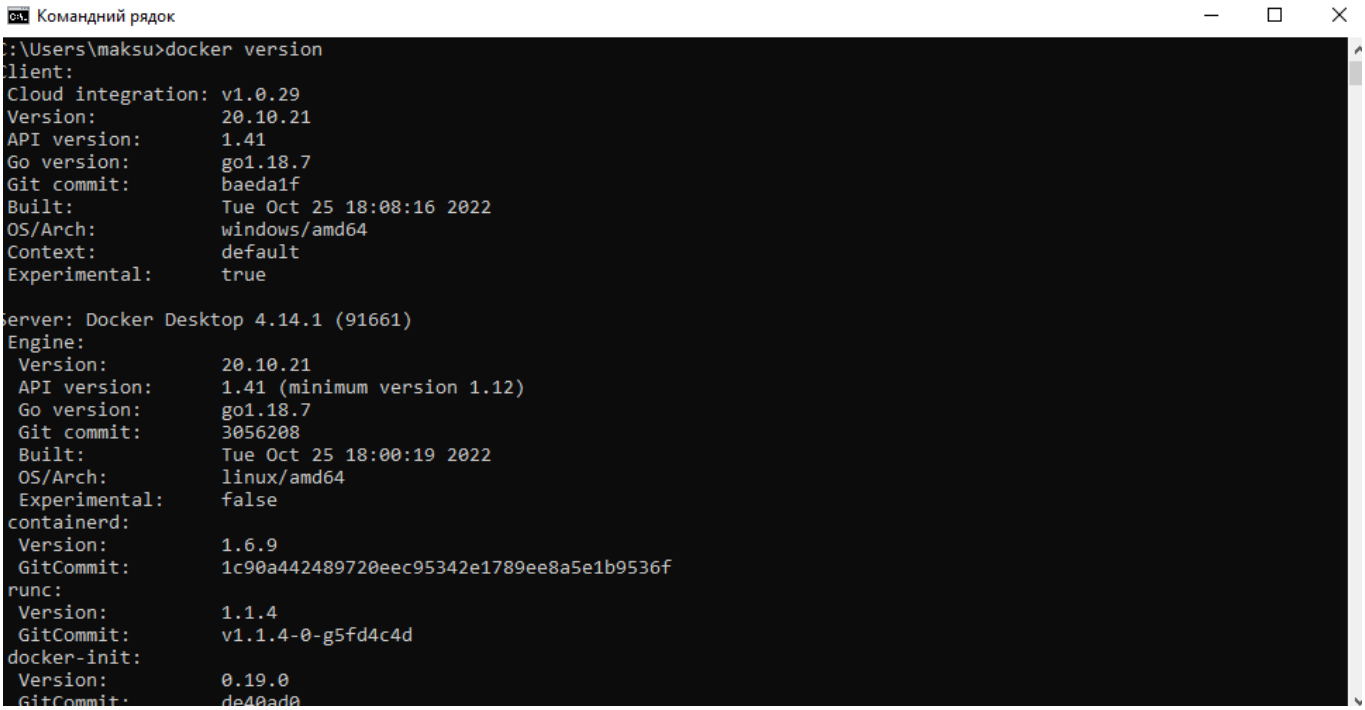
Лабораторна робота 4.2

Тема: Робота з системою Docker.

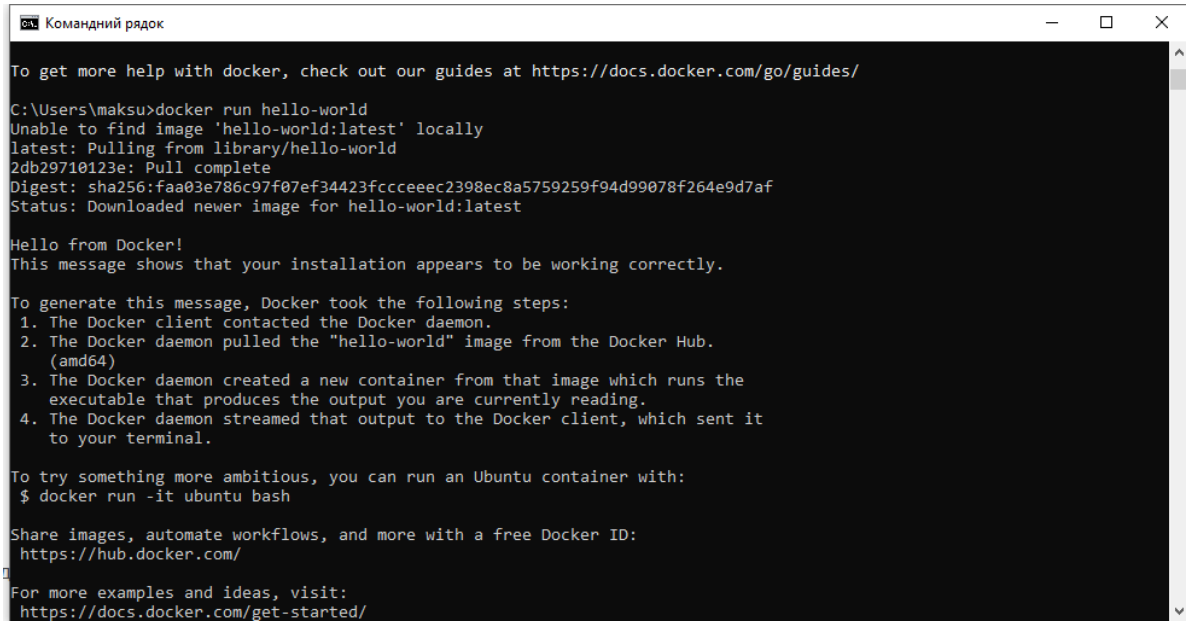
Мета: Оволодіти базовими навичками по роботі з сучасними системами керування контейнерами.

Хід роботи

1. **Ознайомився з теоретичними відомостями.**
2. **Скачав та встановив Docker.**
3. **Зареєструвався на сайті Docker.**
4. **Перевірив наявність Docker в консолі.**
5. **Перевірив версію Docker.**

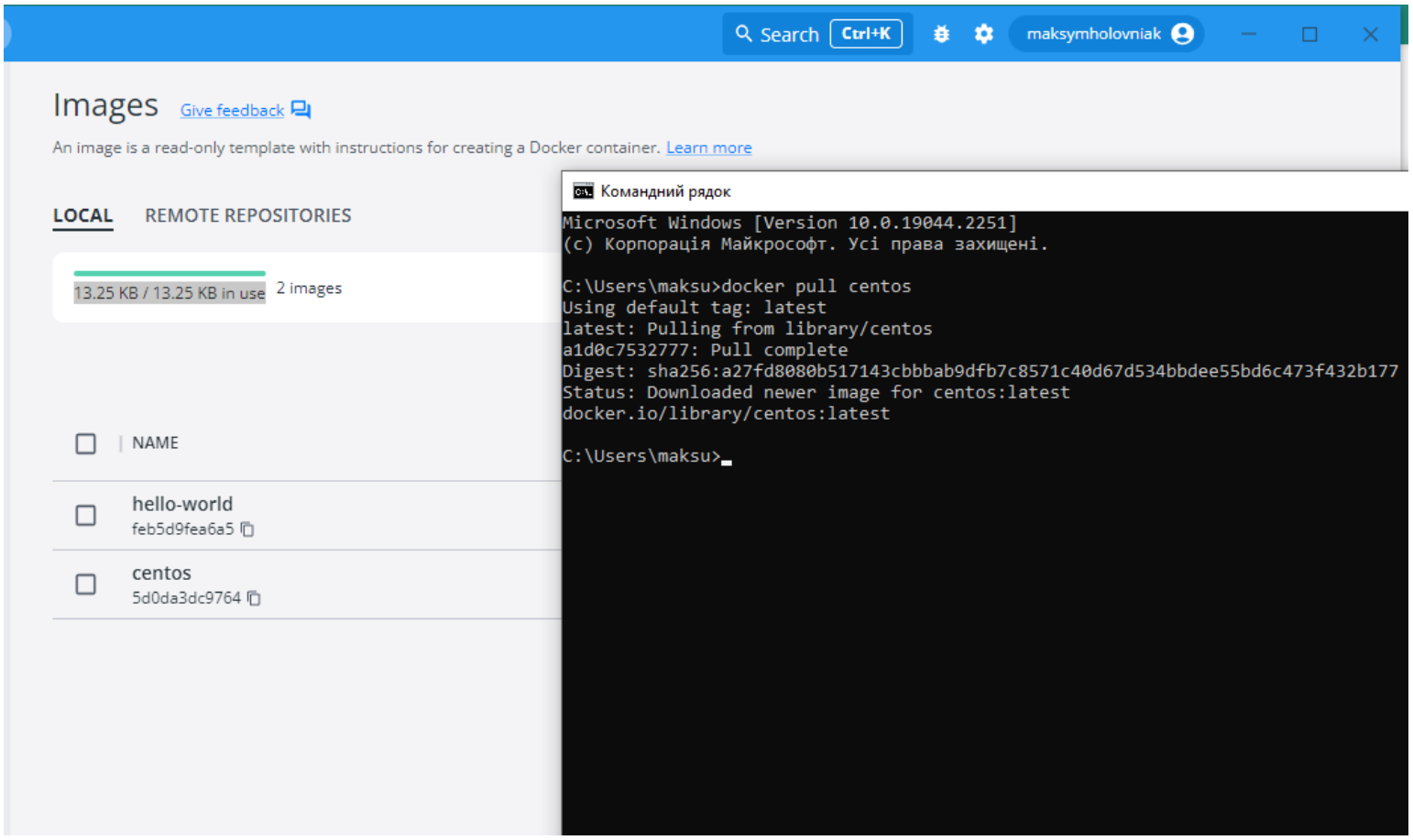


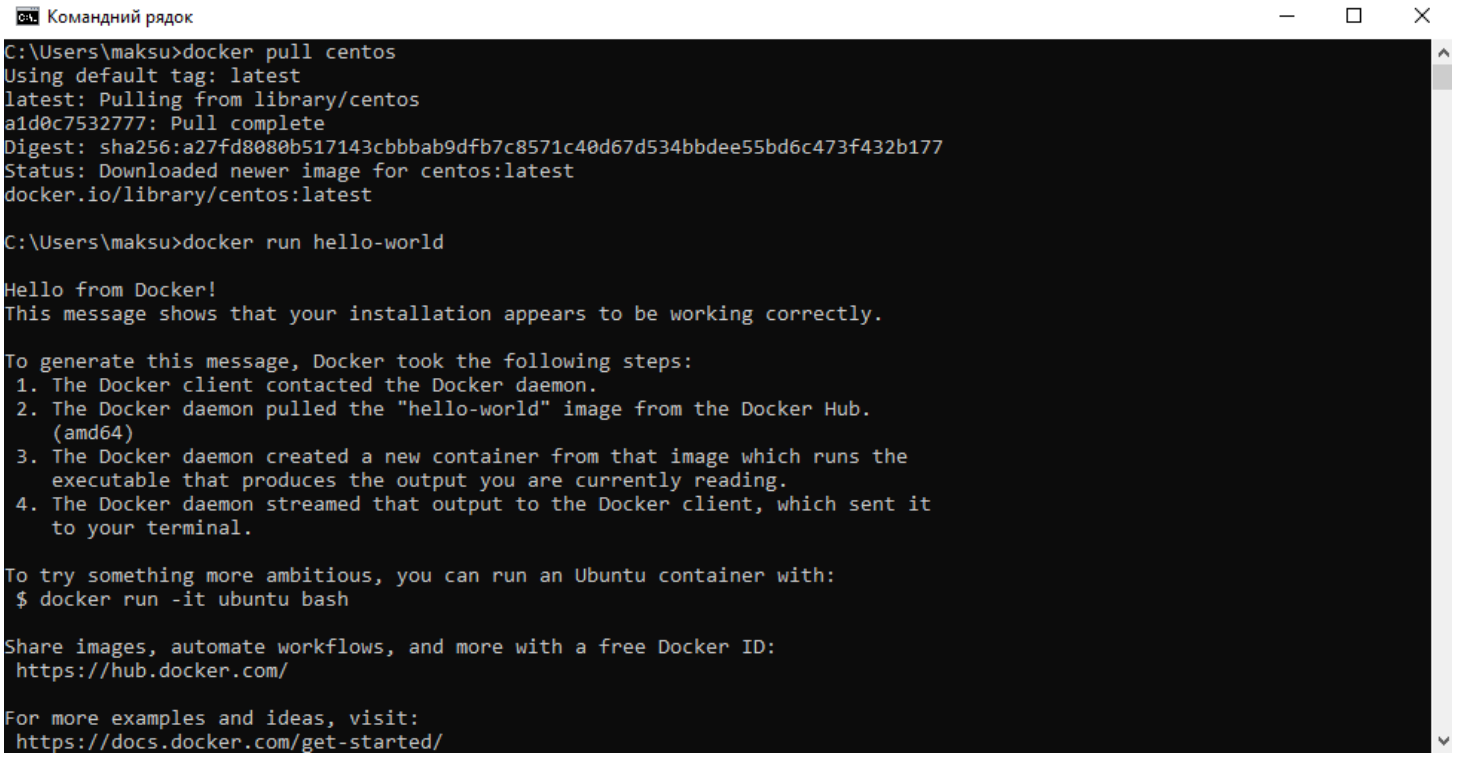
6. **Перевірив чи немає запущених контейнерів**

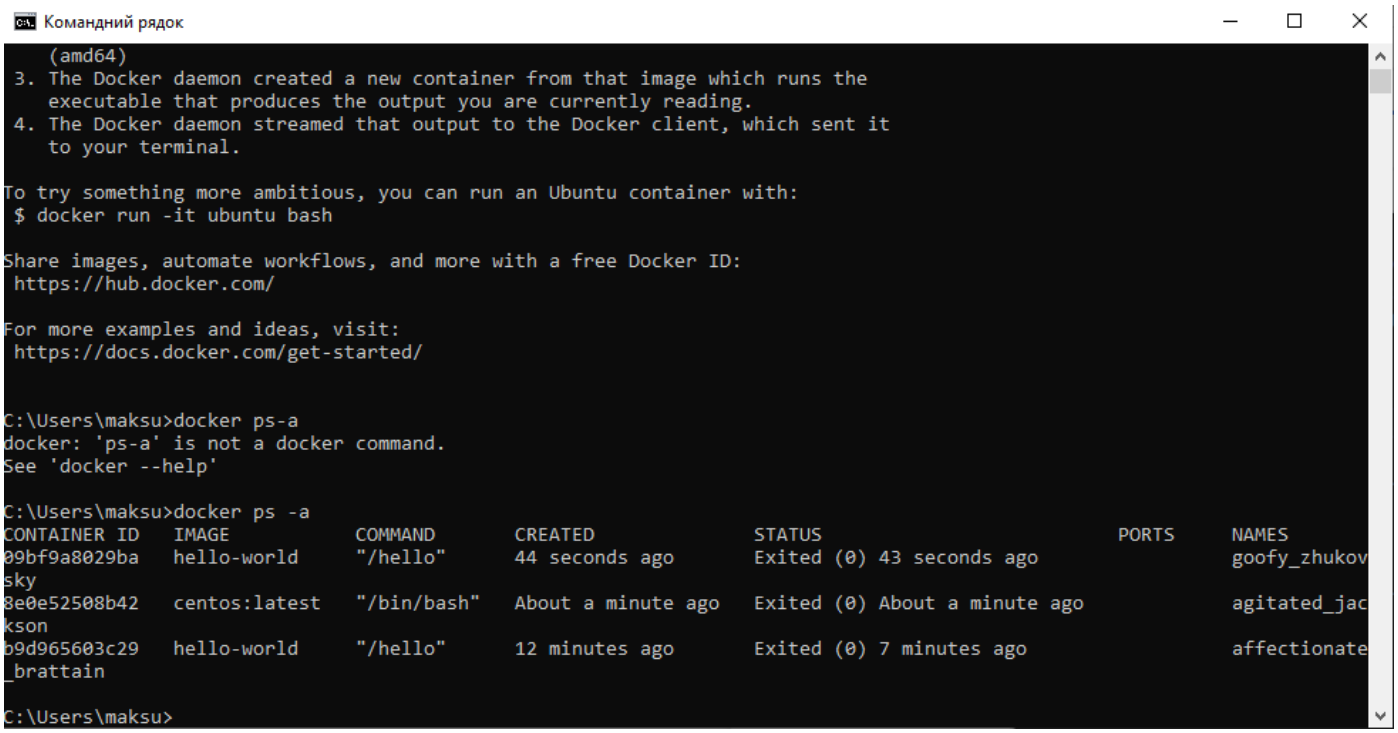


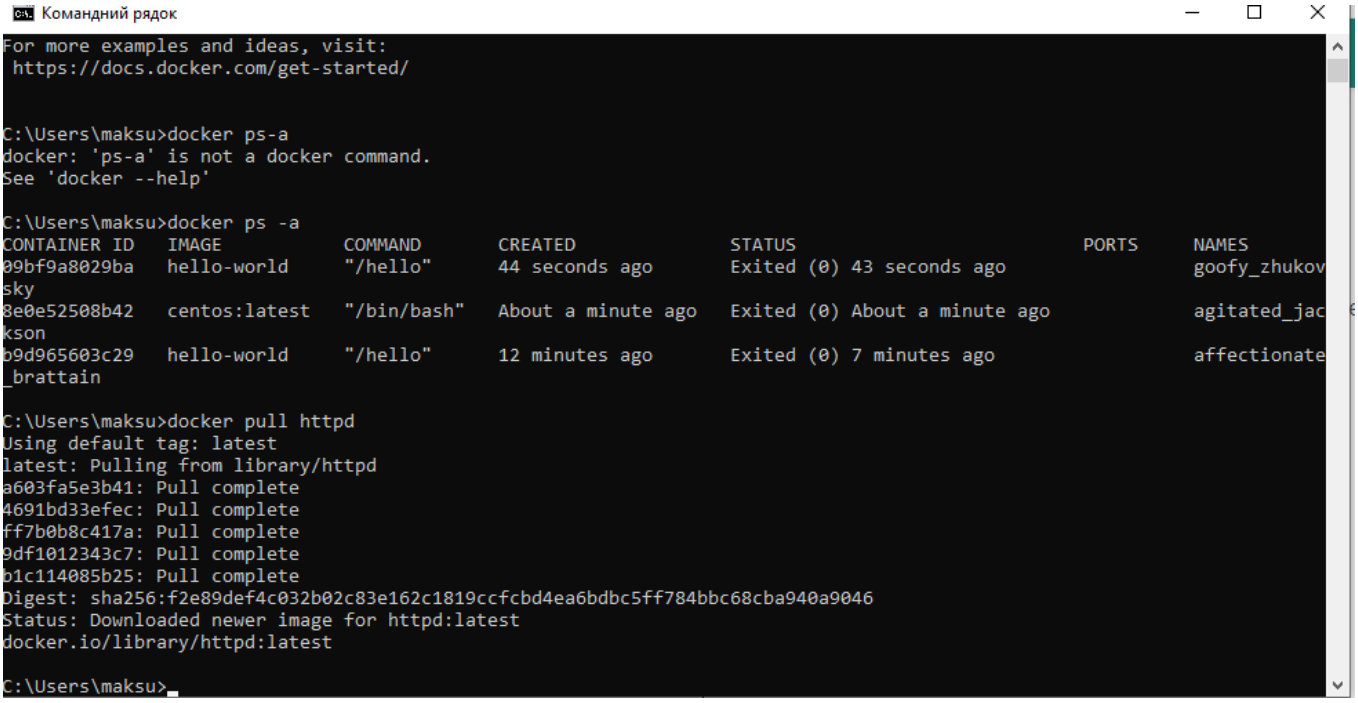
7. Скачай та встановив контейнер операційної системи

2,9,16,23,30 centos httpd mariadb Python






Командний рядок
(amd64)
3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
C:\Users\maksu>docker ps-a
docker: 'ps-a' is not a docker command.
See 'docker --help'
C:\Users\maksu>docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
09bf9a8029ba hello-world "/hello" 44 seconds ago Exited (0) 43 seconds ago goofy_zhukov
sky
8e0e52508b42 centos:latest "/bin/bash" About a minute ago Exited (0) About a minute ago agitated_jac
kson
b9d965603c29 hello-world "/hello" 12 minutes ago Exited (0) 7 minutes ago affectionate
_brattain
C:\Users\maksu>


Командний рядок
For more examples and ideas, visit:
https://docs.docker.com/get-started/
C:\Users\maksu>docker ps-a
docker: 'ps-a' is not a docker command.
See 'docker --help'
C:\Users\maksu>docker ps -a
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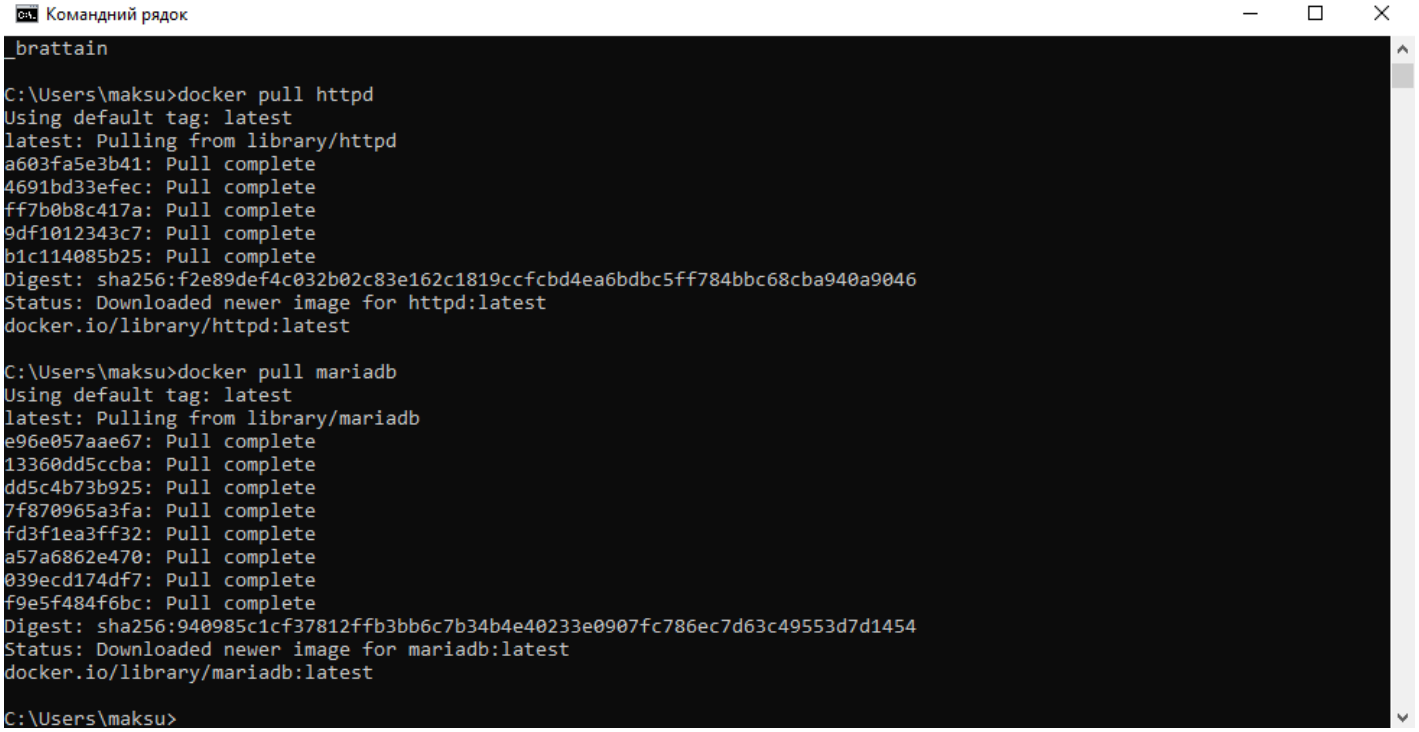
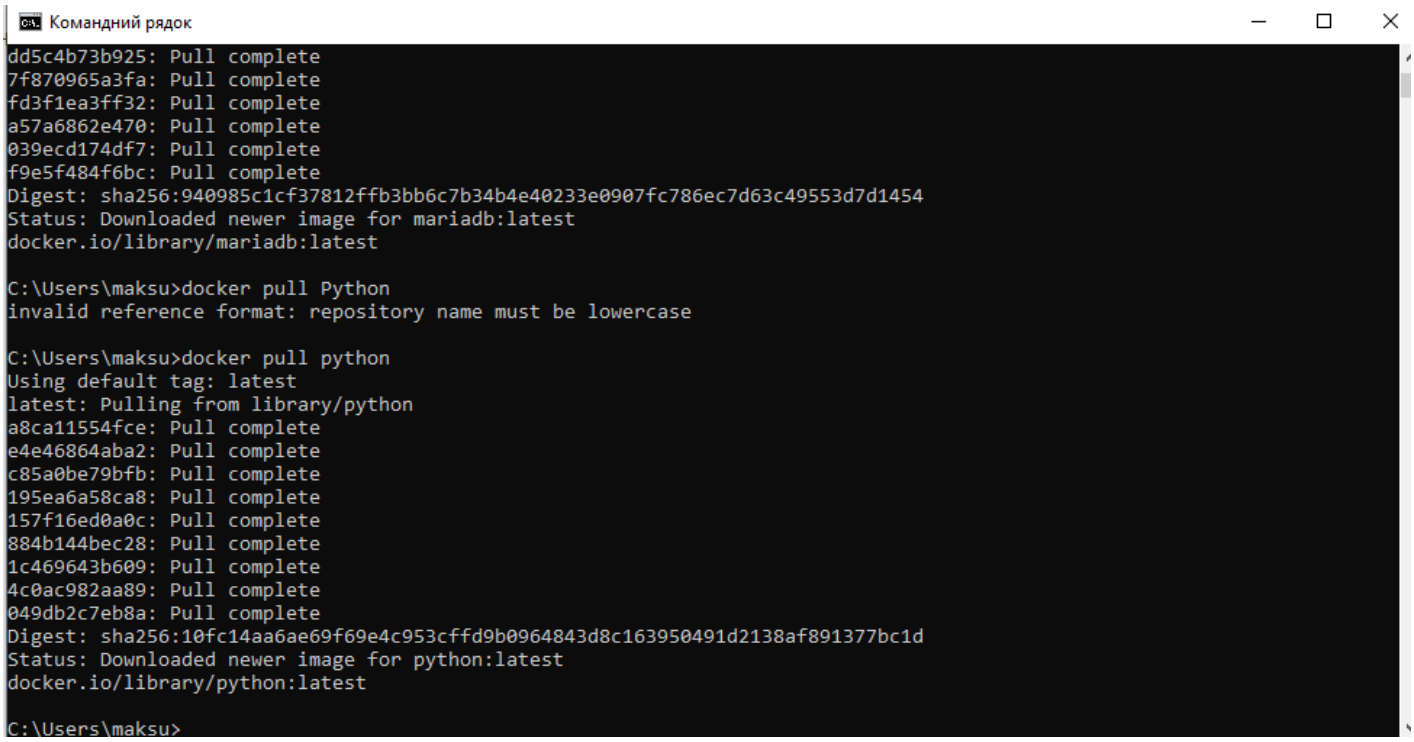
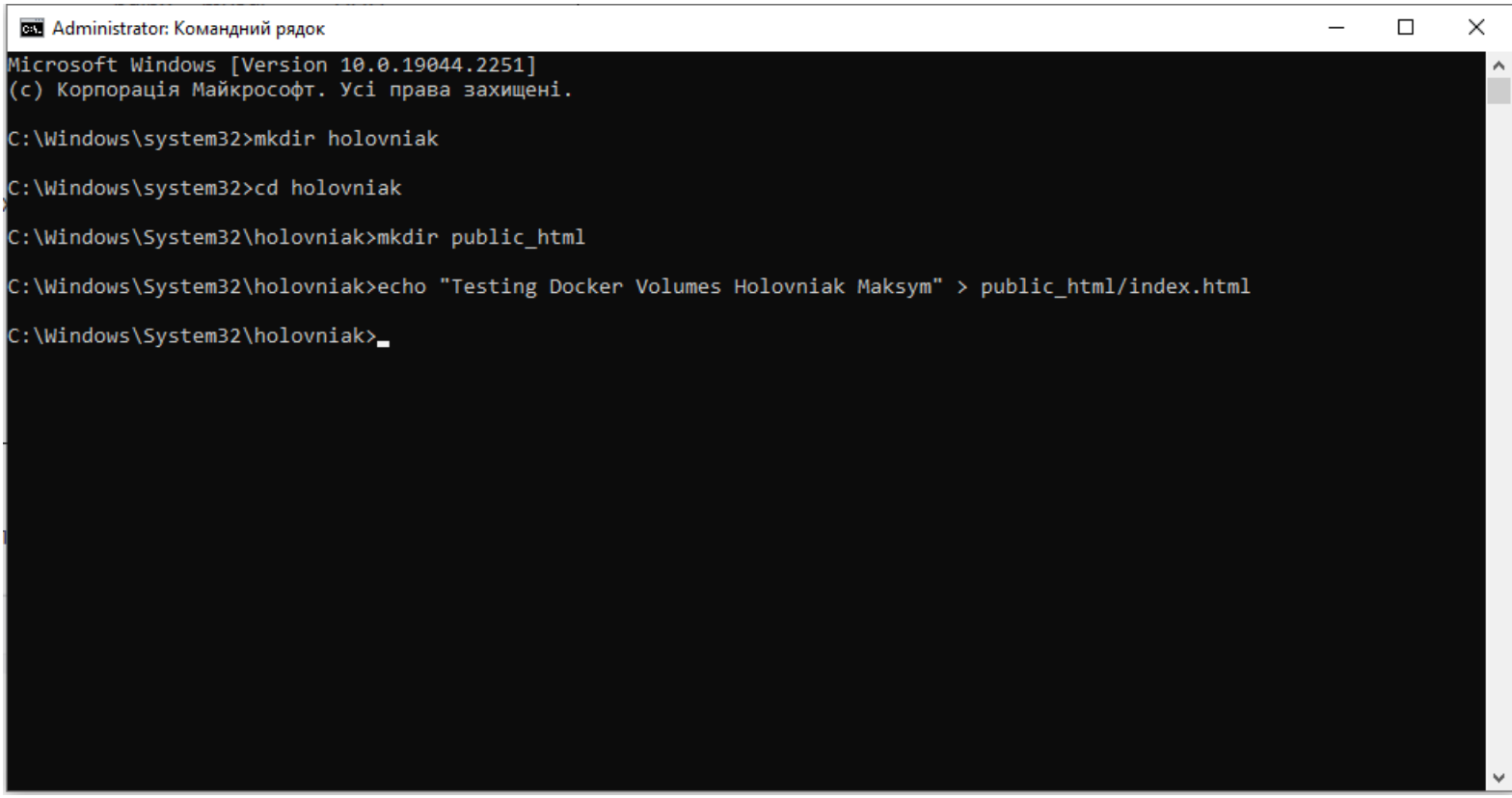
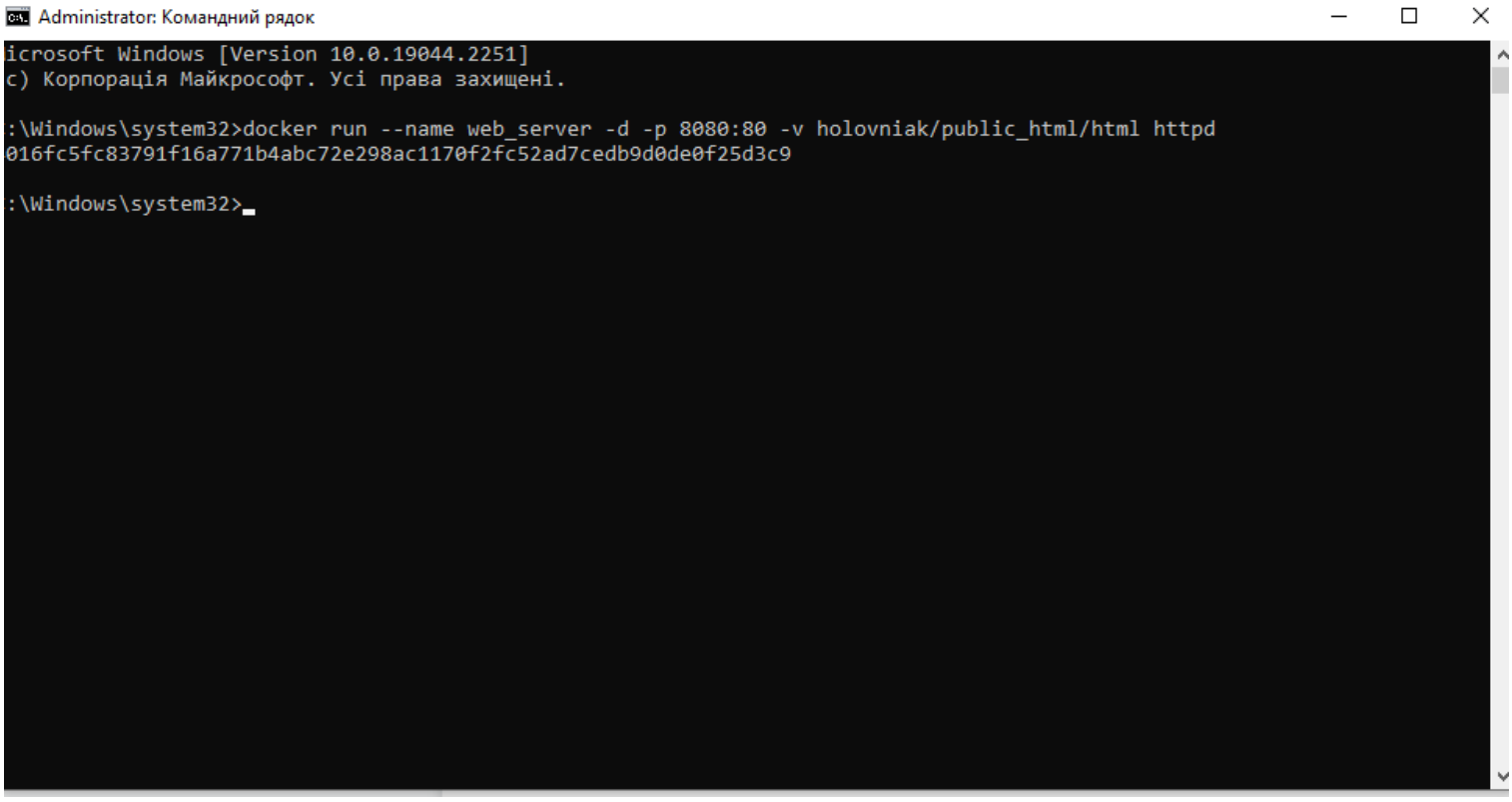
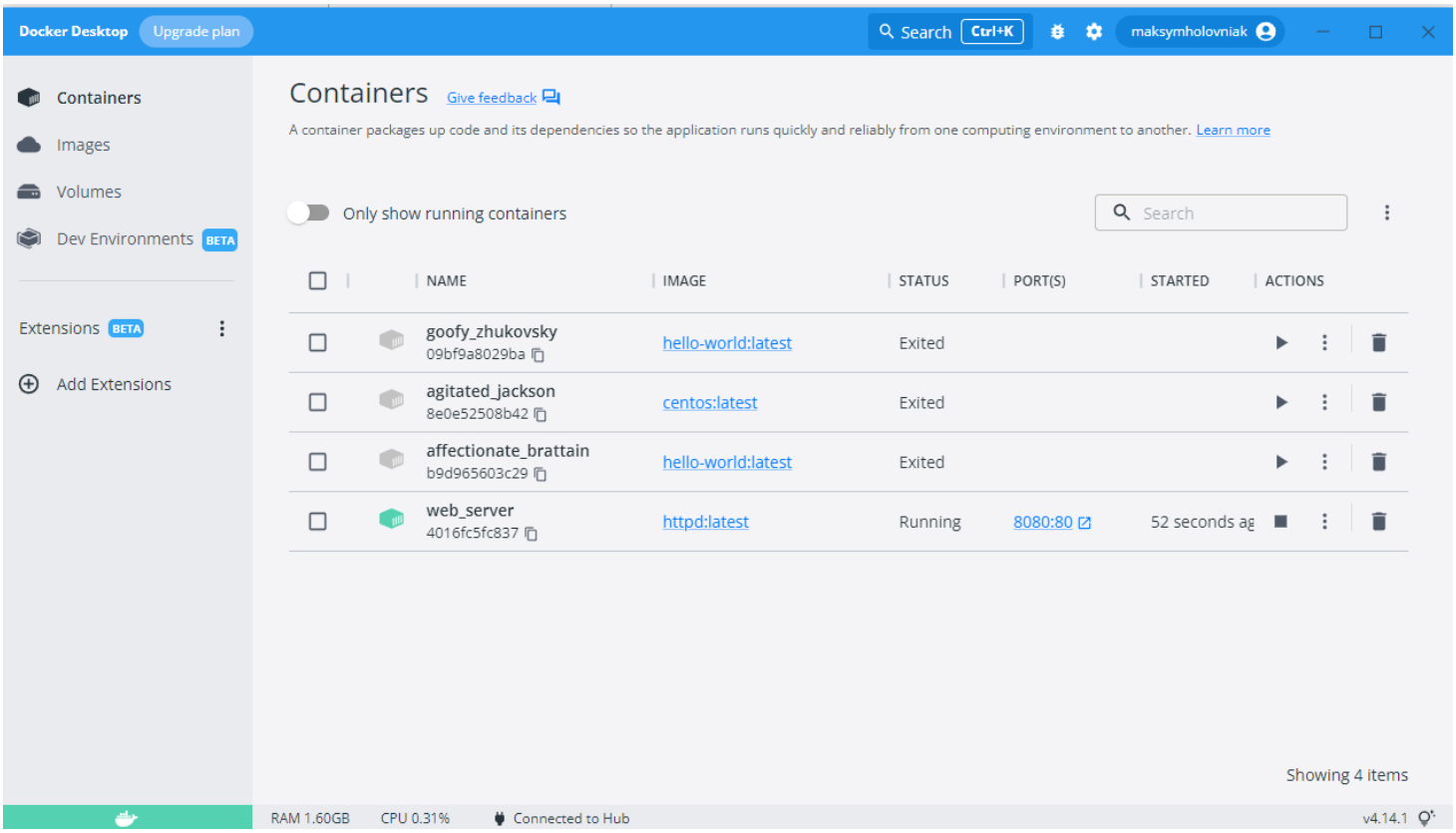
8e0e52508b42 centos:latest "/bin/bash" About a minute ago Exited (0) About a minute ago agitated_jac
kson
b9d965603c29 hello-world "/hello" 12 minutes ago Exited (0) 7 minutes ago affectionate
_brattain
C:\Users\maksu>docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
a603fa5e3b41: Pull complete
4691bd33efec: Pull complete
ff7b0b8c417a: Pull complete
9df1012343c7: Pull complete
b1c114085b25: Pull complete
Digest: sha256:f2e89def4c032b02c83e162c1819ccfcbd4ea6bdbc5ff784bbc68cba940a9046
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
C:\Users\maksu>

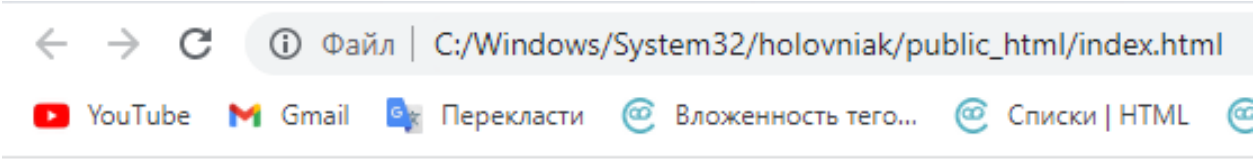

Командний рядок
_brattain
C:\Users\maksu>docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
a603fa5e3b41: Pull complete
4691bd33efec: Pull complete
ff7b0b8c417a: Pull complete
9df1012343c7: Pull complete
b1c114085b25: Pull complete
Digest: sha256:f2e89def4c032b02c83e162c1819ccfcbd4ea6bdbc5ff784bbc68cba940a9046
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
C:\Users\maksu>docker pull mariadb
Using default tag: latest
latest: Pulling from library/mariadb
e96e057aae67: Pull complete
13360dd5ccba: Pull complete
dd5c4b73b925: Pull complete
7f870965a3fa: Pull complete
fd3f1ea3ff32: Pull complete
a57a6862e470: Pull complete
039ecd174df7: Pull complete
f9e5f484f6bc: Pull complete
Digest: sha256:940985c1cf37812ffb3bb6c7b34b4e40233e0907fc786ec7d63c49553d7d1454
Status: Downloaded newer image for mariadb:latest
docker.io/library/mariadb:latest
C:\Users\maksu>


Командний рядок
dd5c4b73b925: Pull complete
7f870965a3fa: Pull complete
fd3f1ea3ff32: Pull complete
a57a6862e470: Pull complete
039ecd174df7: Pull complete
f9e5f484f6bc: Pull complete
Digest: sha256:940985c1cf37812ffb3bb6c7b34b4e40233e0907fc786ec7d63c49553d7d1454
Status: Downloaded newer image for mariadb:latest
docker.io/library/mariadb:latest
C:\Users\maksu>docker pull Python
invalid reference format: repository name must be lowercase
C:\Users\maksu>docker pull python
Using default tag: latest
latest: Pulling from library/python
a8ca11554fce: Pull complete
e4e46864aba2: Pull complete
c85a0be79bfb: Pull complete
195ea6a58ca8: Pull complete
157f16ed0a0c: Pull complete
884b144bec28: Pull complete
1c469643b609: Pull complete
4c0ac982aa89: Pull complete
049db2c7eb8a: Pull complete
Digest: sha256:10fc14aa6ae69f69e4c953cffd9b0964843d8c163950491d2138af891377bc1d
Status: Downloaded newer image for python:latest
docker.io/library/python:latest
C:\Users\maksu>

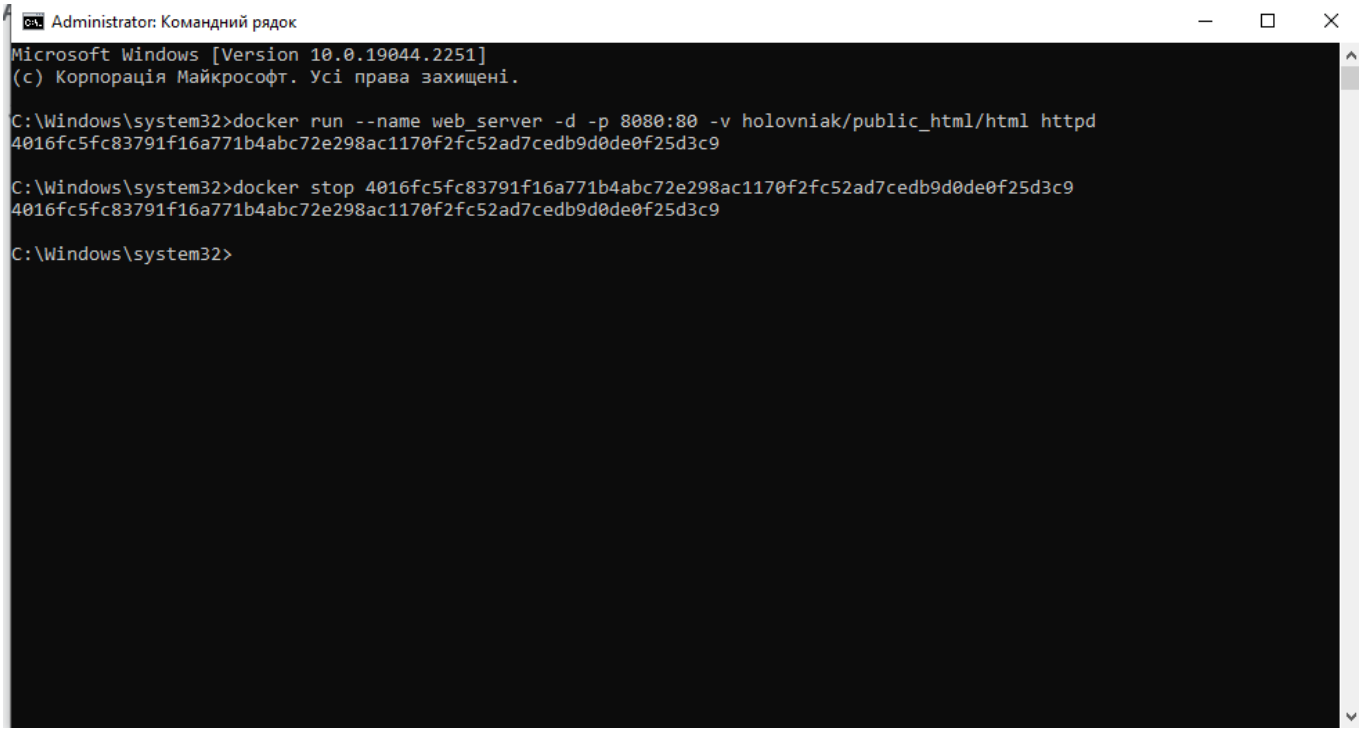

Administrator: Командний рядок
Microsoft Windows [Version 10.0.19044.2251]
(c) Корпорація Майкрософт. Усі права захищені.
C:\Windows\system32>mkdir holovniak
C:\Windows\system32>cd holovniak
C:\Windows\System32\holovniak>mkdir public_html
C:\Windows\System32\holovniak>echo "Testing Docker Volumes Holovniak Maksym" > public_html/index.html
C:\Windows\System32\holovniak>

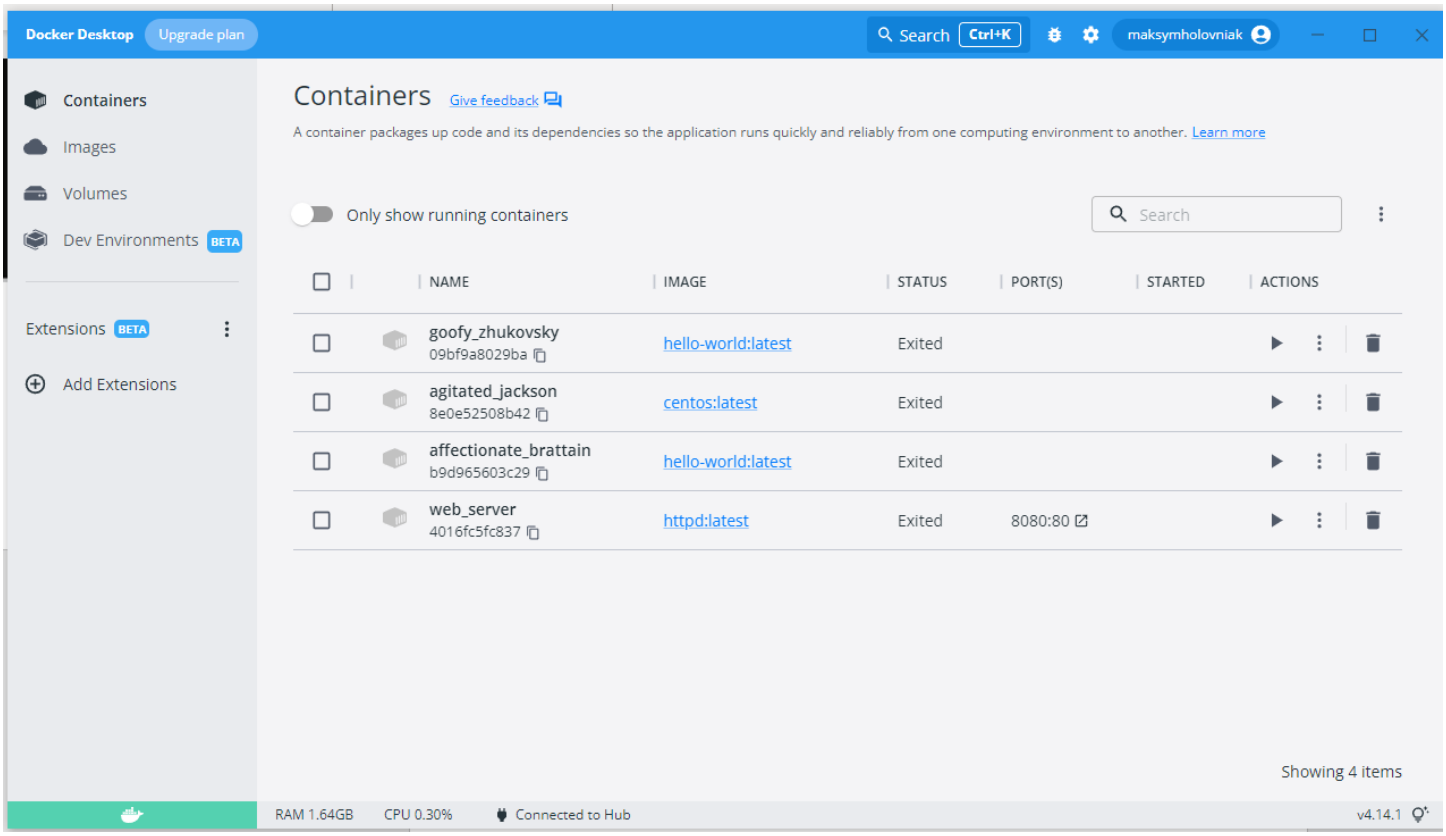

Administrator: Командний рядок
icrosoft Windows [Version 10.0.19044.2251]
c) Корпорація Майкрософт. Усі права захищені.
:\Windows\system32>docker run --name web_server -d -p 8080:80 -v holovniak/public_html/html httpd
016fc5fc83791f16a771b4abc72e298ac1170f2fc52ad7cedb9d0de0f25d3c9
:\Windows\system32>





"Testing Docker Volumes Holovniak Maksym"





Висновок: Я оволодіти базовими навичками по роботі з сучасними системами керування контейнерами.