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# REX AWS Lambda@Edge & HTTP Security Headers

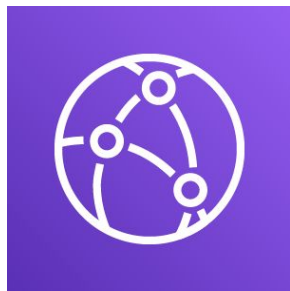
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OWASP Paris — 23 Jun 2020

Antoine TANZILLI — OCTO



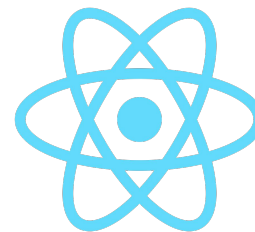
# Archi AWS SPA React



CDN (Cloudfront)



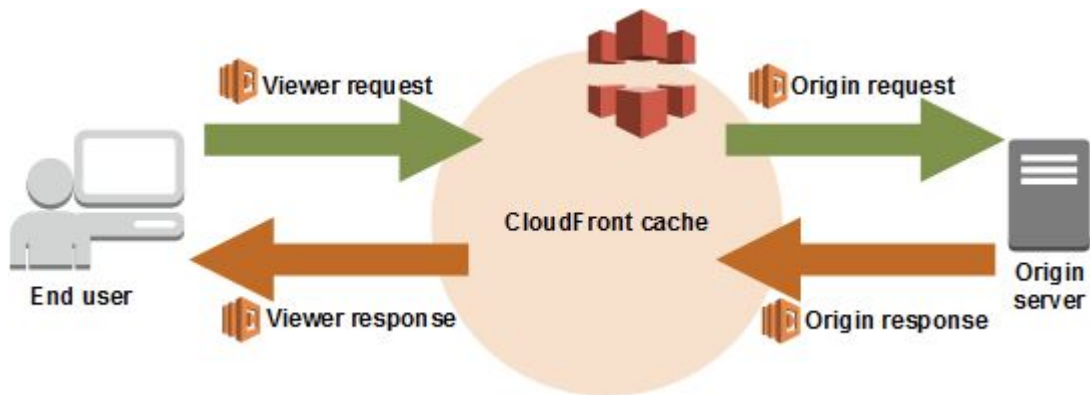
Storage (S3)



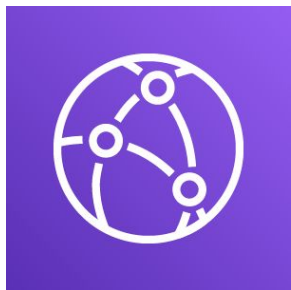
SPA React



# Lambda@Edge



# Archi AWS SPA React avec Lambda@Edge



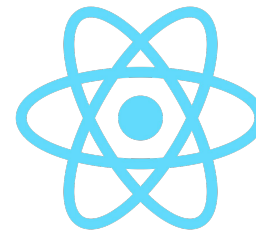
CDN (Cloudfront)



Lambda@Edge



Storage (S3)



SPA React



# Exemple Lambda@Edge

```
"use strict";

const contentSecurityPolicies = [
  "form-action 'self' https://secure.ogone.com https://ogone.test.v-psp.com",
  "frame-ancestors https://auth.example.com https://example.og4.me",
];

exports.handler = async (event) => {
  const response = event.Records[0].cf.response;
  const headers = response.headers;

  headers["Content-Security-Policy"] = [
    {
      key: "Content-Security-Policy",
      value: contentSecurityPolicies.join("; "),
    },
  ];

  return response;
};
```



# Next steps

- Gestion de la configuration
  - > pas de support de variables d'environnement, comment fait-on ?
- Réduire la boucle de feedback
  - > écrire des tests -> [exemple](#)
  - > autres solutions ?
- Génération et injection d'un *nonce* pour les scripts *inline* dans les CSP
  - > pour Google Tag Manager, etc



*There  
is  
a Better  
Way*