Docker compose

에스이랩 박연구 부장

2023-08-04



Docker Compose

- Compose는 멀티 컨테이너 Docker 애플리케이션을 정의하고 실행하기 위한 도구
- Compose를 사용하면 YAML 파일을 사용하여 애플리케이션의 서비스를 구성할 수 있음
- 명령 한 번으로 구성에서 모든 서비스를 생성하고 시작할 수 있음

YAML

● 사람이 쉽게 읽을 수 있는 데이터 직렬화 양식

Xml Json

```
<?xml version="1.0" encoding="UTF-8" ?>
<root>
 <apiVersion>v1</apiVersion>
 <kind>Pod</kind>
 <metadata>
  <name>hello-pod</name>
  <labels>
   <app>hello</app>
  </labels>
 </metadata>
 <spec>
  <containers>
   <name>hello-container</name>
   <image>tmkube/hello</image>
   <ports>
     <containerPort>8000</containerPort>
   </ports>
  </containers>
 </spec>
</root>
```

```
"apiVersion": "v1",
"kind": "Pod",
"metadata": {
 "name": "hello-pod",
 "labels": {
   "app": "hello"
"spec": {
 "containers": [
     "name": "hello-container",
    "image": "tmkube/hello",
    "ports": [
        "containerPort": 8000
```

Yaml

apiVersion: v1
kind: Pod
metadata:
name: hello-pod
labels:
app: hello
spec:
containers:
- name: hello-container
image: tmkube/hello
ports:
- containerPort: 8000

ini,toml

YAML

json2yaml.com

JSON to YAML

Convert JSON to YAML online

YAML vs JSON

determine which format is right for you

JSON

stands for javascript object notation

- records separated by commas
 keys & strings wrapped by double quotes
- · good choice for data transport

stands for YAML ain't markup language and is a superset of JSON

- lists begin with a hyphen
- dependent on whitespace / indentationbetter suited for configuration than json

privacy notice

- · analytics and adsense are run on the site which utilize cookies
- · here is a version of the site without adsense and analytics
- submissions are not stored or logged
- contact: json2yaml@protonmail.com

```
JSON
                                                                      YAML
1 {
2 "json": [
      "slim and flexible",
                                                                     9 - better for data interchange
                                                                     10 yaml:
                                                                     11 - slim and flexible
                                                                     12 - better for configuration
                                                                           - alias: &example aliases are like variables
                                                                    22 Blank lines denote
          "alias": "aliases are like variables"
                                                                         paragraph breaks
          "alias": "aliases are like variables"
                                                                          Or we
                                                                          can auto
                                                                         convert line breaks
                                                                          to save space
    "paragraph": "Blank lines denote#nparagraph breaks#n",
    "content": "Or we\ncan auto\nconvert line breaks\nto save
                                                                     31 bar: baz
                                                                     32 alias_reuse: *foo
    "alias_reuse": {
      "bar": "baz"
38 }
```

docker-compose.yaml

```
version: '3.1'
services:
 ghost:
   image: ghost:4.12
   container_name: ghost
   hostname: ghost
   restart: always
   ports:
      - 80:2368
   expose:
      - 2368
   volumes:
      - ./volume/var/lib/ghost/content:/var/lib/ghost/content
   depends_on:
     - db
   environment:
     # see https://ghost.org/docs/config/#configuration-options
     database client: mysql
     database connection host: db
     database__connection__user: root
     database connection password: <mysql root 비밀번호>
     database connection database: ghost
 db:
   image: mysql:5.7
   container_name: ghost_mysql
   hostname: ghost mysql
   restart: always
   volumes:
     - ./volume/var/lib/mysql:/var/lib/mysql
   environment:
     MYSQL_ROOT_PASSWORD: <mysql root 비밀번호>
```

