



moonshot
Aim for the moon. Get there.

Learn How Cloudride helped Moonshot facilitate rapid growth



Cloudride experts acknowledge our company's infrastructure development process and architect a solution tailor-made to our needs. This work was a crucial milestone that should enable us to scale our testing environments and systems in step with our rapid growth.

Eran Krisi
R&D Manager



INTRO

Moonshot Marketing is a tech startup that leverages Artificial Intelligence to help advertisers achieve better results from their campaigns.

Moonshot's Algorithm automates most of the manual work campaign managers are needed to do (adding keywords, A/B testing ads, changing budgets, and much more), allowing them to spend time on more strategic and high-level optimization efforts.

THE CHALLENGE

The customer is holding more than 400 CloudFront distributions, and almost in all of them there are associated Lambda functions.

Each of these distributions is caching a website hosted in S3 static hosting. The Lambda functions will be triggered by one of the four options (viewer-request, viewer-response, origin-request, origin-response) according to the design of the specific lambda actions and its use.

The Lambda execution will customize the user's original request and will respond with a custom website according to the user's preferences.

The challenge is to have an option to automatically change those lambda versions associated with all of the CloudFront distributions in a easy and intuitive way

THE GOAL

The goal is to build a process to automatically change the Lambda versions associated with these distributions with the option to change all of the distributions at once, or just a specific distribution.



Flexibility



Automation





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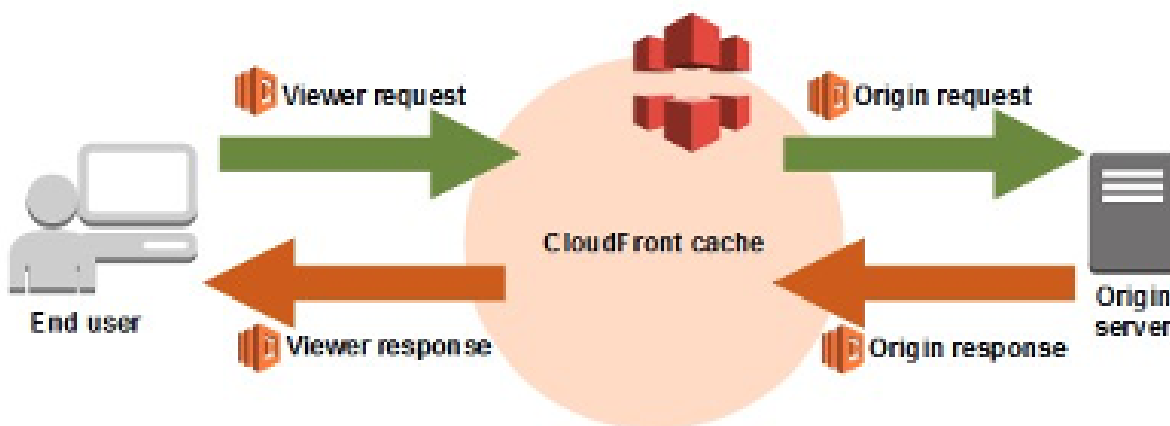
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THE CLOUDRIDE SOLUTION

About Lambda@Edge:

Lambda@Edge is a subservice of Lambda which utilizes the AWS edge locations network with a combination of CloudFront distribution

Lambda@Edge can be associated with a CloudFront distribution and will be executed in one of four options before the cached content is delivered back to the user via Cloudfront:



The Lambda@Edge is executing at one of the AWS edge locations, which reduces the execution time because the function is running much closer to the user.

The suggested solution is to use Jenkins as a CD tool to build a unique job that will grab parameters from the user and trigger a custom script utilizing CloudFront API in order to execute the replacement of the Lambda versions.

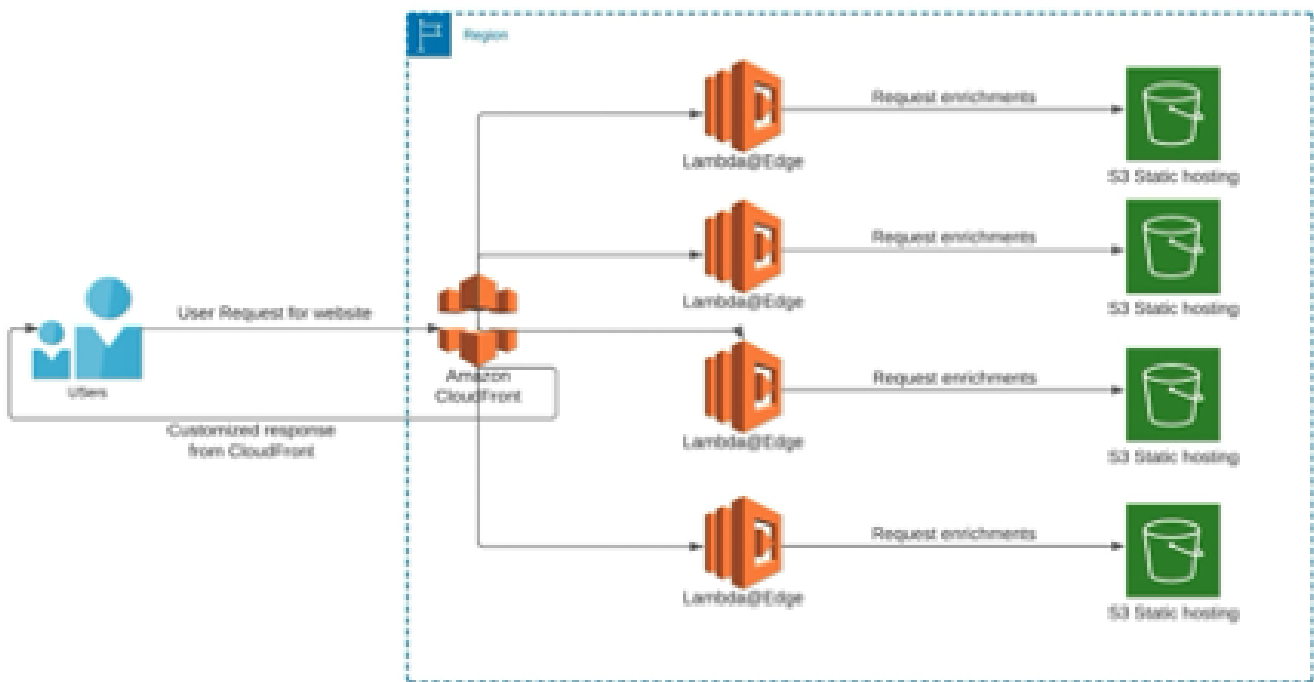
Using Jenkins "Active Choice Parameter" , we built a logic that includes a set of parameters that will be extracted from AWS CLI commands in order to get the CloudFront domain, distribution id, path pattern, request type and the lambda version to upgrade Then, we injected those parameters into a custom script that will run on the specified distributions and make the Lambda versions replacement.



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ARCHITECTURE



THE RESULT

Cloudride created a fully automated, high availability, scaled and elastic solution that allows the MoonShot team to focus on what they do best, while keeping the cost as minimal as possible without any implication on the company behavior.

A new era. Whatever digital future demands, we will keep developing the right solutions for our customers.



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