Terraform Code Challenge

Terraform

Scenario

Update the Terraform configuration to provision an S3 bucket and a CloudFront distribution, enabling access to objects within the S3 bucket via CloudFront. Feel free to correct any mistakes as necessary.

S3 Bucket:

- **Name**: Give the s3 bucket name is "fn-s3-bucket"
- **Versioning**: Versioning the S3 bucket
- **Access Control**: Control access to the S3 bucket using "fn-s3-bucket-acl"
- **Lifecycle Rules**: Set up lifecycle rules for the S3 bucket - after 1 year data will be deleted

CloudFront Distribution:

- **Origin**: "fn-s3-bucket" will be the origin for the CloudFront distribution.
- **Default Root Object**: When a user requests the CloudFront distribution's root path (/), which object from the S3 bucket should be served? In this case, we want it to serve "index.html".
- **Redirection**: Redirect all HTTP requests to HTTPS for security reasons.

Additional Considerations:

- **Tags**: Give the tag name of the bucket "FnS3Bucket"

Code snippet

```
provider "aws" {
  region = "us-east-1"
}
resource "aws_s3_bucket" "example_bucket" {
  // write your code here
}
resource "aws_cloudfront_distribution" "example_distribution" {
  origin {
    // write your code here
  }
  enabled             = true
  default_root_object = "test_index.html"
  default_cache_behavior {
    allowed_methods  = ["GET", "HEAD", "OPTIONS"]
    cached_methods   = ["GET", "HEAD", "OPTIONS"]
    target_origin_id = aws_s3_bucket.fn_bucket.bucket_regional_domain_name
    forwarded_values {
      query_string = false
      cookies {
        forward = "none"
      }
```

```
    }
    // redirection code write here
  }
  restrictions {
    geo_restriction {
      restriction_type = "none"
    }
  }
  viewer_certificate {
    cloudfront_default_certificate = true
  }
}
```