

# CONTAINERIZE THE APP

Team ID: PNT2022TMID27137

Project Nam: PERSONAL EXPENSE TRACKER APPLICATION

The screenshot shows the Docker Desktop application window. The left sidebar contains navigation options: Containers, Images, Volumes, Dev Environments, and Extensions. The main area displays the 'Inspect' tab for a container named 'webpage' (mohansai2008/personalexpende). The 'Environment' section lists various system variables: PATH, LANG, GPG\_KEY, PYTHON\_VERSION, PYTHON\_PIP\_VERSION, PYTHON\_GET\_PIP\_URL, and PYTHON\_GET\_PIP\_SHA256. The 'Port' section shows a mapping from 5000/tcp to 0.0.0.0:5000. The bottom status bar indicates RAM usage (2.84GB), CPU usage (0.07%), and connection to the Docker Hub.

Variable	Value
PATH	/usr/local/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
LANG	C.UTF-8
GPG_KEY	E3FF2839C048B25C084DEBE9B26995E310250568
PYTHON_VERSION	3.9.5
PYTHON_PIP_VERSION	21.1.3
PYTHON_GET_PIP_URL	https://github.com/pypa/get-pip/raw/a1675ab6c2bd898ed82b1f58c486097f763c74a9/public/get-pip.py
PYTHON_GET_PIP_SHA256	6665659241292b2147b58922b9ffe11dda66b39d52d8a6f3aa310bc1d60ea6f7

Port	Host Port
5000/tcp	0.0.0.0:5000

The screenshot shows a Windows Command Prompt window with the output of a Docker build command. The output displays the progress of building the container image, including the resolution of dependencies and the extraction of layers. The build process is completed successfully, and the image is named 'mohansai2008/personalexpende'.

```
C:\Users\ompra\OneDrive\Desktop\test>docker build -t mohansai2008/personalexpende .
[+] Building 172.8s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 32B
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.9.5
=> [internal] load build context
=> transferring context: 899B
=> [1/5] FROM docker.io/library/python:3.9.5@sha256:2ff7f45e91d05fc36bee74e48692a5b1877c973a040ed2468aef4223edf9ccac
=> resolve docker.io/library/python:3.9.5@sha256:2ff7f45e91d05fc36bee74e48692a5b1877c973a040ed2468aef4223edf9ccac
=> sha256:5397e0aa0677c214b0db6efec9c8ec407e6a0f60715a7db1326e6b8c2b3fd37 2.22kB / 2.22kB
=> sha256:a110e58716600c199fc95f633b30735c33a25b5adcfb16d1d7edcb78a3f1b62 7.83MB / 7.83MB
=> sha256:2ff7f45e91d05fc36bee74e48692a5b1877c973a040ed2468aef4223edf9ccac 2.36kB / 2.36kB
=> sha256:9b0d330d4f02a80938072b19a24eef31064bc32a6d2d4fca7468778421c787 8.35kB / 8.35kB
=> sha256:0bc3020d05f1e08b41f1c5d54650a157b1690cde7fedb1fa1bc9cda70ee2ec5c 50.44MB / 50.44MB
=> sha256:83d3c0fa203acbad733bffe27daa75b04c97f9d0553bcd967a3f1d37471277 10.00MB / 10.00MB
=> sha256:a8f409c11b021b756b7a92a4f78a3d444ce7e63a1c24e5749d236dc2c6e68514 51.84MB / 51.84MB
=> sha256:14feb09c4a52c44f0a7e23a46ebb76e1c25c4b2915a39656a3ab634c74bcdad6 192.39MB / 192.39MB
=> sha256:70752631d778db8afc4417df8478b1db077e659a5b59a4e33ad1ff28e818f1d3 6.15MB / 6.15MB
=> extracting sha256:0bc3020d05f1e08b41f1c5d54650a157b1690cde7fedb1fa1bc9cda70ee2ec5c
=> extracting sha256:a110e58716600c199fc95f633b30735c33a25b5adcfb16d1d7edcb78a3f1b62
=> extracting sha256:83d3c0fa203acbad733bffe27daa75b04c97f9d0553bcd967a3f1d37471277
=> sha256:bdcfcef19326dc8417726fb6627b3c648260288847e76ffd34ca10e74a606fb 19.19MB / 19.19MB
=> extracting sha256:a8f409c11b021b756b7a92a4f78a3d444ce7e63a1c24e5749d236dc2c6e68514
=> sha256:b51fbc03c35e608c16ec4ebba99347e209525c623b21ac91d441bc82311f139 233B / 233B
=> sha256:b6ea579bfc9cc167aad37696c82809632ace9c390d4424c919b8eaa71e9021 2.35MB / 2.35MB
=> extracting sha256:14feb09c4a52c44f0a7e23a46ebb76e1c25c4b2915a39656a3ab634c74bcdad6
=> extracting sha256:70752631d778db8afc4417df8478b1db077e659a5b59a4e33ad1ff28e818f1d3
=> extracting sha256:bdcfcef19326dc8417726fb6627b3c648260288847e76ffd34ca10e74a606fb
=> extracting sha256:b51fbc03c35e608c16ec4ebba99347e209525c623b21ac91d441bc82311f139
=> extracting sha256:b6ea579bfc9cc167aad37696c82809632ace9c390d4424c919b8eaa71e9021
=> [2/5] WORKDIR /app
=> [3/5] COPY requirements.txt ./
=> [4/5] RUN pip install -r requirements.txt
=> [5/5] COPY . .
=> exporting to image
=> exporting layers
=> writing image sha256:3a8e14103bf840081ccccbf8150f6eaf4d89c701a6fa4182942f049e5e6d0
=> naming to docker.io/mohansai2008/personalexpende

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\ompra\OneDrive\Desktop\test>
```

The image shows the Docker Desktop application window. The top bar includes 'Docker Desktop' and an 'Upgrade plan' button. The left sidebar has navigation options: 'Containers' (selected), 'Images', 'Volumes', 'Dev Environments' (with a 'BETA' badge), 'Extensions' (with a 'BETA' badge), and 'Add Extensions'. The main area is titled 'Containers' with a 'Give feedback' link. Below the title is a description: 'A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more'. A toggle switch is set to 'Only show running containers'. A search bar is present. A table lists containers with columns: NAME, IMAGE, STATUS, PORT(S), STARTED, and ACTIONS. Two containers are shown: 'webpage' (Running) and 'relaxed\_wu' (Exited (255)). The bottom status bar shows system metrics (RAM 2.84GB, CPU 0.06%), connection status (Connected to Hub), a screen sharing notification, and system tray icons including battery (84%), network, and language (ENG). The Windows taskbar is visible at the very bottom.