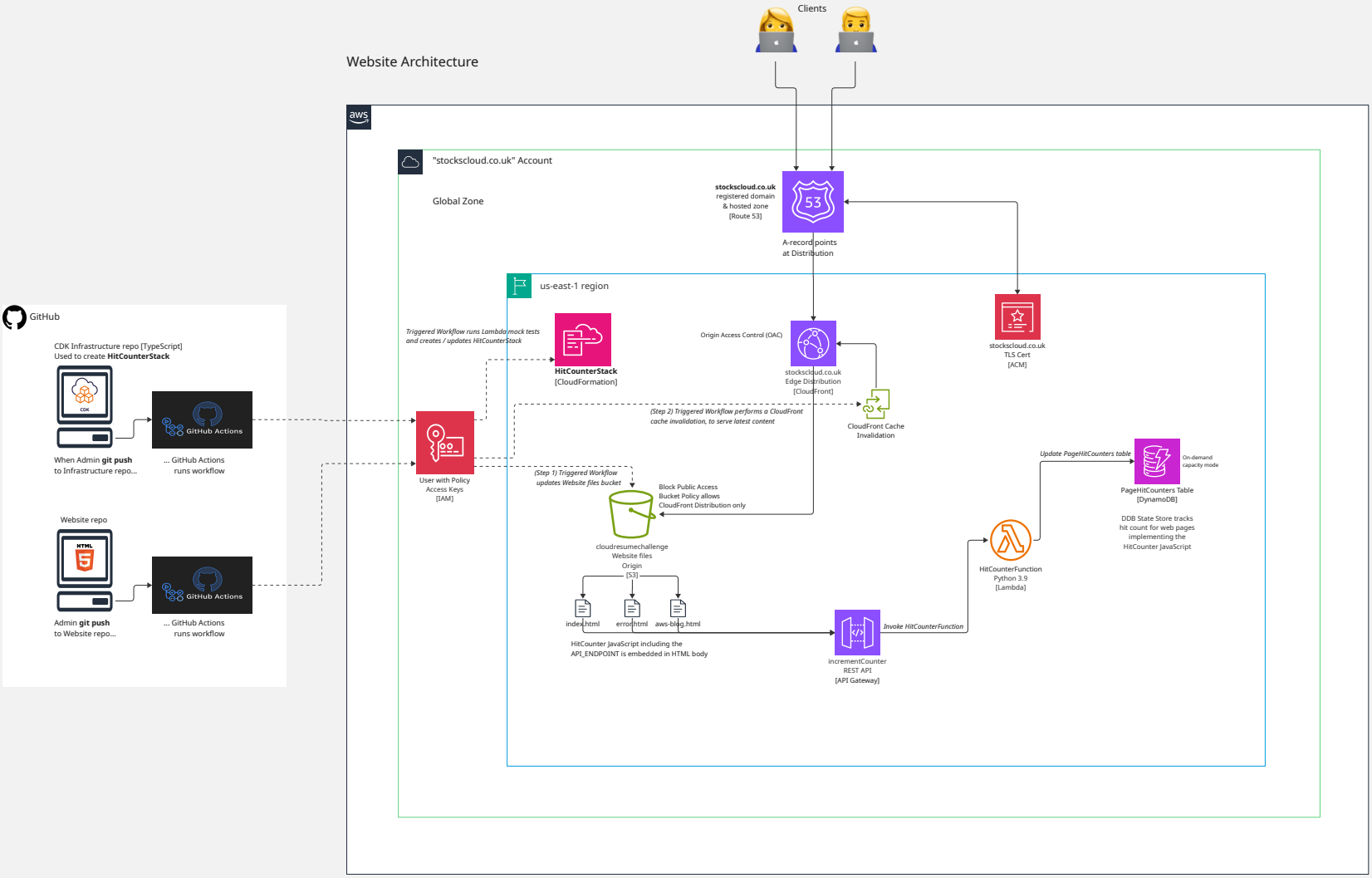
Website Architecture
Clients
aws
"stockscloud.co.uk" Account
Global Zone
stockscloud.co.uk
registered domain
& hosted zone
[Route 53]
A-record points
at Distribution
us-east-1 region
Triggered Workflow runs Lambda mock tests
and creates / updates HitCounterStack
HitCounterStack
[CloudFormation]
Origin Access Control (OAC)
stockscloud.co.uk
Edge Distribution
[CloudFront]
stockscloud.co.uk
TLS Cert
[ACM]
(Step 2) Triggered Workflow performs a CloudFront
cache invalidation, to serve latest content
CloudFront Cache
Invalidation
User with Policy
Access Keys
[IAM]
(Step 1) Triggered Workflow
updates Website files bucket
Block Public Access
Bucket Policy allows
CloudFront Distribution only
cloudresumechallenge
Website files
Origin
[S3]
index.html
error.html
aws-blog.html
HitCounter JavaScript including the
API_ENDPOINT is embedded in HTML body
incrementCounter
REST API
[API Gateway]
Invoke HitCounterFunction
HitCounterFunction
Python 3.9
[Lambda]
Update PageHitCounters table
On-demand
capacity mode
PageHitCounters Table
[DynamoDB]
DDB State Store tracks
hit count for web pages
implementing the
HitCounter JavaScript
GitHub
CDK Infrastructure repo [TypeScript]
Used to create HitCounterStack
CDK
When Admin git push
to Infrastructure repo...
GitHub Actions
... GitHub Actions
runs workflow
Website repo
HTML
Admin git push
to Website repo...
GitHub Actions
... GitHub Actions
runs workflow