

Déployer Web Assembly Blazor sur AWS

La Technologie employée sur AWS s'appelle CloudFront, elle permet la mise en cache sur internet de fichier sur ce que l'on appelle des CDN.

Le Web Assembly Blazor sera déposé sur un bucket S3 avec un accès depuis le CloudFront.

Voici un exemple de YAML utilisé pour effectuer créer la configuration sur CloudFront.

```
AWSTemplateFormatVersion: '2010-09-09'
Description: '(Cloudfront-as-default-03) Simple CloudFront distribution with an S3 origin'

Parameters:
  S3BucketName:
    Type: String
    Default: Your S3 Bucket Name
    Description: Name of existing S3 bucket

  OAIEnabled:
    Type: String
    Default: "no"
    AllowedValues: ["yes", "no"]
    Description: Enable OAI (Access to bucket only through CloudFront)

Conditions:
  WithOAIEnabled: !Equals [!Ref "OAIEnabled", "yes"]
  WithoutOAIEnabled: !Equals [!Ref "OAIEnabled", "no"]

Resources:
  S3BucketPolicyWithA0I:
    Metadata:
```

Comment: 'Bucket policy to allow cloudfront to access the data'

Properties:

Bucket: !Ref S3BucketName

PolicyDocument:

Statement:

- Action:

- 's3:GetObject'

Effect: 'Allow'

Principal:

CanonicalUser: !GetAtt CfOriginAccessIdentity.S3CanonicalUserId

Resource:

- !Sub 'arn:aws:s3:::\${S3BucketName}/*'

Type: 'AWS::S3::BucketPolicy'

Condition: WithOAIEntabled

CfDistribution:

Type: "AWS::CloudFront::Distribution"

Condition: WithoutOAIEntabled

Metadata:

Comment: 'A simple CloudFront distribution with an S3 origin'

Properties:

DistributionConfig:

Comment: 'A simple distribution with an S3 origin'

DefaultCacheBehavior:

AllowedMethods:

- 'HEAD'

- 'GET'

CachedMethods:

- 'HEAD'

- 'GET'

Compress: false

DefaultTTL: 86400

ForwardedValues:

Cookies:

Forward: 'none'

Headers:

- 'Origin'

QueryString: false

MaxTTL: 31536000

MinTTL: 86400

```
    TargetOriginId: !Sub 's3-origin- ${S3BucketName}'
    ViewerProtocolPolicy: 'redirect-to-https'
DefaultRootObject: 'index.html'
Enabled: true
HttpVersion: 'http1.1'
IPV6Enabled: false
Origins:
  - DomainName: !Sub '${S3BucketName}.s3.amazonaws.com'
    Id: !Sub 's3-origin- ${S3BucketName}'
    S3OriginConfig: {}
PriceClass: 'PriceClass_All'
```

CfDistributionWithAOI:

```
Type: "AWS::CloudFront::Distribution"
Condition: WithOAIEnabled
Metadata:
  Comment: 'A simple CloudFront distribution with an S3 origin'
Properties:
  DistributionConfig:
    Comment: 'A simple distribution with an S3 origin'
    DefaultCacheBehavior:
      AllowedMethods:
        - 'HEAD'
        - 'GET'
      CachedMethods:
        - 'HEAD'
        - 'GET'
      Compress: false
      DefaultTTL: 86400
      ForwardedValues:
        Cookies:
          Forward: 'none'
        Headers:
          - 'Origin'
      QueryString: false
    MaxTTL: 31536000
    MinTTL: 86400
    TargetOriginId: !Sub 's3-origin- ${S3BucketName}'
    ViewerProtocolPolicy: 'redirect-to-https'
```

```
DefaultRootObject: 'index.html'
Enabled: true
HttpVersion: 'http1.1'
IPV6Enabled: false
Origins:
  - DomainName: !Sub '${S3BucketName}.s3.amazonaws.com'
    Id: !Sub 's3-origin-${S3BucketName}'
    OriginPath: ''
    S3OriginConfig:
      OriginAccessIdentity: !Sub 'origin-access-
identity/cloudfront/${CfOriginAccessIdentity}'
      PriceClass: 'PriceClass_All'

CfOriginAccessIdentity:
  Type: "AWS::CloudFront::CloudFrontOriginAccessIdentity"
  Condition: WithOAIEnabled
  Metadata:
    Comment: 'Access S3 bucket content only through CloudFront'
  Properties:
    CloudFrontOriginAccessIdentityConfig:
      Comment: 'Access S3 bucket content only through CloudFront'

Outputs:
  S3BucketName:
    Description: 'Bucket name'
    Value: !Ref S3BucketName
  CfDistributionWithOAI:
    Description: 'Id for our cloudfront distribution'
    Value: !Ref CfDistributionWithAOI
    Condition: WithOAIEnabled
  CfDistributionId:
    Description: 'Id for our cloudfront distribution'
    Value: !Ref CfDistribution
    Condition: WithoutOAIEnabled
  CfDistributionDomainNameWithOAI:
    Description: 'Domain name for our cloudfront distribution'
    Value: !GetAtt CfDistributionWithAOI.DomainName
    Condition: WithOAIEnabled
  CfDistributionDomainName:
    Description: 'Domain name for our cloudfront distribution'
```

Value: !GetAtt CfDistribution.DomainName

Condition: WithoutOAIEnabled

Revision #1

Created Wed, Mar 31, 2021 7:40 AM by [Nelson](#)

Updated Wed, Mar 31, 2021 7:45 AM by [Nelson](#)