컴퓨터네트워크

제출일자	2022.11.05
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```
kiwoong-kim@LAPTOP-UHDQAHEK:~/computer-network/prac8$ docker run --name mynginx -p 8080:8080 -v /home/k
iwoong-kim/computer-network/prac8/nginx.conf:/etc/nginx/nginx.conf --add-host mynginx:host-gateway -d n
c64c41315060ae850141c17c63deae9f5c7f4678134357d215b4e10580a1690a
```

```
HEK:~/computer-network/prac8$ docker logs mynginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Launching / docker-entrypoint.d/20-envsubst-on-templates.sh\\
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2022/11/02 14:02:07 [notice] 1#1: using the "epoll" event method 2022/11/02 14:02:07 [notice] 1#1: nginx/1.23.1
2022/11/02 14:02:07 [notice] 1#1: built by gcc 10.2.1 20210110 (Debian 10.2.1-6)
2022/11/02 14:02:07 [notice] 1#1: OS: Linux 5.4.72-microsoft-standard-WSL2
2022/11/02 14:02:07 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2022/11/02 14:02:07 [notice] 1#1: start worker processes
2022/11/02 14:02:07 [notice] 1#1: start worker process 31
2022/11/02 14:02:07 [notice] 1#1: start worker process 32 2022/11/02 14:02:07 [notice] 1#1: start worker process 33
2022/11/02 14:02:07 [notice] 1#1: start worker process 34
172.17.0.1 - [02/Nov/2022:14:02:14 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137
172.17.0.1 - - [02/Nov/2022:14:02:16 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137 0.52" "-"
172.17.0.1 - - [02/Nov/2022:14:02:17 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137 0.52" "-"
172.17.0.1 - - [02/Nov/2022:14:02:18 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137 0.52" "-"
172.17.0.1 - - [02/Nov/2022:14:02:18 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N
T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137
172.17.0.1 - - [02/Nov/2022:14:02:25 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N
T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0.0 Safari/537.36 Edg/106.0.137
172.17.0.1 - - [02/Nov/2022:14:02:26 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137 0.52" "-"
172.17.0.1 - - [02/Nov/2022:14:03:41 +0000] "GET /counter/ HTTP/1.1" 200 97 "-" "Mozilla/5.0 (Windows N T 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/106.0.0 Safari/537.36 Edg/106.0.137
0.52" "-"
 kiwoong-kim@LAPTOP-UHDQAHEK:~/computer-network/prac8$
```





(i) localhost:8080/counter/

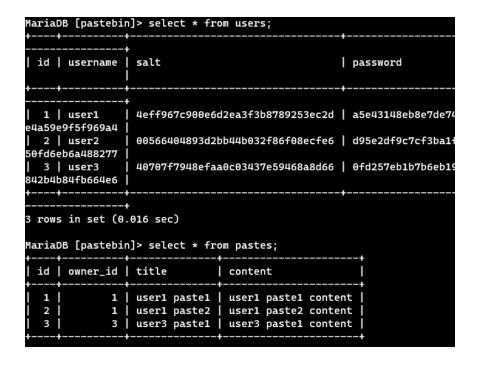
index.html

총 방문자: 53

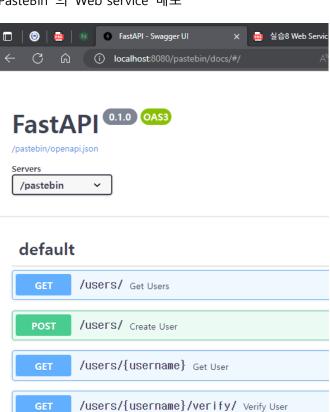
```
Curl
                                                                              Curl
   'http://localhost:8080/pastebin/users/?skip=0&limit=100' \
-H 'accept: application/json'
                                                                               curl -X 'POST' \
                                                                                   'http://localhost:8080/pastebin/users/' \
                                                                                  -H 'accept: application/json' \
-H 'Content-Type: application/json' \
 http://localhost:8080/pastebin/users/?skip=0&limit=100
                                                                                  -d '{
                                                                                  "username": "user3",
"password": "user3pw"
Server response
Code
               Details
200
                                                                              Request URL
               Response body
                                                                                http://localhost:8080/pastebin/users/
                    "username": "user1",
"id": 1,
"pastes": [
                                                                              Server response
                         "title": "user1 paste1",
"content": "user1 paste1 content",
"id": 1
                                                                                                 Details
                                                                              Code
                        "title": "user1 paste2",
"content": "user1 paste2 content",
"id": 2
                                                                              200
                                                                                                  Response body
                                                                                                       "username": "user3",
                                                                                                      "id": 3,
"pastes": []
                    "username": "user2",
"id": 2,
"pastes": []
                                                                     Curl
Curl
                                                                       curl -X 'GET' \
 curl -X 'GET' \
     http://localhost:8080/pastebin/users/user3' \
```

```
'http://localhost:8080/pastebin/users/user3/verify/?password=user3pw'
-Н 'accept: application/json'
    -H 'accept: application/json'
Request URL
                                                                      http://localhost:8080/pastebin/users/user3/verify/?password=user3pw
 http://localhost:8080/pastebin/users/user3
Server response
                                                                                    Details
                                                                    Code
                Details
Code
                                                                    200
200
                                                                                     Response body
                Response body
                                                                                         "username": "user3",
                                                                                       "id": 3,
"pastes": [],
"pastes": "40707f7948efaa0c03437e59468a8d66"
"salt": "40707f7948efaa0c03437e59468a8d66"
                     "username": "user3",
                    "id": 3,
"pastes": []
```

```
Curl
Curl
                                                                                                           curl -X 'GET' \
  'http://localhost:8080/pastebin/users/user3/pastes?skip=0&limit=100'
-H 'accept: application/json'
curl -x 'POST' \
  'http://localhost:8080/pastebin/users/user3/pastes?password=user3pw' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
    "title": "user3 paste1 content"
                                                                                                          http://localhost:8080/pastebin/users/user3/pastes?skip=0&limit=100
Request URL
                                                                                                         Server response
http://localhost:8080/pastebin/users/user3/pastes?password=user3pw
                                                                                                                             Details
                                                                                                         Code
                                                                                                         200
                                                                                                                             Response body
                 Details
Code
                                                                                                                                {
    "title": "user3 paste1",
    "content": "user3 paste1 content",
    "id": 3
200
                 Response body
                     "title": "user3 paste1",
"content": "user3 paste1 content",
"id": 3
```



PasteBin 의 Web service 배포



/users/{username}/pastes Get Pastes

/users/{username}/pastes Create Paste

POST

```
server {
    listen 8080;

location = /pastebin/ {
        proxy_pass http://mynginx:8889/openapi.json;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}

location /pastebin/ {
        proxy_pass http://mynginx:8889/;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}

location = /pastebin/docs/ {
        proxy_pass http://mynginx:8889/docs;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
}
```

kiwoong-kim@LAPTOP-UHDQAHEK:~/computer-network/prac8\$ docker run --name mynginx -p 8080:8080 -v /home/kiwoong-kim/computer-network/app/nginx.conf:/etc/nginx/nginx.conf --add-host mynginx:host-gateway -d n ginx e7ccc6cbfa4lcc3a33e2c0b3ec3818085ffeea2c2935382a87407e1453910b5d

kiwoong-kim@LAPTOP-UHDQAHEK:~/computer-network\$ uvicorn --reload --port 8889 --root-path '/pastebin' a pp.main:app

Nginx 로그