web hosting

Hosting a Static Website on AWS S3

This presentation will guide you through the process of hosting a static website on Amazon Web Services (AWS) Simple Storage Service (S3).

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What is AWS S3?

Scalable Storage
AWS S3 is a highly scalable object storage service offering a range of storage classes for different data needs.

Cost-Effective
S3 pricing is based on data storage and retrieval, making it cost-effective for static website hosting.

Durable and Reliable
S3 ensures high availability and durability of your website files, minimizing downtime.

Secure
S3 offers comprehensive security features, including encryption, access control, and compliance with industry standards.

Benefits of Hosting on AWS S3

1 **Low Cost**
S3 provides cost-effective storage for static websites, compared to traditional web hosting.

2 **High Performance**
S3 is designed for high availability and low latency, ensuring fast loading times for your website.

3 **Scalability**
S3 can easily handle increased traffic, making it suitable for growing websites.

4 **Global Reach**
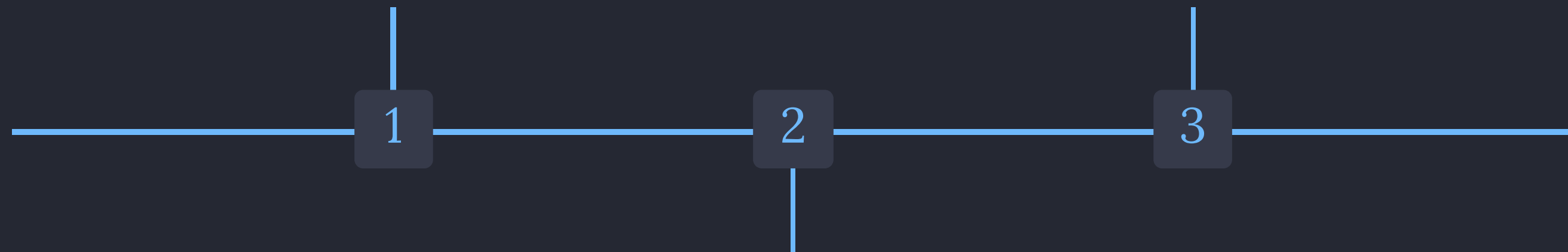S3 has a global network of data centers, ensuring fast website delivery to users worldwide.

Setting up an S3 Bucket

Sign in to AWS Console
Log in to your AWS account and navigate to the S3 service.

Configure Bucket Permissions
Set permissions for your bucket, allowing public access for website content.

1   **2**   **3**

Create Bucket

Click "Create bucket" and choose a unique name for your bucket. Select a region appropriate for your target audience.

Configuring S3 Bucket for Static Website Hosting

1

Enable Static Website Hosting

From the bucket settings, enable "Static website hosting" and configure the index document (e.g., index.html) and error document (e.g., 404.html).
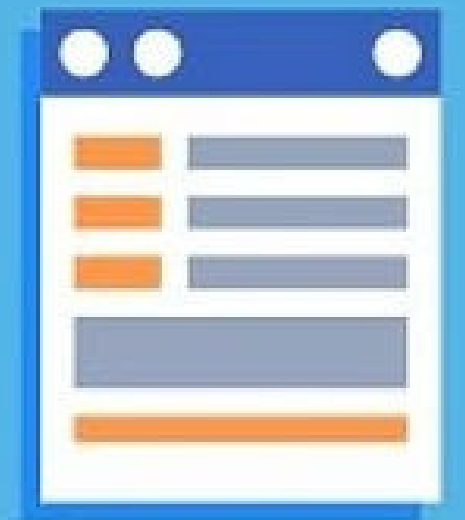
2

Set Bucket Policy

Create a bucket policy to define access permissions for your website content. Allow public read access for the files.

3

Configure CORS Rules

Set up Cross-Origin Resource Sharing (CORS) rules to allow other websites to access resources from your bucket.

Uploading Website Files to S3

Using AWS Console
Navigate to your bucket in the AWS console and upload your website files (HTML, CSS, images, JavaScript) through the web interface.

Using AWS CLI
Utilize the AWS Command Line Interface (CLI) to upload website files from your local computer using commands.

Using AWS S3 Sync Tool
The S3 sync tool enables you to synchronize local files with your S3 bucket, ensuring consistent updates.

Configuring DNS and Domain Settings

STEP 1	Register a Domain
STEP 2	Set up DNS Records
STEP 3	Configure Domain Alias

Conclusion and Next Steps

Go Live
Once your DNS settings propagate, your static website will be accessible via your registered domain.

Monitoring and Performance
Use AWS services like CloudWatch to monitor your website's performance and identify potential issues.

Security Best Practices
Regularly review and update your S3 bucket permissions and security settings to prevent unauthorized access.

Optimization
Optimize your website for speed and performance using techniques such as content delivery networks (CDNs).