Playwright with Python in AWS Lambda:

In server :

[] mkdir playwrite

[] cd playwrite

[] vi Dockerfile

FROM public.ecr.aws/lambda/python:3.8

Install system dependencies

RUN yum install -y libX11 libXcomposite libXcursor libXdamage libXext libXi libXrandr libXrender libXtst cups-libs libXScrnSaver libXau libXdmcp liberation-fonts

Install Node.js and npm

RUN curl -sL https://rpm.nodesource.com/setup_14.x | bash -

```
RUN yum install -y nodejs

# Install Playwright

RUN npm install -g playwright

# Copy your function code

COPY app.py ${LAMBDA_TASK_ROOT}

# Set the handler environment variable

ENV HANDLER app.handler

# Set the timeout

ENV AWS_LAMBDA_FUNCTION_TIMEOUT 300

# Run the Lambda handler

CMD ["app.handler"]
```

[] vi app.py

```
from playwright.sync_api import sync_playwright


def handler(event, context):
    with sync_playwright() as p:
        browser = p.chromium.launch(args=["--disable-gpu", "--single-process"])
        page = browser.new_page()
        page.goto("http://whatsmyuseragent.org/")
        print("finished")
        browser.close()
```

[] docker build – t my-lambda-function:latest .

[] docker images

Docker image to AWS ECR:

[] we need create ECR and IAM users and iam police permission and iam we need create access key

To create access key and secret key

[] in iam

[] select users

[] select which user want

[] select security credentials

[] scroll down

[] select **create access key**

[] select **command line interface**

[] select confirm

[] next

[] type description

[] create access key

[] download the .csv there we get keys / we can copy and paste the keys

we need give ECR full access permission for docker push

[]Open the AWS Management Console and navigate(search) to the IAM service.

[] Locate and select the IAM user to which you want to attach the policy.

[] In the user scroll down to the **"Permissions"** section.

[] in **“add permissions”** Click on the **"Add inline policy"** button .

In the policy editor, choose the **"JSON"** tab to enter the policy code.

Replace the existing policy code with the JSON code provided earlier

```
{"Version": "2012-10-17",
"Statement": [
{
"Effect": "Allow",
"Action":
["ecr:*"],
"Resource": "*"}]}
```

[] next

[] Provide a name for the policy in the **"Name"** field.
[] Click on **"Review policy"** to verify the policy details.
[]Finally, click on **"Create policy"** or **"Attach policy"** to attach the policy to the IAM user or role

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In server

[] sudo su -

[] apt-get update

[] apt-get install awscli

[] apt install awscli

[] apt install dnf

[] aws –version

[] **aws_access_key_id**=<access key> /

[] export AWS_ACCESS_KEY_ID=AKIASM6XNBZOTMTK2XXB

[] **aws_secret_access_key** = <secret key> /

[] export AWS_SECRET_ACESS_KEY=2k6RBd5B42CGuzA8XFuIhhte13V

[] aws ecr get-login-password --region region | docker login --username AWS --password-stdin aws_account_id.dkr.ecr.region.amazonaws.com

Region ---> which region we selected that one (ex us-east-1)

aws_account_id---> account id (165271113309)

Ex [] aws ecr get-login-password --region us-east-1 | docker login --username AWS --password-stdin 165271113309.dkr.ecr.us-east-1.amazonaws.com

[] docker images

[] docker tag <image_name>: <tag> <aws_account_id>.dkr.ecr.<region>.amazonaws.com/ <image_name>: <tag>

Ex [] docker tag my-lambda-function:latest 1**65271113309.dkr.ecr.us-east-1.amazonaws.com/playwright:latest (ECR url)**

[] docker push <aws_account_id>.dkr.ecr.<region>.amazonaws.com/ <image_name>: <tag>

Ex []docker push 165271113309.dkr.ecr.us-east-1.amazonaws.com/playwright:latest

[] docker pull ECR URL

Ex [] docker pull 165271113309.dkr.ecr.us-east-1.amazonaws.com/playwright:latest

#Build

[] docker build -t my-lambda-function .

#Tag image

[]docker tag my-lambda-function:latest <aws-acc-id>.dkr.ecr.<aws-region>.amazonaws.com/my-lambda-function:latest

Login to amazon ECR

[]aws ecr get-login-passwd --region <aws-region> | docker login --username AWS --password-stdin <aws-acc-id>.dkr.ecr.<your-aws-region>.amazonaws.com/my-lambda-function

push image to Amazon ECR

[] docker push <your-aws-account-id>.dkr.ecr.<aws-region>.amazonaws.com/my-lambda-function:latest