

오픈소스 SW 개발도구활용

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1. gcp에서 워드프레스를 사용하기 위해 google cloud에서 방화벽 규칙을 생성하기를 진행한다. 처음으로 이름과 어떠한 방화벽 규칙인지를 설명을 작성한다.

이름 *

wordpress-port1

소문자, 숫자, 하이픈이 허용됩니다.

출력

워드프레스 8000번 포트 허용

2. 대상을 '네트워크의 모든 인스턴스'로 놓고 소스 IPv4범위를 모든 범위를 허용한다는 의미로 '0.0.0.0/0'으로 설정한 후 실습에 사용한 포트번호를 8000번으로 설정하여 규칙만들기를 끝낸다.

대상

네트워크의 모든 인스턴스

소스 필터

IPv4 범위

소스 IPv4 범위 *

0.0.0.0/0 예: 0.0.0.0/0, 192.168.2.0/24

보조 소스 필터

없음

☒ TCP

포트

8000

예: 20, 50~60

3. nginx, docker.io, docker-compose를 install을 한 후 word-press내용을 저장할 wp 디렉토리를 생성한다.

[illegible]

```

$ curl -sno https://get.docker.com | sudo sh
Installing package info... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (20.10.5+dfsg1~deb1bu2).
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.

The following packages were automatically installed and are no longer required:
apache2-bin apache2-data apache2-utils docker-scan-plugins libapi:
libapt-pkg4.12 libapt-pkg4.12t24 libatomic1 libb2 libbsd0 libbz2-1.0 libca
libltdl7 liblua5.3-0 libltdl0 libmyon-0.2 python3-ast python3-cached-property
python3-certifi python3-chardet python3-dnspython python3-idna python3-jaraco
python3-jinja2 python3-libltdl python3-more-itertools python3-murder
python3-nose python3-packaging python3-persistent python3-requests python3-se
python3-setuptools python3-simp python3-six python3-toml python3-urllib3 python3-ur
python3-zipp python3-zstd
Use 'dpkg --get-selections' to see which packages are installed.
$ sudo apt autoremove
Reading package lists... Done
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.

```

```

$ curl -sSL https://get.docker.com | sudo apt install docker-compose
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be automatically installed and are no longer required:
  apache2-bin apache2-data apache2-utils docker-scen-plugin libapr1
  libaprutil1 libaprutil1-dbd-ldap libaprutil1-ldap libffi5 libidn11
  libidn11-dev libidn11-utils
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  docker-compose
0 upgraded, 1 newly installed, 0 to remove and 9 not upgraded.
Need to get 119 kB of archives.
After this operation, 692 kB of additional disk space will be used.
Get:1: http://deb.debian.org/debian bullseye/main amd64 docker-compose all 1.25.0-

```

```
qkrtlsdn981225@psw:~$ mkdir wp
qkrtlsdn981225@psw:~$ cd wp
```

4. docker-compose.yml 파일안에 아래의 코드를 입력후에 백그라운드에 실행 그 후 ip주소
에 포트번호를 입력후 확인

```
version: '3.3'

services:
  db:
    image: mysql:5.7
    volumes:
      - ./mysql:/var/lib/mysql
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: wordpress
      MYSQL_DATABASE: wordpress
      MYSQL_USER: wordpress
      MYSQL_PASSWORD: wordpress

  wordpress:
    depends_on:
      - db
    image: wordpress:latest
    ports:
      - "8000:80"
    restart: always
    environment:
      WORDPRESS_DB_HOST: db:3306
      WORDPRESS_DB_USER: wordpress
      WORDPRESS_DB_PASSWORD: wordpress
      WORDPRESS_DB_NAME: wordpress
    volumes:
      - ./html:/var/www/html
```

