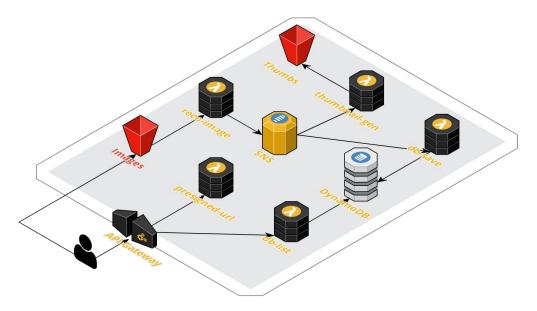
AWStack training - Serverless

Hands On #1 - S3 | IAM - Image bucket

Overview

This Hands-on is composed of 2 parts:

- 1. S3 Part: new S3 bucket to store images to analyze
- IAM Part : new IAM role shared by all Lambda function created over the training



Let's go! | S3 Part

Go to Virginia region

N. Virginia 🕶

Create a new S3 bucket having these properties:

- Bucket Name: serverless-training-img-<xxx>
- **Region**: US East (N.Virginia)

In order to upload images directly from the front-end web-ui, CORS has to be enabled on this bucket:

 Under Permissions > CORS Configuration, set the xml setting (see Hint 2 for xml template to use)

Context:

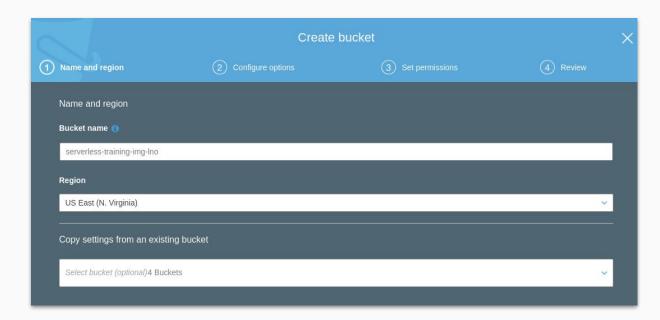
In this part we create the S3 bucket storing the images to be analyzed by the recognition function.

Documentation:

https://docs.aws.amazon.com/AmazonS3/la test/dev/Welcome.html

Once done -> Go to IAM Part

\$3 - Create a new bucket
"serverless-training-img-<xxx>"
(replace <xxx> by a unique id)



\$3 - Enable CORS from"Permissions" > "CORSConfiguration"

```
<?xml version="1.0" encoding="UTF-8"?>
<CORSConfiguration xmlns="http://s3.amazonaws.com/doc/2006-03-01/">
<CORSRule>
  <AllowedOrigin>*</AllowedOrigin>
  <AllowedMethod>POST</AllowedMethod>
  <MaxAgeSeconds>3000</MaxAgeSeconds>
  <AllowedHeader>*</AllowedHeader>
</CORSRule>
</CORSConfiguration>
```

Let's go! | IAM Part

Under IAM service, create a new role:

- Type of trusted entity: AWS Service
- Service: Lambda
- Create a New Policy using the JSON editor (see Hint 5 for JSON template to use)
- **Policy Name**: serverless_lambda_policy
- Role Name: serverless_lambda_role

Context:

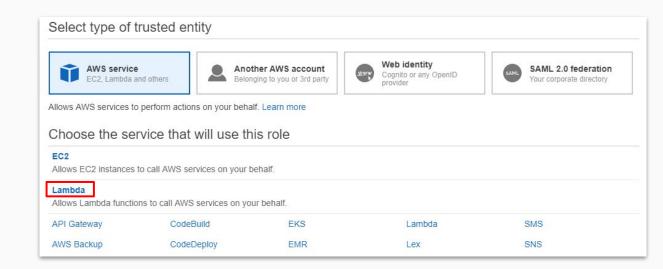
In this part we create the IAM role which will be used by all lambda functions created over further Hands-on.

<u>Remark</u>: this is not a best practice to create a unique role gathering all permissions. In actual production applications, we'd rather create a new role for each Lambda function.

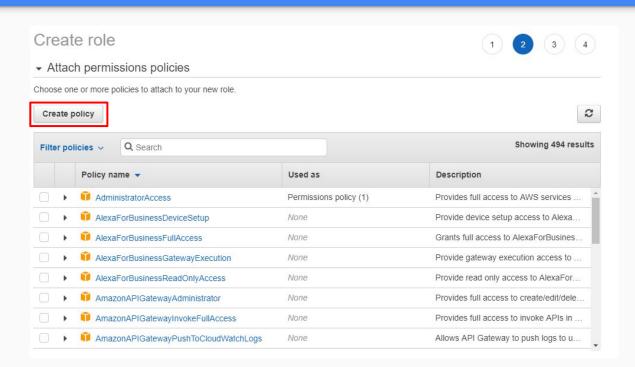
Documentation:

https://docs.aws.amazon.com/fr_fr/IAM/latest/UserGuide/introduction.html

IAM Role Creation - Create a new AWS Service Lambda role



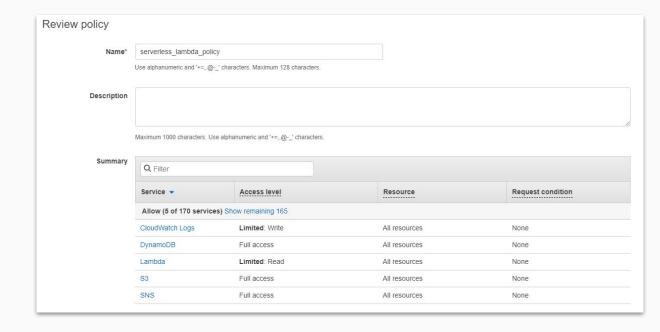
IAM Role Creation - Create a new policy



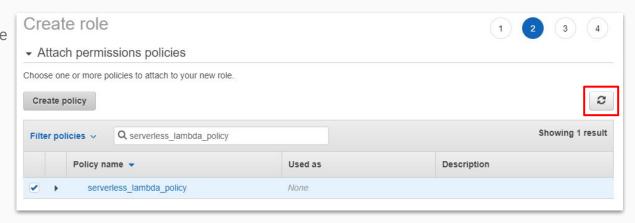
IAM Policy Creation - Open the "JSON" tab editor and paste the following policy

```
"Version": "2012-10-17",
"Statement": [
        "Effect": "Allow",
        "Action": [
            "logs:CreateLogGroup",
            "logs:CreateLogStream",
            "logs:PutLogEvents",
            "lambda:GetLayerVersion",
            "lambda:GetLayerVersionPolicy",
            "dynamodb:*"
        "Resource": "*"
```

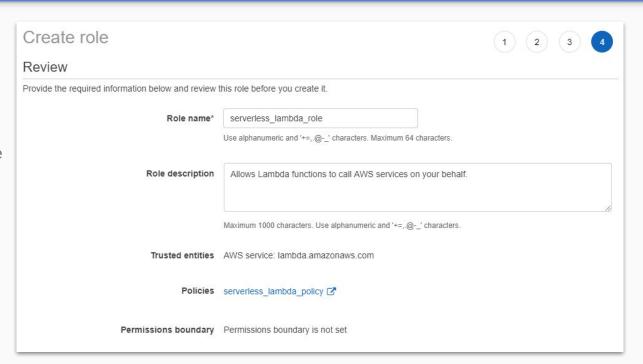
IAM Policy Creation - Review and create policy "serverless_lambda_policy"



IAM Role Creation - Go back on role creation page, refresh policy list and select the serverless_lambda_policy just created



IAM Role Creation - Assign the role name serverless_lambda_role, review and create it



Done!

No test to perform for this Hands-On!