오픈소스 SW 개발도구 활용

20175132 박신우

1. 기본적으로 아파치를 사용하기 위하여 아파치 설치 그리고 이미지 파일을 활용하기 위하여 wget함수를 사용하려 하였지만 안되어서 추가적으로 설치하여 활용하였습니다.

```
qkrtlsdn981225@psw:/var/www/html$ sudo apt install wget
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
wget is already the newest version (1.21-1+debllul).
0 upgraded, 0 newly installed, 0 to remove and 8 not upgraded.
```

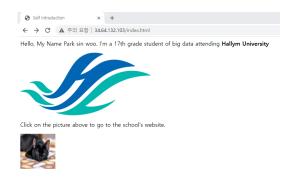
2. wget함수를 이용하여 필요한 사진의 이미지 주소를 복사하여 저장합니다.

```
| dertisanss1238gnavi/var/wow/html$ sudo uget https://www.hallym.ac.kr/.resources/hallym_univ_thems/hallym.cv/mow/html$ | mow.hallym.ac.kr/.resources/hallym_univ_thems/hallym.cv/mow.hallym.ac.kr/.resources/hallym_univ_thems/hallym.cv/mow.hallym.cv/mow.hallym.ac.kr/.resources/hallym_univ_thems/hallym.cv/mow.hallym.cv/mow.hallym.ac.kr/.resources/hallym_univ_thems/hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.hallym.cv/mow.ha
```

3. 본인소개서 내용을 작성하여 html문서안에 저장을 한다.

```
<html>
<head>
<title>Self Introduction </title>
</head>
<br/>
</head>
<br/>
<br/>
</head>
<br/>
<br/>
<br/>
Hello, My Name Park sin woo. I'm a 17th grade student of big data attending <strong>Hallym University</strong>
<a href="www.hallym.ac.kr"><img src="symbol-ui-mark.png"></a>
Click on the picture above to go to the school's website.
<img height="100" width="100" src="GettyImages-1175550351.jpg"></body>
</body>
</html>
```

4. 연결될 주소로 이동하여 자신이 만든 코드와 html의 문서가 똑같이 나오는지 확인한다.



5. 기본적인 도커의 패키지를 설치를 한다.

```
ompose-plugin (2.10.2-debian-bullseye) ...
ly unselected package docker-scan-plugin.
k .../07-docker-scan-plugin_0.17.0-debian-bullseye_amd64.deb .
noting previously unselected package doctors.

cling previously unselected package doctors.

cling previously unselected package doctors.

packing to unpack .../07-docker-scan-plugin_0.17.0-debian-bullseye_amd64.deb .

coting previously unselected package librur3-gmut1s:amd64.

saring to unpack .../08-librur13-gmut1s amd64.deb ...

coting previously unselected package librur3-gmut1s amd64.deb ...

coting previously unselected package librur3-gmut1s amd64.deb ...

coting previously unselected package librur3-gmut1s amd64.deb ...

coting previously unselected package git-man.

saring to unpack .../08-librur3-gmut1s amd64.deb ...

coting previously unselected package git-man.

saring to unpack .../09-librur3-gmut1s amd64.deb ...

coting previously unselected package git-man.

saring to unpack .../10-qit-man_libs2.30.2-1_amd64.deb ...

coting git-man [12.30.2-1] unc_libs2.30.2-1] amd64.deb ...

coting git-man [12.30.2-2]

coting previously unselected package librur3-gmam64.deb ...

coting git-man [12.30.2-2]

coting previously unselected package librur3-gmam64.deb ...

coting librur3-gmam64 (2.4.6-15) ...

coting previously unselected package patch.

saring to unpack .../13-librur3-gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../13-librur3-gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../15-patch_2.7.6-7_gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../15-patch_2.7.6-7_gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../15-patch_2.7.6-7_gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../15-patch_2.7.6-7_gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../15-patch_2.7.6-7_gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../15-patch_2.7.6-7_gmam64.deb ...

coting previously unselected package patch.

saring to unpack .../19-patch_2.7.6-7_gmam64.deb ...

coting patch [10.2.7_gmam64]

saring to unpack 
                                                                                                                                                                                                                                                                                                                                                                                qkrtlsdn981225@psw:~$ sudo apt-get install
                                                                                                                                                                                                                                                                                                                                                                                                             ca-certificates \
                                                                                                                                                                                                                                                                                                                                                                                                             gnupg \
                                                                                                                                                                                                                                                                                                                                                                                                               lsb-release
                                                                                                                                                                                                                                                                                                                                                                                  Reading package lists... Done
                                                                                                                                                                                                                                                                                                                                                                                  Building dependency tree... Done
                                                                                                                                                                                                                                                                                                                                                                                  Reading state information... Done
                                                                                                                                                                                                                                                                                                                                                                                   ca-certificates is already the newest version (20210119).
                               link /etc/aystend/system/multi-user.target.vaystem/docker.service.
link /etc/aystend/system/sockets.target.want
m/docker.socket.
git (12:30:2-1) ...
trigoges for man-db (2:9:4-2) ...
trigoges for libo-bin (2:31-13-debliud) ...
trigoges for man-db (2:9:4-2) ...
trigoges for man-db (2:9:4-2) ...
trigoges for libo-bin (2:31-13-debliud) ...
trigoges for libo-bin (3:31-13-debliud) ...
trigoges for libo-bin (3:31-13-debliud) ...
trigoges for libo-bin (3:31-13-debliud) ...
trigoges for libo-bin (3:31-13-13-debliud) ...
trigoges for libo-bin (
                                                                                                                                                                                                                                                                                                                                                                                   ca-certificates set to manually installed.
                                                                                                                                                                                                                                                                                                                                                                                   gnupg is already the newest version (2.2.27-2+deb11u2).
                                                                                                                                                                                                                                                                                                                                                                                   gnupg set to manually installed.
                                                                                                                                                                                                                                                                                                                                                                                     lsb-release is already the newest version (11.1.0).
                                                                                                                                                                                                                                                                                                                                                                                     lsb-release set to manually installed.
                                      25@psw:~$ sudo docker images
TAG IMAGE ID CREATED SIZE
                                                                                                                                                                                                                                                                                                                                                                                   0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
```

6. 도커를 설치한 후 apache를 사용하기 위해 필요한 htttpd image를 다운로드 한다. 그 후 image를 run 시킨후 웹페이지에 제대로 연결이 되었는지 확인한다.



7. exec명령을 통하여 컨테이너 내부에 접속한 후 내부에 있는 index.html파일의 위치를 확인한다.

```
qkrtlsdn981225@psw:/var/www/html$ docker exec -it 90 bash
root@90ecd9bbb523:/usr/local/apache2# ls
bin build cgi-bin conf error htdocs icons include logs modules
root@90ecd9bbb523:/usr/local/apache2# cd htdocs
root@90ecd9bbb523:/usr/local/apache2/htdocs# ls
index.html
```

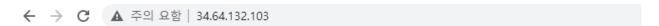
8. 실행되어 있는 컨테이너의 Name을 알아낸 후



9. 기존에 만들어 놓았던 var/www/html/index.html을 컨테이너 내부의 index.html파일에 cp 명령어를 통하여 복사하여 붙여넣기를 해줍니다.

qkrtlsdn981225@psw:/var/www/html\$ sudo docker cp index.html funny_tereshkova:/usr/local/apache2/htdocs/index.html

10. 마지막으로 연결된 포트에 같은 내용의 문서가 저장되어 있는지 체크합니다.



Hello, My Name Park sin woo. I'm a 17th grade student of big data attending Hallym University



Click on the picture above to go to the school's website.

