

## POC for TLDR using DOCKER and AWS

Following are steps for back-end dev using AWS and Docker.

We developed the app and use SAM to upload it to cloud.

This application uses a basic model which has been finetuned. We use postman to send request to API gateway.

We first install AWS CLI and AWS SAM cli

### sam-nightly init

open the folder in Visual studio code

And create hello-world template

Use memorysize of 3008

We make changes to requirements.txt, Dockerfile, app.py and placed the model in the hello-world folder. Change get to post

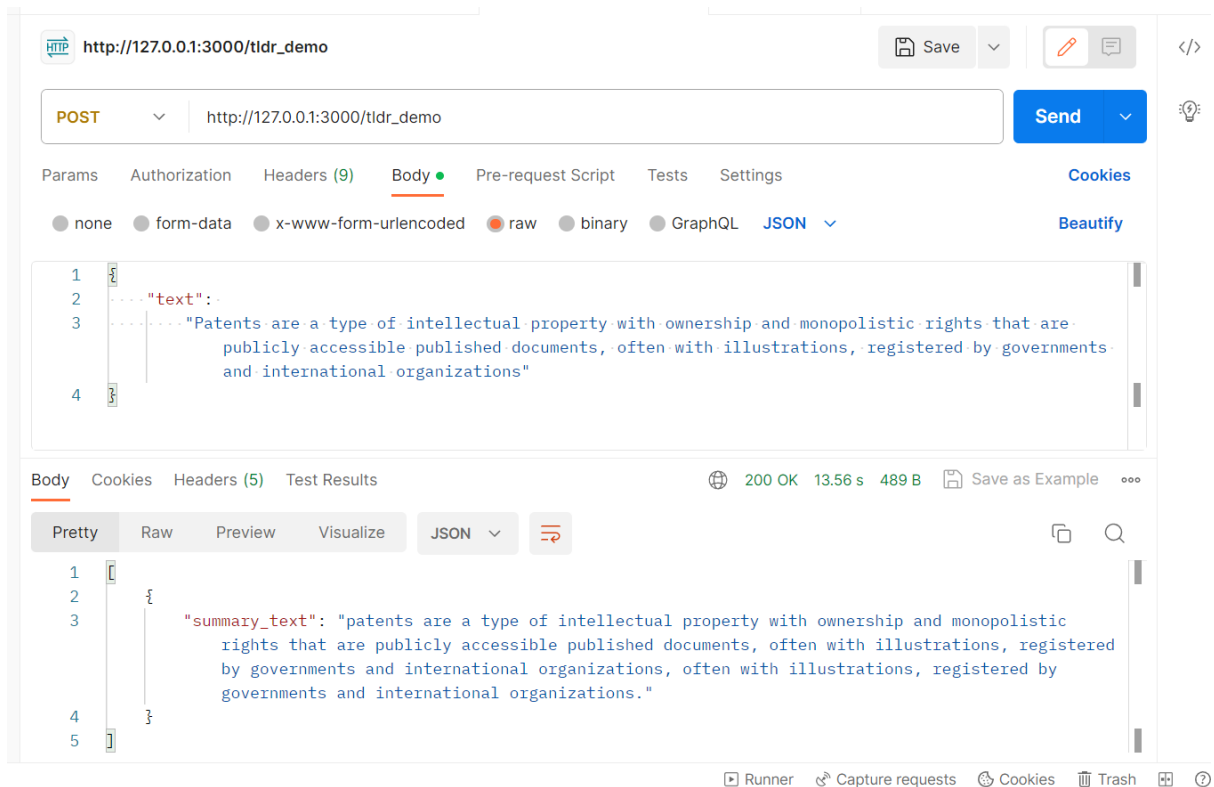
### cd tldr\_demo

we run **sam-nightly build**

```
(testenv) C:\Users\home\Downloads\Final Semester Project\tldr_demo>sam-nightly build
Building codeuri: C:\Users\home\Downloads\Final Semester Project\tldr_demo runtime: None metadata: {'Dockerfile':
'Dockerfile', 'DockerContext': 'C:\Users\home\Downloads\Final Semester Project\tldr_demo\hello_world', 'DockerTag':
'python3.10-v1'} architecture: x86_64 functions: HelloWorldFunction
Building image for HelloWorldFunction function
Setting DockerBuildArgs: {} for HelloWorldFunction function
Step 1/5 : FROM public.ecr.aws/lambda/python:3.10
3.10: Pulling from lambda/python
3d03dde9ded6: Pull complete
abeac2522dec: Pull complete
dbe66dd9d9d5: Pull complete
1c13ed764ff2: Pull complete
63cb9d715d76: Pull complete
63e822183613: Pull complete
Status: Downloaded newer image for public.ecr.aws/lambda/python:3.10 ---> 528a9fd27680
Step 2/5 : COPY app.py requirements.txt ./
---> 1a5c6726d281
Step 3/5 : COPY model /opt/ml/model
---> d0aa2bddf2a7
Step 4/5 : RUN python3.10 -m pip install -r requirements.txt -t .
---> 410b95f4100
```

sam-nightly local start-api

```
Containers Initialization is done.
Mounting HelloWorldFunction at http://127.0.0.1:3000/tldr_demo [GET]
You can now browse to the above endpoints to invoke your functions. You do not need to restart/reload SAM CLI while
working on your functions, changes will be reflected instantly/automatically. If you used sam build before running local
commands, you will need to re-run sam build for the changes to be picked up. You only need to restart SAM CLI if you
update your AWS SAM template
2023-06-18 19:06:55 WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI serv
er instead.
* Running on http://127.0.0.1:3000
2023-06-18 19:06:55 Press CTRL+C to quit
□
```



We have made a request from POSTMAN and received a response from LLM.

Challenge:

1. We need to make sure stack name does not have underscores.
2. We need to give full s3 access to iam user.

Load into AWS:

sam-nightly deploy --guided

once AWS services are launched.

Go to postman and send request.

It will fail a few times since lambda is starting.

We put the api end point on postman and send request.

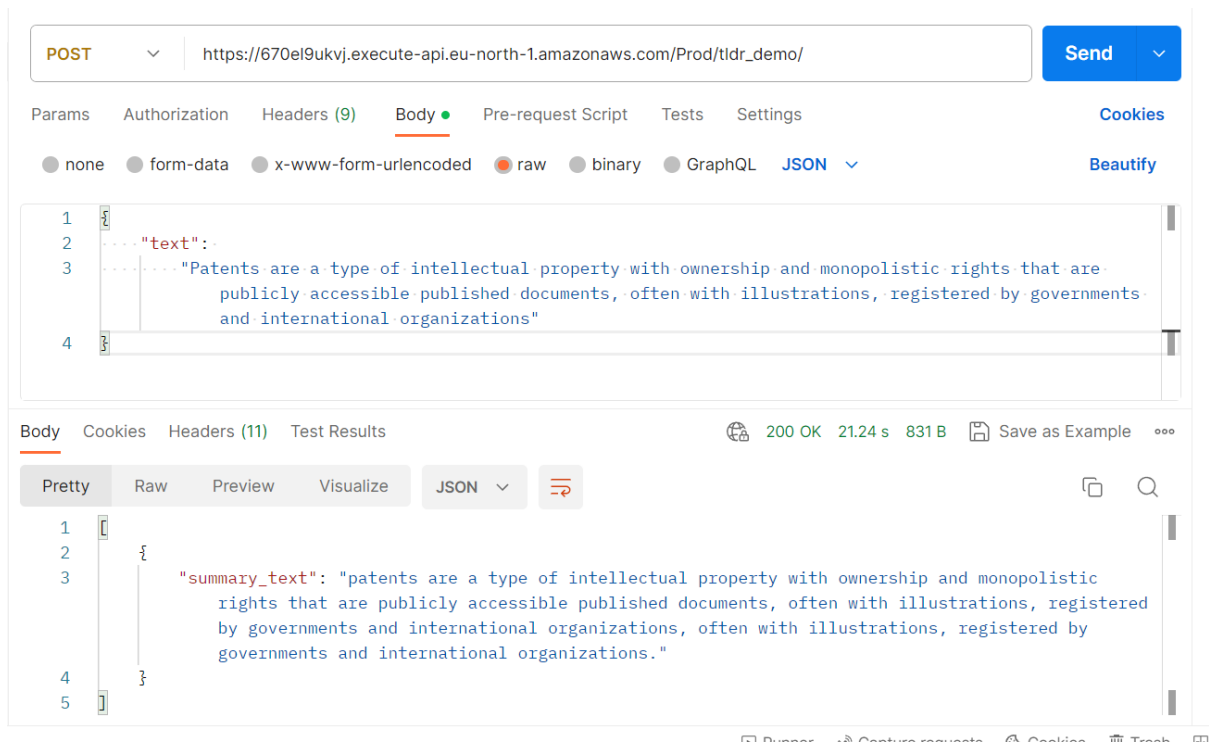
We can delete the stack using

sam-nightly delete --stack-name tldr-demo

```
(testenv) C:\Users\home\Downloads\Final Semester Project\tldr_demo>sam-nightly delete --stack-name tldr-demo
Are you sure you want to delete the stack tldr-demo in the region eu-north-1 ? [y/N]: y
Found ECR Companion Stack tldr-demo-51e08215-CompanionStack
Do you want to delete the ECR companion stack tldr-demo-51e08215-CompanionStack in the region eu-north-1 ? [y/N]: y
ECR repository tldrdemo51e08215/helloworldfunction19d43fc4repo may not be empty. Do you want to delete the repository a
nd all the images in it ? [y/N]: y
- Deleting ECR repository tldrdemo51e08215/helloworldfunction19d43fc4repo
- Deleting ECR Companion Stack tldr-demo-51e08215-CompanionStack
- Deleting Cloudformation stack tldr-demo

Warning: Cannot resolve s3 bucket information from command options , local config file or cloudformation template. Please use -
-s3-bucket next time and delete s3 files manually if required.

Deleted successfully
```



POST ▼ [https://670e19ukvj.execute-api.eu-north-1.amazonaws.com/Prod/tldr\\_demo/](https://670e19ukvj.execute-api.eu-north-1.amazonaws.com/Prod/tldr_demo/) Send ▼

Params Authorization Headers (9) **Body** ● Pre-request Script Tests Settings Cookies

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL ● JSON ▼ Beautify

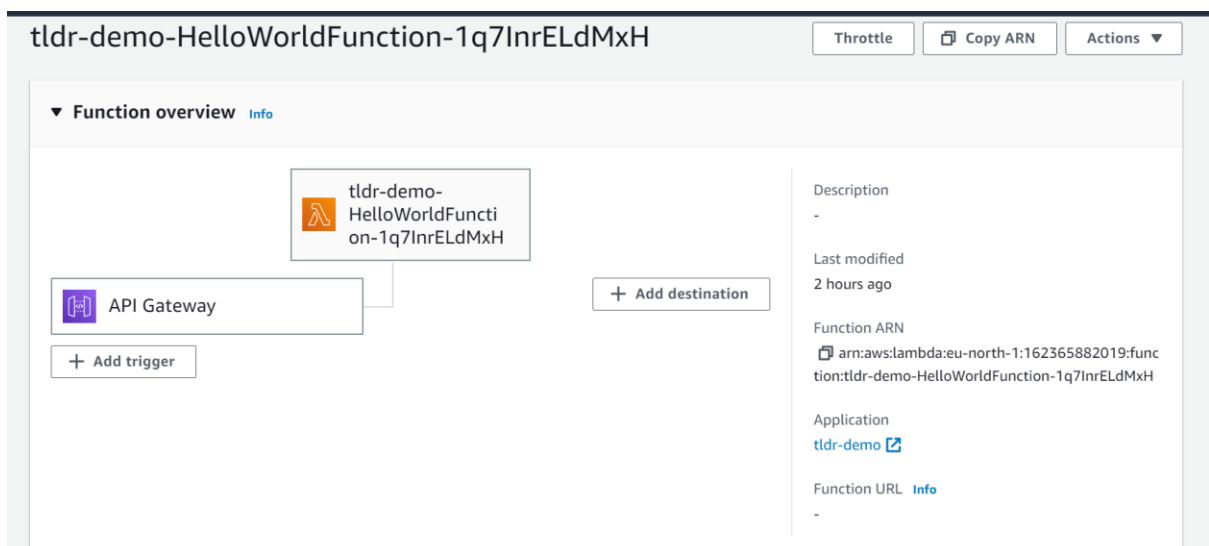
```
1 {
2   "text": "
3     \"Patents are a type of intellectual property with ownership and monopolistic rights that are
4     publicly accessible published documents, often with illustrations, registered by governments
       and international organizations\"
5 }
```

Body Cookies Headers (11) Test Results 200 OK 21.24 s 831 B Save as Example ⋮

Pretty Raw Preview Visualize JSON ▼ 🔍


```
1 {
2   "summary_text": "patents are a type of intellectual property with ownership and monopolistic
3     rights that are publicly accessible published documents, often with illustrations, registered
4     by governments and international organizations, often with illustrations, registered by
5     governments and international organizations."
6 }
```


Lambda:



tldr-demo-HelloWorldFunction-1q7InrELdMxH Throttle Copy ARN Actions ▼


▼ **Function overview** [Info](#)


 API Gateway + Add trigger

 tldr-demo-HelloWorldFunction-1q7InrELdMxH + Add destination

Description  
-

Last modified  
2 hours ago

Function ARN  
 [arn:aws:lambda:eu-north-1:162365882019:function:tldr-demo-HelloWorldFunction-1q7InrELdMxH](#)

Application  
[tldr-demo](#) 

Function URL [Info](#)  
-

Cloudwatch:

[CloudWatch](#) > [Log groups](#) > /aws/lambda/tldr-demo-HelloWorldFunction-1q7InrELdMxH

## /aws/lambda/tldr-demo-HelloWorldFunction-1q7InrELdMxH

Actions ▾

View in Logs Insights

Start tailing

Search log group

▼ Log group details

ARN

arn:aws:logs:eu-north-1:162365882019:log-group:/aws/lambda/tldr-demo-HelloWorldFunction-1q7InrELdMxH:\*

Creation time

6 minutes ago

Retention

Never expire

Stored bytes

Metric filters

0

Subscription filters

0

Contributor Insights rules

-

Data protection

-

Sensitive data count

-

KMS key ID

-

Log streams

Metric filters

Subscription filters

Contributor Insights

Tags

Data protection

Log streams (2)

⌂

Delete

Create log stream

Search all log streams

☐ Exact match

☐ Show expired

[Info](#)

< 1 >

⚙

<input type="checkbox"/>	Log stream ▾	Last event time ▾
<input type="checkbox"/>	2023/06/19/[\$LATEST]95106b84c0724227a2ac3ca891716...	2023-06-19 14:05:06 (UTC+01:00)
<input type="checkbox"/>	2023/06/19/[\$LATEST]8c546f7cf4a943618858a3f07795f953	2023-06-19 14:04:44 (UTC+01:00)

S3:

Buckets (3) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

⌂

Copy ARN

Empty

Delete

Create bucket

< 1 > ⚙

	Name ▲	AWS Region ▾	Access ▾	Cr
<input type="radio"/>	aws-sam-cli-managed-default-samclisourcebucket-1o26wp9l44drp	EU (Stockholm) eu-north-1	Bucket and objects not public	Ju
			Bucket	

Api gateway:

Amazon API Gateway

APIs > tldr-demo (670el9ukvj) > Resources > /tldr\_demo (y7r5rw) > POST

Hide hints ?

APIs

Custom Domain Names

VPC Links

API: tldr-demo

Resources

Stages

Authorizers

Gateway Responses

Models

Resource Policy

Documentation

Resources

Actions

/tldr\_demo - POST - Method Execution

TEST

Client

Method Request

Auth: NONE  
ARN: arn:aws:execute-api:eu-north-1:162365882019:670el9ukvj/\*/\*

Integration Request

Type: LAMBDA\_PROXY

Method Response

Select an integration response.

Integration Response

Proxy integrations cannot be configured to transform responses.

Lambda tldr-demo-HelloWorldFunction-1q7InELdMkX

CloudShell

Feedback

Language

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