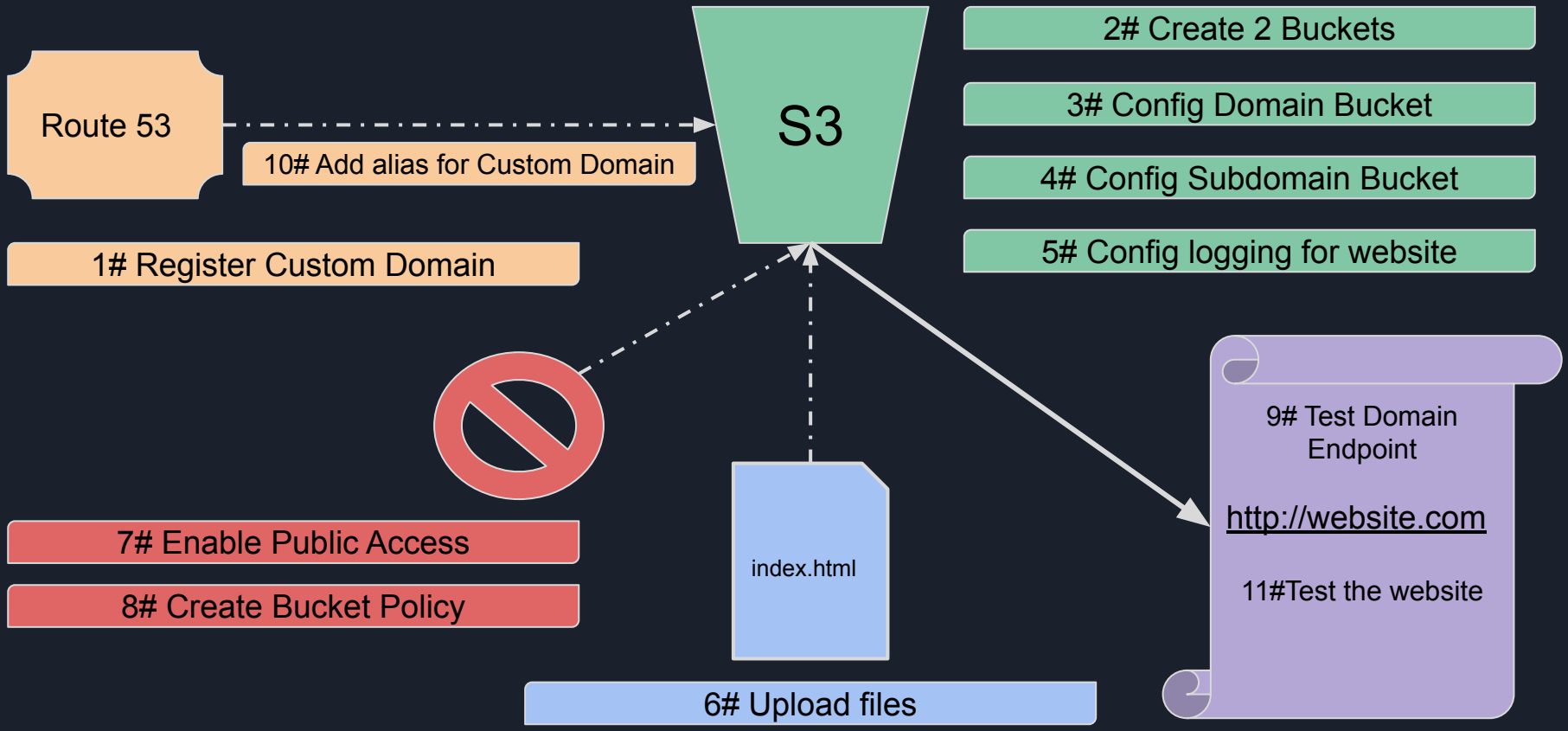
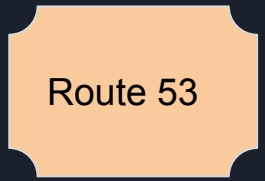
Static Web Hosting Using Custom Domain

Amazon Web Services (AWS)

Architecture



Architecture



1# Register Custom Domain

Step 1: Register a Custom Domain with Route 53

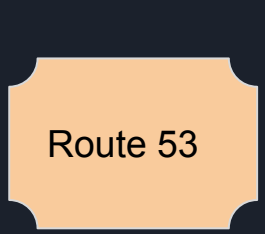
-> AWS Management Console -> Services -> Route 53

-> Domain Registrations -> Domains

-> Register domains -> Check -> "shahpar-islam.com"

-> Add to cart -> Continue to Billing policy

Architecture



2# Create 2 Buckets

1# Register Custom Domain

Step 2: Create Two Buckets

-> Services -> S3

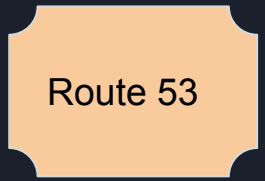
-> Create Domain Bucket -> Bucket Name : (shahpar-islam.com)

-> Choose Region -> Default Settings -> Create

-> Create Subdomain Bucket -> Bucket Name : (www.shahpar-islam.com)

-> Choose Region -> Default Settings -> Create

Architecture



1# Register Custom Domain

2# Create 2 Buckets

3# Config Domain Bucket

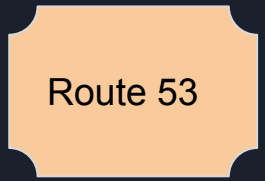
Step 3: Configure Your Root Domain Bucket for Website Hosting

-> Choose bucket : shahpar-islam.com -> properties

-> Static Website Hosting -> Use this bucket to host a website

-> index document -> index.html ->save

Architecture



1# Register Custom Domain

2# Create 2 Buckets

3# Config Domain Bucket

4# Config Subdomain Bucket

Step 4: Configure Your Subdomain Bucket for Website Redirect

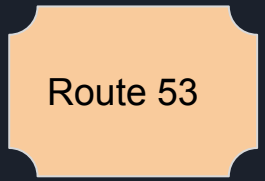
-> Choose bucket : www.shahpar-islam.com -> properties

-> Static Website Hosting -> Redirect requests

-> Target bucket or domain -> shahpar-islam.com -> protocol -> http

-> save

Architecture



1# Register Custom Domain

2# Create 2 Buckets

3# Config Domain Bucket

4# Config Subdomain Bucket

5# Config logging for website

Step 5: Configure Logging for Website Traffic (Optional)

-> Services -> S3

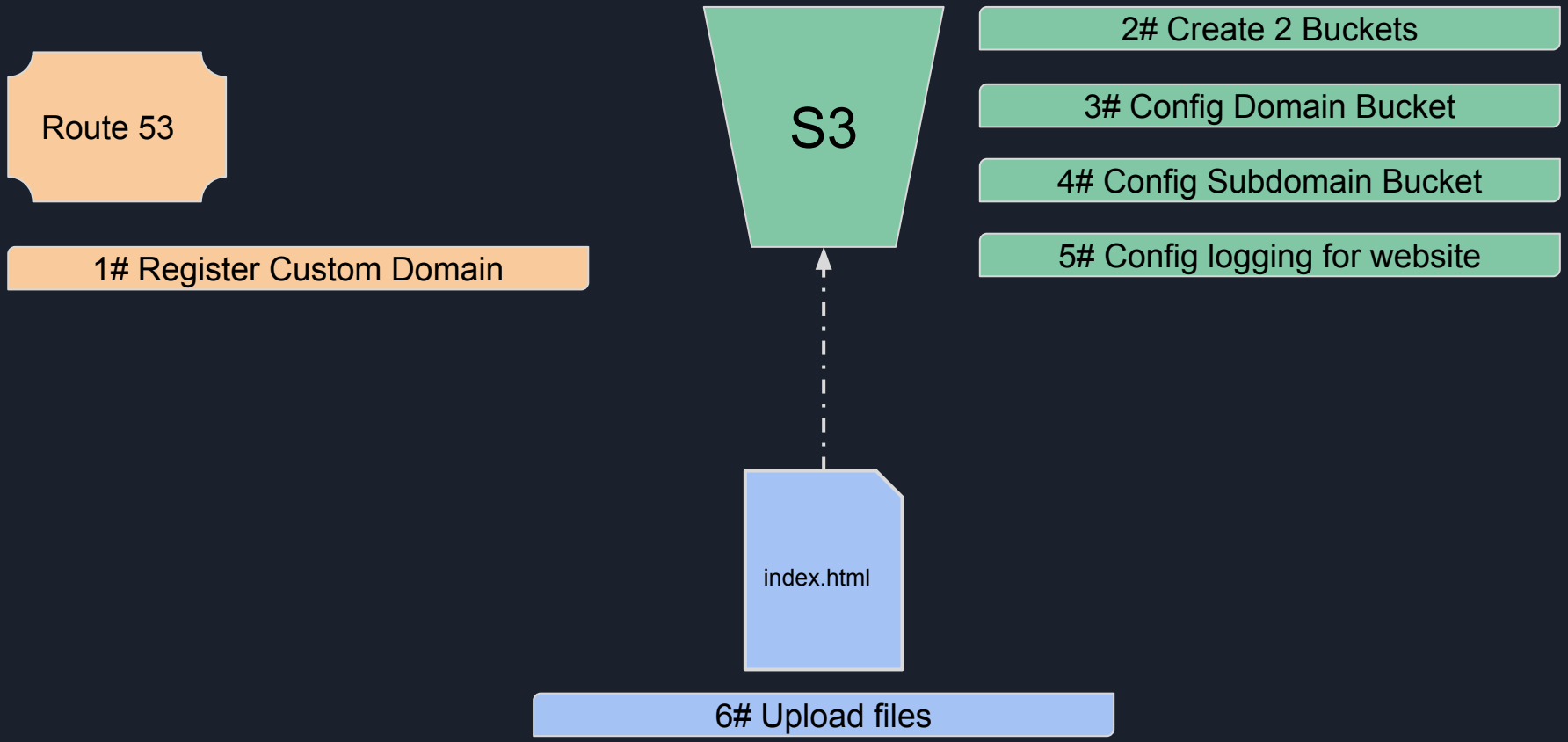
-> Create Domain Bucket -> Bucket Name : (logs.shahpar-islam.com) -> Choose Region -> Default Settings -> Create

-> Create two folders "root" and "cdn"

-> Go to "shahpar-islam.com" bucket -> properties -> Server Access Logging -> Enable Logging

-> Target bucket -> logs.shahpar-islam.com -> target prefix -> root/ -> save

Architecture

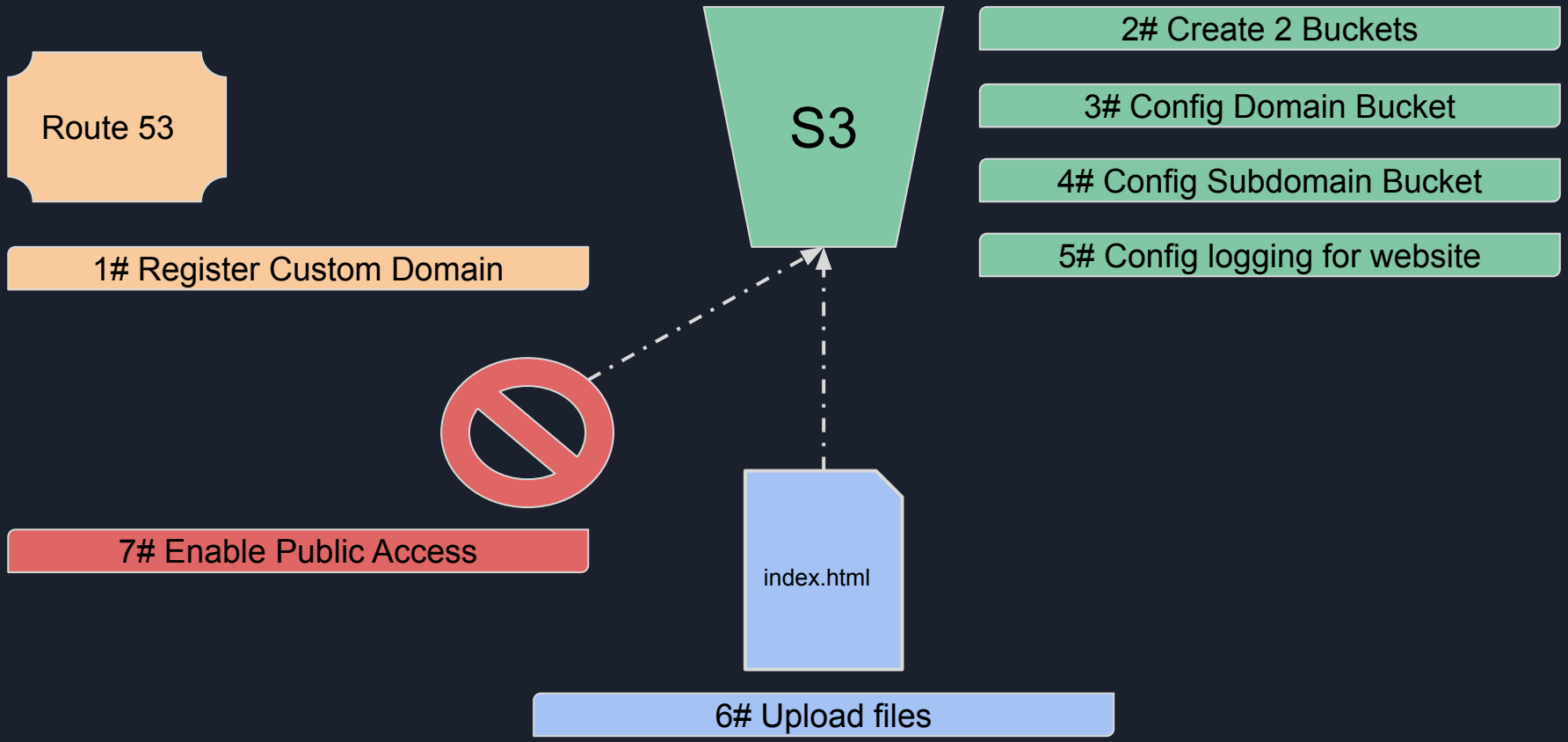


Step 6: Upload Index and Website Content

-> create an "index.html" file

-> S3 -> choose "shahpar-islam.com" -> upload -> add file

Architecture

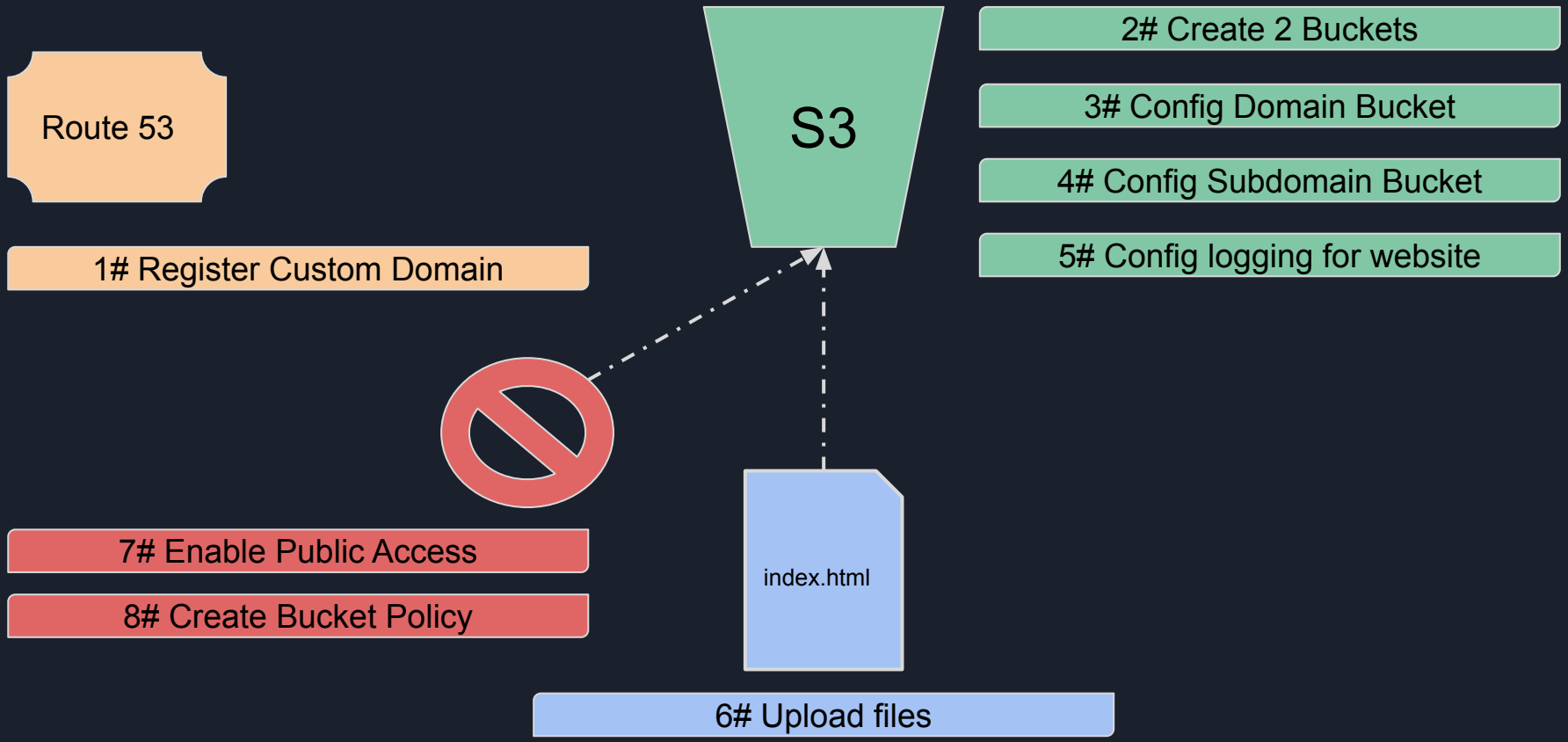


Step 7: Edit Block Public Access Settings

-> S3 -> choose "shahpar-islam.com"

-> Permission -> uncheck block public access -> confirm -> save

Architecture



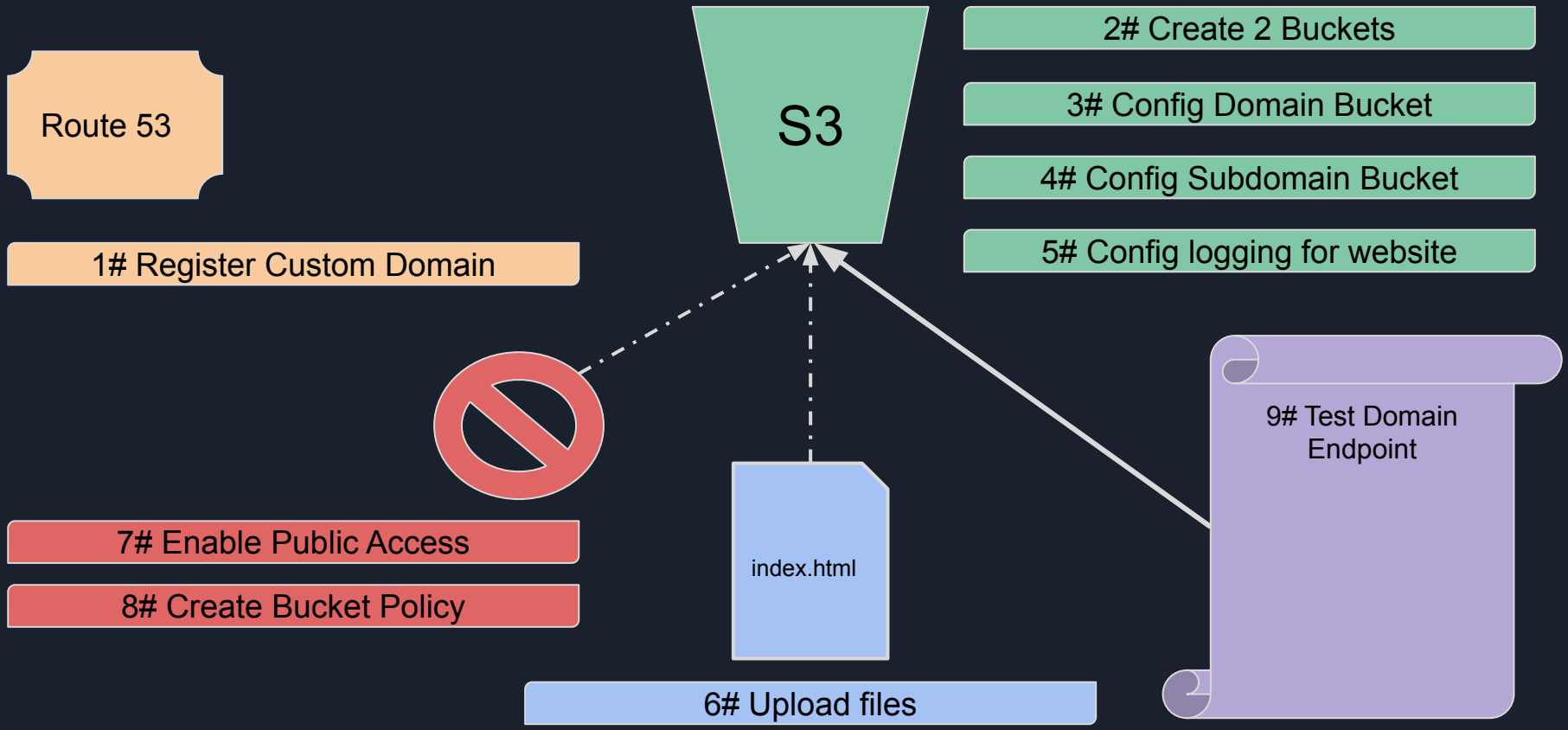
Step 8: Attach a Bucket Policy

-> S3 -> choose "shahpar-islam.com"

-> Policy -> Paste the below policy

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Sid": "PublicReadGetObject",
            "Effect": "Allow",
            "Principal": "*",
            "Action": [
                "s3:GetObject"
            ],
            "Resource": [
                "arn:aws:s3:::shahpar-islam.com/*"
            ]
        }
    ]
}
```

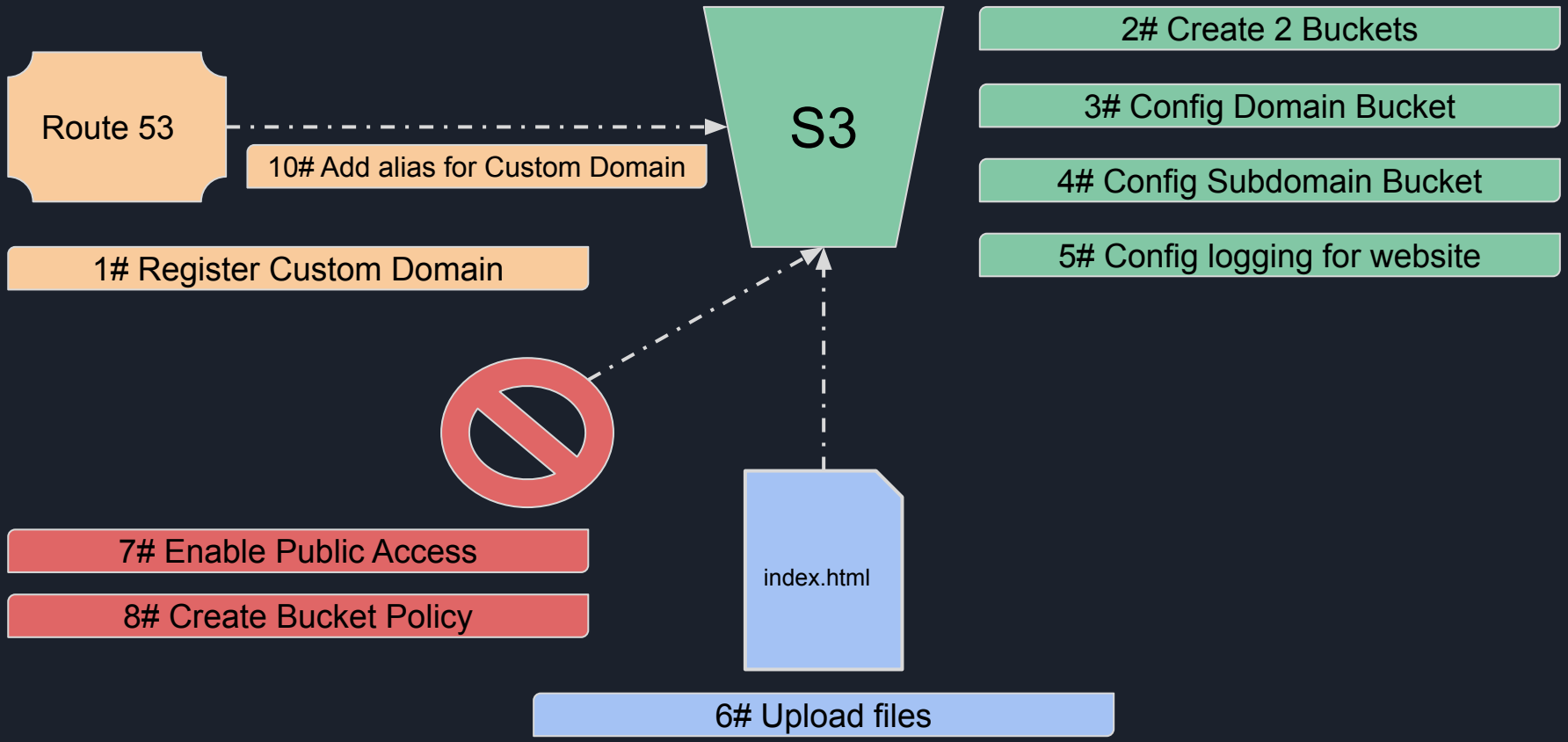
Architecture



Step 9: Test Your Domain Endpoint

-> http://shahpar-islam.com.s3-website-us-east-1.amazonaws.com

Architecture



Step 10: Add Alias Records for Your Domain and Subdomain

-> Domain

-> Route 53 -> DNS Management -> Hosted Zones -> Create Record Set

-> name : same as "shahpar-islam.com"

-> Type : IPv4

-> Alias : Yes

-> Alias Target : shahpar-islam.com.s3-website-us-east-1.amazonaws.com

-> Routing Policy : Simple

-> Evaluate Target Health : No

Step 10: Add Alias Records for Your Domain and Subdomain

-> Subdomain

-> Route 53 -> DNS Management -> Hosted Zones -> Create Record Set

-> name : same as "www.shahpar-islam.com"

-> Type : IPv4

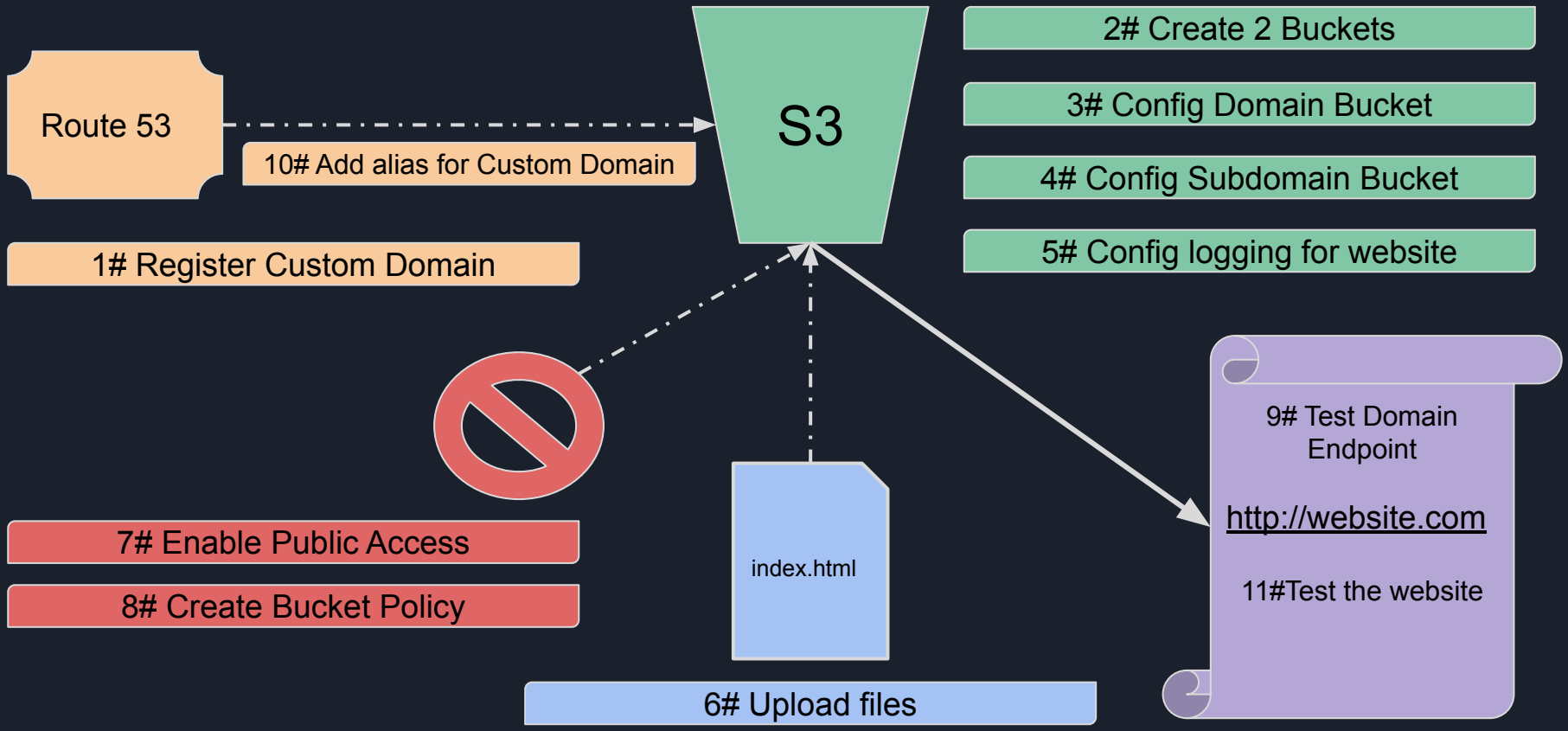
-> Alias : Yes

-> Alias Target : www.shahpar-islam.com.s3-website-us-east-1.amazonaws.com

-> Routing Policy : Simple

-> Evaluate Target Health : No

Architecture



Step 11: Test the Website

-> check http:/shahpar-islam.com

-> check http:/www.shahpar-islam.com

Thank You!