Group 5: Assignment11

Projects in Machine Learning - INFO8665

Applied Artificial Intelligence and Machine Learning Program, Conestoga College Sec2

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1. Docker secret

First of all we create docker secret like below

```
docker swarm init
echo "xapp-1-A074H8NQJ23-7181182531969-
ed57de8747a48f5b53253db1feb7d8af61c7ea65ef1d5773c959340e6ae73a74" | docker secret
create slack_app_token -
echo "xoxb-7151988919749-7191456940736-UfM4CI9M77fjaWxjS2dgrRHC" | docker secret
create slack_bot_token -
echo "https://onlyxool.atlassian.net" | docker secret create jira_url -
echo "ATATT3xFfGF0QE39cPvrUolx3dntf1ALh1FwXdru14b-
cpgnzFDwphVoXBSKRBfMK0VgpPvWNK_n-ckesbuAtkT0e8dgS08tCGH-GC1E1jHPnlEBObLBCZdk0q8-
OXG 9XJn6BMvkytjpLnw3pmFAe1jgIpChtGta7_lyqQ50eu-AHG-04wGsjns=E0E476F1" | docker
secret create api_token -
echo "onlyxool@gmail.com" | docker secret create email -
echo "pomzyppm" | docker secret create flask_secret_key -
```

```
Kyles-MacBook-Pro:AI-Scrum-Master onlyxool$ docker secret ls
                            NAME
                                                          CREATED
                                                                            UPDATED
kwevidar24jem1zq307s4y06u
                            api_token
                                                          29 seconds ago
                                                                            29 seconds ago
wgi9btaz5j9462t3tab6l4xgc
                            email
                                                             seconds ago
                                                                            29 seconds ago
Bĺsle86evý8jcl078koggvsiv
                            flask_secret_key
                                                          27 seconds ago
                                                                            27 seconds ago
aenejzfkwncpx8ka5toe57ve9
                                                             seconds ago
                            iira url
                                                                            29 seconds ago
ız2lthkfp57klkq5s4q93yvnr
                            slack_app_token
                                                          29 seconds ago
                                                                            29 seconds ago
jrd1g84wmd5itby3bzh1uhday
                            slack_bot_token
                                                                            29 seconds
```

Then we make sure read secret informat from /run/secrets/

```
import os
def read_secret(secret_name):
     secret_path = f
     if os.path.exists(secret_path):
         with open(secret_path,
                                      ') as file:
              return file.read().strip()
     else:
         raise FileNotFoundError(f"Secret {secret_name} not found.")
SLACK_APP_TOKEN = read_secret('slack_app_token'
SLACK_BOT_TOKEN = read_secret('slack_bot_token'
SLACK_BOT_TOKEN = read_secret(
JIRA_URL = read_secret(
                                      ')
                                  token')
API_TOKEN = read_secret(
EMAIL = read_secret('
FLASK_SECRET_KEY = read_secret('flask
```

Finally we run docker container as service and mount the secrets to the container like below

```
docker service create -p 7804:80 --name AI_Scrum_Assistant \
    --secret slack_app_token \
    --secret slack_bot_token \
    --secret jira_url \
    --secret api_token \
    --secret email \
    --secret flask_secret_key \
    onlyxool/ai-scrum-assistant:latest
```

After docker service start, it will take about 2 mins to download language model(The actual time depends on internet speed). After download finish, everything will all set.

We can use below command to check if the language model download finish.

```
docker ps -a #display all docker container id docker attach <container id>
```

2. Screenshots of the application running locally

Running locally:

```
P(aiscrum) Kyles-MacBook-Pro:AI-Scrum-Master onlyxool$ python start.py
DEBUG:root:Start...

* Serving Flask app 'flaskapp.app'

* Debug mode: off
INFO:werkzeug:WARNING: This is a development server. Do not use it in a produc

* Running on http://127.0.0.1:5000
INFO:werkzeug:Press CTRL+C to quit
Error sending message to U075QC694N4: time_in_past
Error sending message to U074ZR41109: time_in_past
Error sending message to U075E7VDC01: time_in_past
Error sending message to #project: time_in_past
Error sending message to #project: time_in_past

★ Bolt app is running!
```