# 포팅 매뉴얼

## 1. Gitlab 소스 클론 이후 빌드 및 배포

## 사용 기술

```
1. JVM
- Zulu 8
2. IDE
- Intellij IDEA 2022.1 (Ultimate Edition)
- VS Code
```

## 배포 과정

## 방화벽 설정

```
sudo ufw allow 22
sudo ufw allow 80
sudo ufw allow 443
sudo ufw allow 3000
sudo ufw allow 3001
sudo ufw allow 8080
sudo ufw allow 8081
```

## Docker 설치

```
sudo apt-get update
sudo apt-get install \
    ca-certificates \
    curl \
    gnupg \
    lsb-release
sudo mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/a
pt/keyrings/docker.gpg
echo \
    "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] http
s://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/nul
l
sudo apt-get update
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-compose-plugin
```

### Jenkins 설치

#### docker-compose.yml

#### Jenkins 내부에 Docker 설치

```
apt-get update
apt-get install \
    ca-certificates \
    curl \
    gnupg \
    lsb-release
mkdir -p /etc/apt/keyrings
curl -fsSL https://download.docker.com/linux/debian/gpg | gpg --dearmor -o /etc/apt/ke
yrings/docker.gpg
echo \
    "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] http
s://download.docker.com/linux/debian \
    $(lsb_release -cs) stable" | tee /etc/apt/sources.list.d/docker.list > /dev/null
apt-get update
apt-get install docker-ce docker-ce-cli containerd.io docker-compose-plugin
```

#### Jenkins Send build artifacts over SSH Exec command

### **Docker image**

docker-compose.yml

```
version: "3.7"
services:
 nginx:
   image: nginx:1.23.2-alpine
    container_name: nginx
    ports:
     - "80:80"
      - "443:443"
    volumes:
      - /etc/letsencrypt:/etc/letsencrypt
      - /home/ubuntu/jenkins_compose/jenkins_home/workspace/errorshift/config/nginx.co
nf:/etc/nginx/nginx.conf
    depends_on:
      - front
      - file_server
  front:
    build: /home/ubuntu/jenkins_compose/jenkins_home/workspace/errorshift/frontend
    container_name: front
    expose:
      - "3000"
    environment:
      - TZ=Asia/Seoul
  file_server:
    build: /home/ubuntu/jenkins_compose/jenkins_home/workspace/errorshift/fileServer
    container_name: file_server
    expose:
      - "3001"
    environment:
      - TZ=Asia/Seoul
```

#### nginx.conf

```
user nginx;
worker_processes auto;
error_log /var/log/nginx/error.log warn;
pid
          /var/run/nginx.pid;
events {
   worker_connections 1024;
}
http {
              /etc/nginx/mime.types;
   include
    default_type application/octet-stream;
    upstream front {
       server front:3000;
    upstream file_server {
       server file_server:3001;
    }
```

```
server {
    if ($host = www.errorshift.com) {
       return 301 http://errorshift.com$request_uri;
    if ($host = k7e206.p.ssafy.io) {
        return 301 http://errorshift.com$request_uri;
    if ($host = 13.124.236.47) {
        return 301 http://errorshift.com$request_uri;
    }
    listen 80;
    listen [::]:80;
}
server {
   listen 80;
    listen [::]:80;
    server_name errorshift.com;
    server_tokens off;
    location / {
        return 301 https://errorshift.com$request_uri;
    }
}
server {
    if ($host = www.errorshift.com) {
        return 301 https://errorshift.com$request_uri;
    if ($host = k7e206.p.ssafy.io) {
       return 301 https://errorshift.com$request_uri;
    if ($host = 13.124.236.47) {
        return 301 https://errorshift.com$request_uri;
    }
    listen 443 ssl;
    listen [::]:443 ssl;
    ssl_certificate /etc/letsencrypt/live/errorshift.com/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/errorshift.com/privkey.pem;
}
server {
    listen 443 ssl;
    listen [::]:443 ssl;
    server_name errorshift.com;
    server_tokens off;
    ssl_certificate /etc/letsencrypt/live/errorshift.com/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/errorshift.com/privkey.pem;
    root /usr/share/nginx/html;
    index index.html;
    location / {
```

## 2. 시연 시나리오

```
import com.ssafy.e206.annotation.ErrorShift;

@ErrorShift(exception = NullPointerException.class, userResPackage = "com.example.test.response.UserResponse")
@ErrorShift(exception = HttpRequestMethodNotSupportedException.class, language = "ko", logging = true)
@ErrorShift(exception = HttpMediaTypeNotSupportedException.class, language = "ko", logging = true)
@ErrorShift(exception = ArrithmeticException.class, language = "ko", message = "Arithmetic -> 수 문제 때문에 나는 에러")
@ErrorShift(exception = ArrayIndexOutOfBoundsException.class, language = "ko", message = "배열 인덱스 확인 하기")
@FrrorShift(exception = ClassCastException.class, language = "ko", prettyRes = true, trace = true )
@ErrorShift(exception = IndexOutOfBoundsException.class, language = "ko", message = "인덱스 범위 확인 해보기")
@ErrorShift(exception = NumberFormatException.class, language = "ko", message = "0 으로 나눌 때 발생할 수 있음.")
@ErrorShift(exception = MaxUploadSizeExceededException.class, language = "ko", trace = true, prettyRes = true, logging = true)
@ErrorShift(exception = NoHandlerFoundException.class, language = "ko", message = "요청 발는 애가 없음" )
@ControllerAdvice
public class GlobalExceptionHandler {
}
```

```
gerrorShift(exception = NullPointerException.class, prettyRes = true language = "ko", logging = true, httpStatus = HttpStatus.BAD_REQUEST, message = "사용자 메세지 입니다.")
                                                                                           Status: 400 Bad Request Time: 21 ms Size: 883 B Save Response
      Pretty Raw Preview Visualize JSON V
                                                                                                                                      © Q
                "요약": "com.example.test.controller.GetController 클래스 83째 줄 test 메소드에서 NullPointerException이 발생했습니다.",
"성세": {
                    " : :
"에러 메시지": "NullPointerException",
                   "매러 배시시": "NullPointerException",
"매러 발생 위치: [
"파일 이름": "GetController.java",
"플러스 이름": "com. example.test.controller.GetController",
"발생 라만": 83,
"메소드 이름": "test"
                },
"서용자 메시지": "사용자 메세지 입니다.",
"추가 정보": {
"요청 URL": "/api/v1/gst-api/test",
"말챙 시각": "2022-11-16701121:01.614+00:00",
"메시지": "No message available"
         17
18
19
20
21
                ],
"HTTP": {
"에런 종류": "Bad Request",
"HTTP 상태 코드": 400
         22
  @ErrorShift(exception = NullPointerException.class, userResPackage = "com.example.test.response.UserRespons
       "error": "Internal Server Error",
"사용자 커스텀 리스폰스": {
            "사용자 메시지": "메세지 1",
            "사용자 메시지2": {
                 "사용자 메시지3": "메세지 2",
                 "사용자 메시지4": "메세지 3",
                "사용자 메시지5": "메세지 4",
                "사용자 메시지6": "메세지 5"
        "More Info": {
            "Request URL": "/api/v1/get-api/test",
            "Message": "No message available",
            "Timestamp": "2022-11-16T01:38:51.828+00:00"
            "Http Status": 500,
            "Error": "Internal Server Error"
  @ErrorShift(exception = NullPointerException.class, userResPackage = "com.example.test.response.UserResponse")
       "사용자 커스텀 리스폰스": {
            "사용자 메시지": "메세지 1",
            "사용자 메시지2": {
                 "사용자 메시지3": "메세지 2",
                 "사용자 메시지4": "메세지 3",
                 "사용자 메시지5": "메세지 4",
"사용자 메시지6": "메세지 5"
       },
"More Info": {
            "Request URL": "/api/v1/get-api/test",
            "Message": "No message available",
            "Timestamp": "2022-11-16T01:38:51.828+00:00"
       7.
       "HTTP": {
            "Http Status": 500,
            "Error": "Internal Server Error"
```