

Lab 3. Docker 활용

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<https://hub.docker.com/repository/docker/kkambbak/myubuntu/general>

Test.py 출력이었습니다.

```
root@0d8cb413fa0c: /home#
E: Unable to locate package vi
root@0d8cb413fa0c: /home# apt install nano
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  hunspell
The following NEW packages will be installed:
  nano
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 269 kB of archives.
After this operation, 888 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 nano amd64 4.8-1ubuntu1 [269 kB]
Fetched 269 kB in 2s (135 kB/s)
debconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package nano.
(Reading database ... 5742 files and directories currently installed.)
Preparing to unpack .../nano_4.8-1ubuntu1_amd64.deb ...
Unpacking nano (4.8-1ubuntu1) ...
Setting up nano (4.8-1ubuntu1) ...
update-alternatives: using /bin/nano to provide /usr/bin/editor (editor) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/editor.1.gz because associated file /usr/share/man/man1/nano.1.gz (of link group editor) doesn't exist
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/pico.1.gz because associated file /usr/share/man/man1/nano.1.gz (of link group pico) doesn't exist
root@0d8cb413fa0c: /home# nano test.py
root@0d8cb413fa0c: /home# python test.py
hello world
root@0d8cb413fa0c: /home#

ys@DESKTOP-JRQH0G1: ~
update-alternatives: using /bin/nano to provide /usr/bin/pico (pico) in auto mode
update-alternatives: warning: skip creation of /usr/share/man/man1/pico.1.gz because associated file /usr/share/man/man1/nano.1.gz (of link group pico) doesn't exist
root@0d8cb413fa0c: /home# nano test.py
root@0d8cb413fa0c: /home# python test.py
hello world
root@0d8cb413fa0c: /home# exit
exit
ys@DESKTOP-JRQH0G1: ~$ docker ps -a
CONTAINER ID   IMAGE                                COMMAND                  CREATED        STATUS        PORTS   NAMES
0d8cb413fa0c   ubuntu:20.04                        "bash"                  11 minutes ago Exited (0) 3 seconds ago           server
200c0448390a   balenalib/raspberrypi4-64-debian   "/usr/bin/entry.sh"     28 minutes ago Exited (0) 28 minutes ago           funny_northcutt
b3c9c493077   balenalib/raspberrypi4-64-debian   "/usr/bin/entry.sh"     28 minutes ago Exited (0) 28 minutes ago           heuristic_leavitt
c2b3b081d1211   resin/raspberrypi-debian-buster     "/usr/bin/entry.sh /..." 27 hours ago   Exited (255) 12 hours ago           charming_booth
3c32221263d4   resin/raspberrypi-debian            "/usr/bin/entry.sh /..." 27 hours ago   Exited (255) 12 hours ago           flamboyant_gagarin
04b6d953f9e1   balenalib/raspberrypi4-64-debian   "/usr/bin/entry.sh b..." 27 hours ago   Exited (255) 12 hours ago           beautiful_euclid
cb3c460875ad   hello-world                          "/hello"                 27 hours ago   Exited (0) 27 hours ago           frosty_pascal
e39a3407cb69   alpine/git                           "git clone https://g..." 27 hours ago   Exited (0) 28 hours ago           repo
ys@DESKTOP-JRQH0G1: ~$ docker exec server python --version
Python 2.7.18
Error response from daemon: Container 0d8cb413fa0cba2552e9ddb4ec6b5e975783f6b27e7f03bc89fab933b15d8bb is not running
ys@DESKTOP-JRQH0G1: ~$ docker start 0d8cb413fa0c
0d8cb413fa0c
ys@DESKTOP-JRQH0G1: ~$ docker exec server python --version
Python 2.7.18
ys@DESKTOP-JRQH0G1: ~$ docker commit server myubuntu
sha256:011dab25bb00ecba044a51ea7785356c205eeebc31beded6ec6270664f0fa6
ys@DESKTOP-JRQH0G1: ~$ docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
myubuntu        latest   011dab25bb00   8 seconds ago   167MB
docker101tutorial   latest   0c6fba54e384   28 hours ago   28.5MB
balenalib/raspberrypi4-64-debian   latest   9e9c492917d5   5 days ago   189MB
alpine/git        latest   cb670534b534   2 weeks ago   27.4MB
ubuntu            20.04   ba8acc0cd29   7 weeks ago   72.8MB
hello-world       latest   feb5d9fea6a5   2 months ago   13.3kB
resin/raspberrypi-debian   latest   d655a7b0f907   2 years ago   131MB
resin/raspberrypi-debian   latest   28f1ee4d4d5a   2 years ago   120MB
ys@DESKTOP-JRQH0G1: ~$ docker push kkambbak/myubuntu
Using default tag: latest
ys@DESKTOP-JRQH0G1: ~/build
ys@DESKTOP-JRQH0G1: ~/build$ ls
Dockerfile
ys@DESKTOP-JRQH0G1: ~/build$ docker build -t p3server .
[+] Building 101.5s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 214B
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load metadata for docker.io/library/ubuntu:20.04
=> [1/6] FROM docker.io/library/ubuntu:20.04
=> [internal] load build context
=> transferring context: 206B
=> [2/6] RUN apt update && apt install -y python3
=> [3/6] WORKDIR /home/
=> [4/6] RUN echo "print('hello world') >> test.py
=> [5/6] COPY [Dockerfile, .]
=> exporting to image
=> writing image sha256:a6f79dc4f84a64fac5d57b68031d29dc4f41b68f51e42abf0faba02219e9ef1
=> naming to docker.io/library/p3server
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
ys@DESKTOP-JRQH0G1: ~/build$ docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
p3server        latest   a6f79dc4f84e   29 seconds ago   144MB
kkambbak/myubuntu   latest   011dab25bb00   About an hour ago   167MB
myubuntu        latest   011dab25bb00   About an hour ago   167MB
docker101tutorial   latest   0c6fba54e384   28 hours ago   28.5MB
balenalib/raspberrypi4-64-debian   latest   9e9c492917d5   5 days ago   189MB
alpine/git        latest   cb670534b534   2 weeks ago   27.4MB
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resin/raspberrypi-debian   latest   d655a7b0f907   2 years ago   131MB
resin/raspberrypi-debian   latest   28f1ee4d4d5a   2 years ago   120MB
ys@DESKTOP-JRQH0G1: ~/build$ docker run --name myp3server p3server
hello world
ys@DESKTOP-JRQH0G1: ~/build$
```

