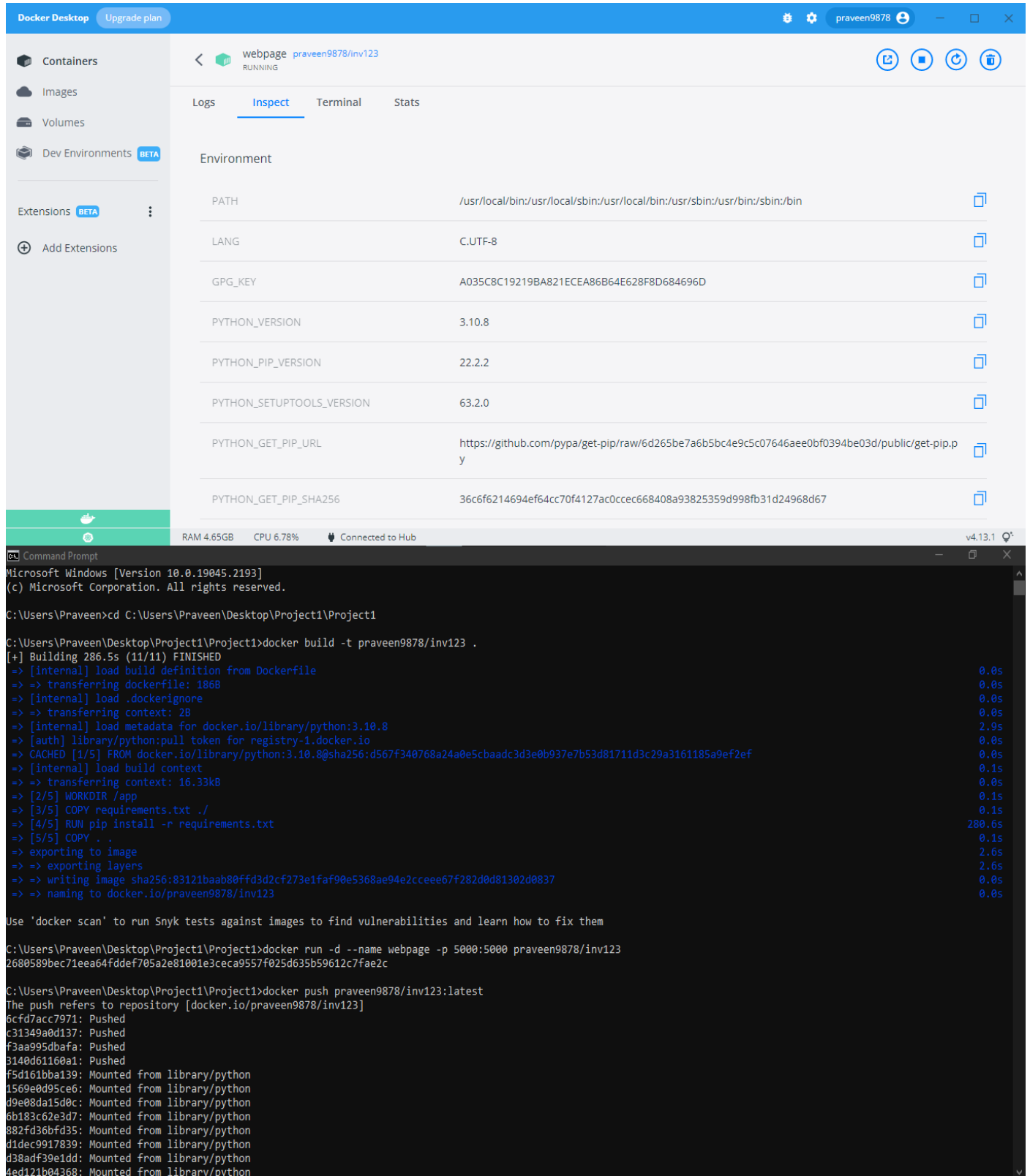


Creating Docker image for Flask app

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Project Name Project - Inventory Management System for Retailers



The screenshot displays the Docker Desktop application interface. On the left sidebar, the 'Containers' section is active, showing a list of containers. The main panel displays the 'Inspect' tab for a container named 'webpage' (praveen9878/inv123). The 'Environment' section lists various environment variables:

Variable	Value
PATH	/usr/local/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
LANG	C.UTF-8
GPG_KEY	A035C8C19219BA821ECEA86B64E628F8D684696D
PYTHON_VERSION	3.10.8
PYTHON_PIP_VERSION	22.2.2
PYTHON_SETUPTOOLS_VERSION	63.2.0
PYTHON_GET_PIP_URL	https://github.com/pypa/get-pip/raw/6d265be7a6b5bc4e9c5c0764aee0bf0394be03d/public/get-pip.py
PYTHON_GET_PIP_SHA256	36c6f6214694ef64cc70f4127ac0ccce668408a93825359d998fb31d24968d67

Below the environment variables, the system status is shown: RAM 4.65GB, CPU 6.78%, and Connected to Hub. At the bottom, a Command Prompt window is open, showing the following commands and output:

```
C:\Users\Praveen>cd C:\Users\Praveen\Desktop\Project1\Project1

C:\Users\Praveen\Desktop\Project1\Project1>docker build -t praveen9878/inv123 .
[+] Building 286.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 186B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.10.8
=> [auth] library/python:pull token for registry-1.docker.io
=> CACHED [1/5] FROM docker.io/library/python:3.10.8@sha256:d567f340768a24a0e5c8aadc3d3e0b937e7b53d81711d3c29a3161185a9ef2ef
=> [internal] load build context
=> => transferring context: 16.33kB
=> [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 sha256:83121baab80ffd3d2cf273e1faf90e5368ae94e2ccee67f282d0d81302d0837
=> => naming to docker.io/praveen9878/inv123

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\Users\Praveen\Desktop\Project1\Project1>docker run -d --name webpage -p 5000:5000 praveen9878/inv123
2680589bec71eea64fddef705a2e81001e3ceca9557f025d635b59612c7fae2c

C:\Users\Praveen\Desktop\Project1\Project1>docker push praveen9878/inv123:latest
The push refers to repository [docker.io/praveen9878/inv123]
6cfd7acc7971: Pushed
c31349a0d137: Pushed
f3aa995dbafa: Pushed
3140d61160a1: Pushed
f5d161bba139: Mounted from library/python
1569e0d95ce6: Mounted from library/python
d9e08da15d0c: Mounted from library/python
6b183c62e3d7: Mounted from library/python
882fd36bfd35: Mounted from library/python
d1dec9917839: Mounted from library/python
d38adf39e1dd: Mounted from library/python
4ed121b04368: Mounted from library/python
```

```
Command Prompt
d38adf39e1dd: Mounted from library/python
4ed121b04368: Mounted from library/python
d9d07d703dd5: Mounted from library/python
latest: digest: sha256:5e73cc8f770a546eda25f53f99b0b6411f63ab43d71e72ccd11fb2e72cc39af8 size: 3054

C:\Users\Praveen\Desktop\Project1\Project1>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Plug-in 'container-registry 1.0.2' was already installed. Do you want to update it with 'container-registry[cr] 1.0.2' or not? [y/N] > y
Attempting to download the binary file...
 11.90 MiB / 11.90 MiB [=====] 100.00% 3s
12476416 bytes downloaded
Installing binary...
OK
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\Praveen\bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its details.

C:\Users\Praveen\Desktop\Project1\Project1>ibmcloud login -a https://cloud.ibm.com
API endpoint: https://cloud.ibm.com



Email> 310819106062@smartinternz.com

Password>
Authenticating...
Credentials were rejected.
Code: BXNIM0602E, message: The credentials you entered for the user '310819106062@smartinternz.com' are incorrect.

Password>
Authenticating...
Credentials were rejected.
Code: BXNIM0602E, message: The credentials you entered for the user '310819106062@smartinternz.com' are incorrect.

Password>
Authenticating...
Credentials were rejected.
Code: BXNIM0602E, message: The credentials you entered for the user '310819106062@smartinternz.com' are incorrect.

API endpoint: https://cloud.ibm.com
Region:
Not logged in.
FAILED
Unable to authenticate.
```



INVENTORY MANAGEMENT

About:

Inventory management refers to the process of ordering, storing, using, and selling a company's inventory. This includes the management of raw materials, components, and finished products, as well as warehousing and processing of such items.

Effective inventory management enables businesses to balance the amount of inventory they have coming in and going out. The better a business controls its inventory, the more money it can save in business operations.

A business that has too much stock has overstock. Overstocked businesses have money tied up in inventory, limiting cash flow and potentially creating a budget deficit. This overstocked inventory, which is also called dead stock, will often sit in storage, unable to be sold, and eat into a business's profit margin.

Globalization, technology and empowered consumers are changing the way businesses manage inventory. Supply chain operators will use technologies that provide significant insights into how supply chain performance can be improved. They'll anticipate anomalies in logistics costs and performance before they occur and have