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CPE 434-01

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Lab 13

Assignment 1

- Ubuntu 16.04.3 LTS
- 4.9.61+ - The kernel version is 4.
- Lscpu says that there are 8 processors on this machine. Their model number is ARMv7 Processor rev 3 (v7l)

Assignment 2

1.

```
odroid@odroid:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
4ee5c797bcd7: Pull complete
Digest: sha256:308866a43596e83578c7dfa15e27a73011bdd402185a84c5cd7f32a88b501
a24
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (arm32v7)
 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/

odroid@odroid:~$
```

2.

```
odroid@odroid:~/lab13$ python2 python2Stuff.py
This will only work with python version 2.x
Yeah!!! This is function called only by python2.x
This is an important function
odroid@odroid:~/lab13$
```

3.

```
odroid@odroid:~/lab13$ python2 python2Stuff.py
-bash: /usr/bin/python2: No such file or directory
odroid@odroid:~/lab13$ python python2Stuff.py
-bash: python: command not found
odroid@odroid:~/lab13$ python3 python2Stuff.py
Error!!!You are not supposed to run it like this.
```

Assignment 3

```
odroid@odroid:~/lab13$ python2 python2Stuff.py
-bash: python2: command not found
odroid@odroid:~/lab13$ python3 python2Stuff.py
Error!!!You are not supposed to run it like this.
odroid@odroid:~/lab13$
```

```
odroid@odroid:~/lab13$ sudo docker run prawar/lab14_demo:public_student
Unable to find image 'prawar/lab14_demo:public_student' locally
public_student: Pulling from prawar/lab14_demo
fac132c5d16f: Pull complete
c63d1875326e: Pull complete
4a17cc4f3bc6: Pull complete
95ad755dcfcc: Pull complete
e0e98022f122: Pull complete
3c388b10d309: Pull complete
Digest: sha256:f8e259195af98a1939ee873f7a779064848cc40f827bd1d51a43fe3202a74
cad
Status: Downloaded newer image for prawar/lab14_demo:public_student
This will only work with python version 2.x
Yeah!!! This is function called only by python2.x
This is an important function
```

Assignment 5

```
odroid@odroid:~$ sudo docker run mylab14_asb0034
[sudo] password for odroid:
This will only work with python version 2.x
Yeah!!! This is function called only by python2.x
This is an important function
odroid@odroid:~$
```

Appendix

```python
import sys
def python2_stuff():
    print("Yeah!!! This is function called only by python2.x")
    print("This is an important function")
if sys.version_info[0]<3:
    print("This will only work with python version 2.x")
    python2_stuff()
else:
    print("Error!!!You are not supposed to run it like this.")
```