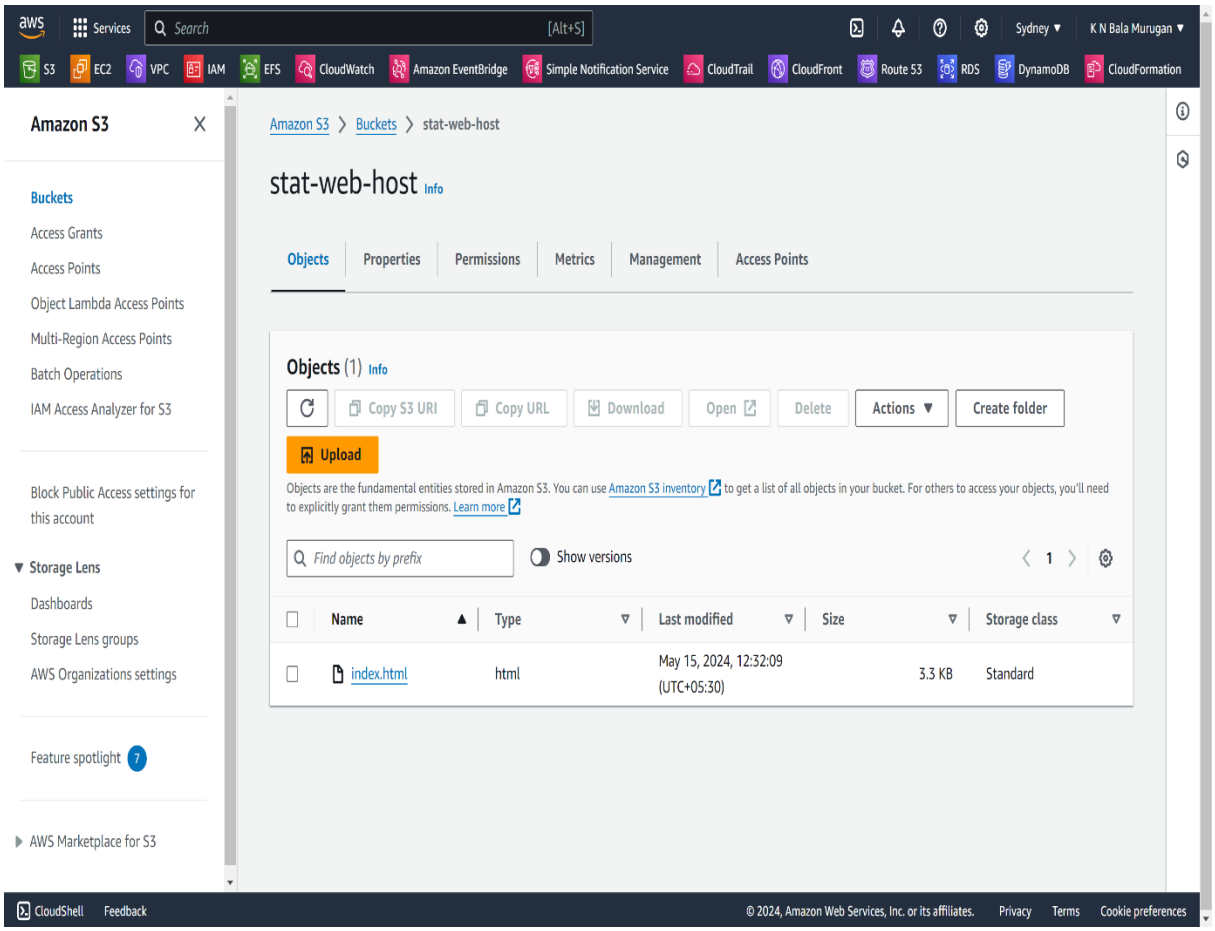
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AWS Marketplace for S3
Amazon S3 > Buckets > stat-web-host
stat-web-host Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1) Info
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Show versions
Name
Type
Last modified
Size
Storage class
index.html
html
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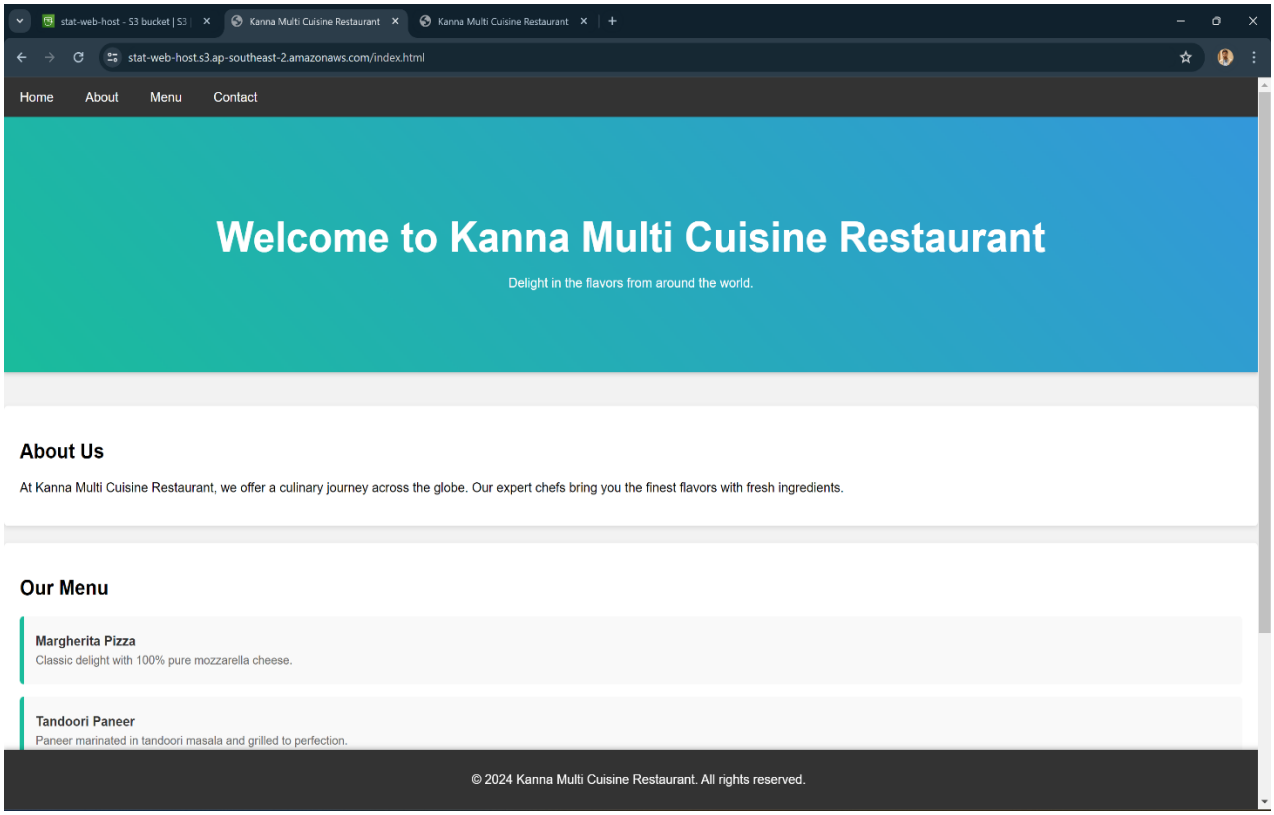

CONCLUSION

- Engineered a scalable static website hosting** on Amazon S3, focusing on cost-efficiency and ease of content delivery with high uptime.
- Established public read access** through precise S3 bucket policies, ensuring secure content distribution without compromising on data privacy.
- Optimized website performance** by utilizing S3's built-in capabilities for web hosting, resulting in a responsive user experience with minimal maintenance.