For script

The random\_base32() function generates a random base32-encoded string that serves as the secret key for OTP generation.

We then create an instance of pyotp.TOTP using the generated secret key. The TOTP class represents a time-based one-time password.

Then we call the now() method on the TOTP instance to generate the current OTP based on the secret key, and we return this OTP.

In the last few lines, we call the generate\_otp() function to generate an OTP and assign it to the variable otp. We then print the generated OTP to the console using print().

Python3 script.py to run script

DOCKERFILE

Base image for docker container

Workdir means any subsequent commans will be executed in this directory

The copy copies the req.txt file from the local direc. To the current one. The dot represents the current one

he RUN instruction executes a command inside the container during the build process. In this case, it runs the command pip install --no-cache-dir -r requirements.txt, which installs the Python packages specified in the requirements.txt file. The --no-cache-dir flag tells pip not to cache the downloaded packages.

Copy to copy directories

Cmd is used to run the command when the container starts

Req file

The pytop and docker ensure the pytop and docker files are installed when we run the container.

Sdk file

Import docker – allows interaction with the docker engine through the sdk

Client –

Logs

These lines retrieve the logs from the container and print them

This code sets up a Docker client, builds a Docker image, runs a Docker container, and retrieves the container logs.

Sudo python3 con.py to run sdk file