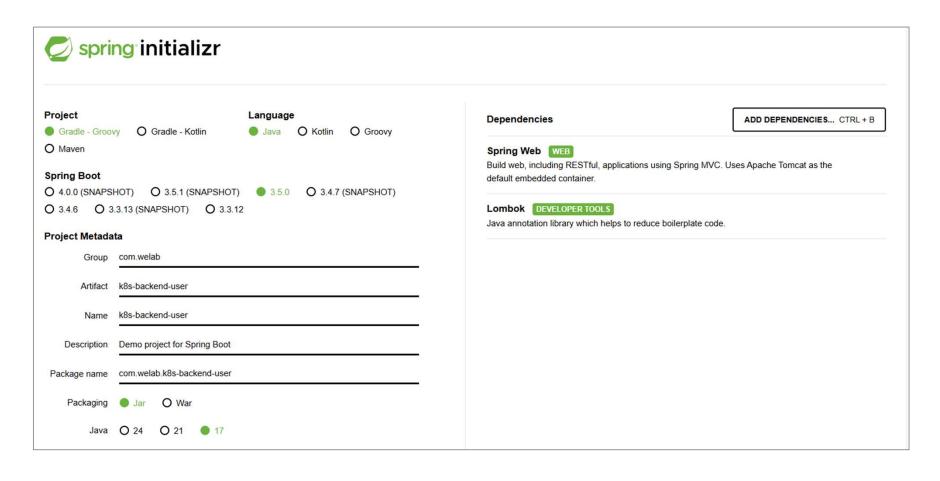
# 디플로이먼트, 노드포트, 서비스 backend-user

#### backend-user 프로젝트 생성

https://start.spring.io/ 접속

Artifact: k8s-backend-user



# backend-user 프로젝트 build.gradle 수정



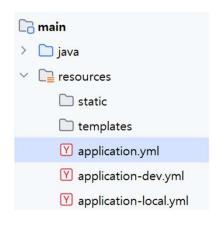
```
plugins {
  id 'java'
  id 'org.springframework.boot' version '3.5.0'
  id 'io.spring.dependency-management' version '1.1.7'
group = 'com.welab'
                          -SNAPSHOP 제거
version = '0.0.1'
tasks.named('test') {
  useJUnitPlatform()
jar {
  enabled = false // plain.jar 생성 완전히 비활성화
tasks.register('getAppName') {
  doLast {
    println "${rootProject.name}"
tasks.register('getAppVersion') {
  doLast {
    println "${project.version}"
```

추가

#### backend-user 프로젝트 기본 세팅

- ✓ 파일 > 프로젝트 구조 > SDK 확인
- ✔ application.yml, application-local.yml, application-dev.yml 설정 분리
  - application.properties는 삭제
- ✓ active profiles 지정
  - Community 버전: VM 옵션에 -Dspring.profiles.active=local 입력
  - Ultimate 버전: 활성 프로파일에 local 입력
- ✓ 기본 코드 세팅
  - ApiResponseDto (응답 메시지 정규화 @NoArgsContructor 포함할 것)
  - ApiError, ClientError 등 Api Exception
  - ApiCommonAdvice (에러 응답 처리)

#### backend-user 프로퍼티 설정



spring:
application:
name: k8s-backend-user

application.yml

server: port: 8080

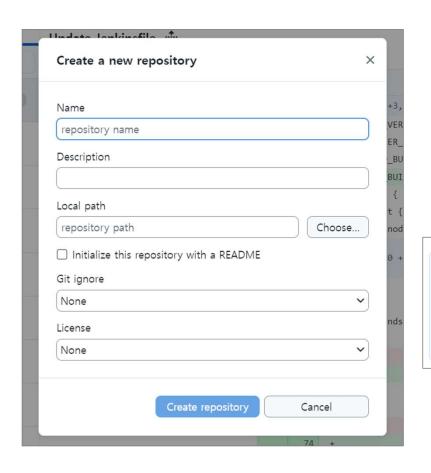
application-local.yml application-dev.yml

#### backend-user: UserController 추가



```
@Slf4j
@RestController
@RequestMapping(value = "/api/user/v1", produces = MediaType.APPLICATION_JSON_VALUE)
@RequiredArgsConstructor
public class UserController {
    @GetMapping(value = "/hello")
    public ApiResponseDto<String> hello() {
        return ApiResponseDto.createOk("웰컴 투 백엔드 유저");
    }
}
```

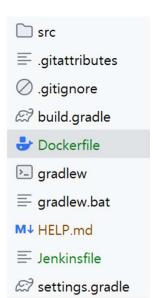
## api-gateway: Repository 생성 및 Publish



Name: k8s-backend-user Local path: C:₩Workspace₩k8s

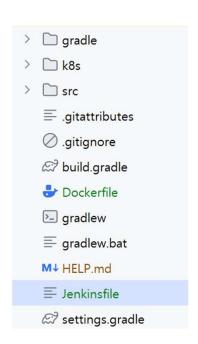


#### backend-user: Dockerfile 파일을 프로젝트에 추가



FROM amazoncorretto:17
MAINTAINER dev@welab.com
VOLUME /tmp
EXPOSE 8080
COPY build/libs/\*.jar /app.jar
ENTRYPOINT ["java", "-Djava.security.egd=file:/dev/./urandom", "-jar", "/app.jar"]

#### backend-user : Jenkins 파일을 프로젝트에 추가

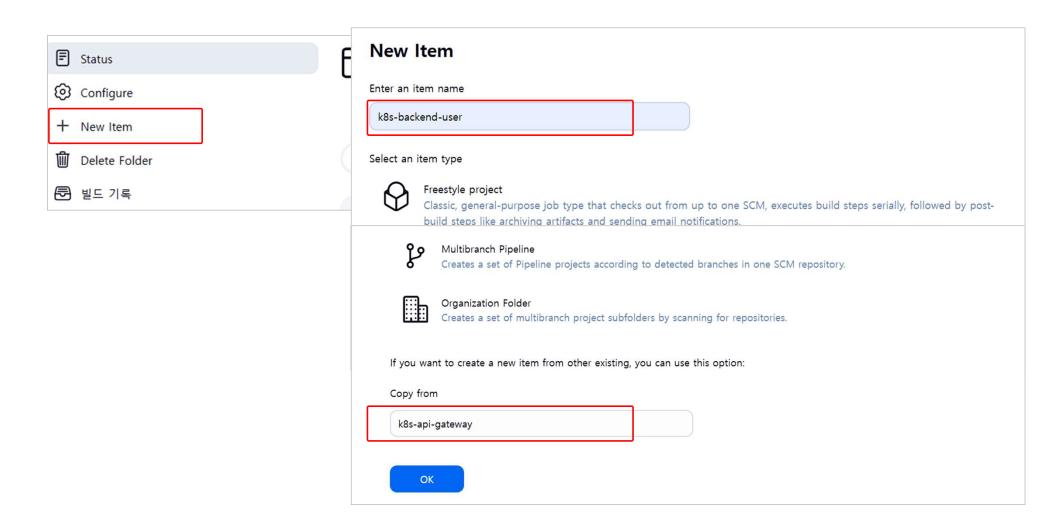


```
pipeline {
    ...
    environment {
        GIT_URL = "https://github.com/solarhc/k8s-backend-user.git"
        GITHUB_CREDENTIAL = "github-token"
        ARTIFACTS = "build/libs/**"
        DOCKER_REGISTRY = "solarhc"
        DOCKERHUB_CREDENTIAL = 'dockerhub-token'
    }
    ...
}
```

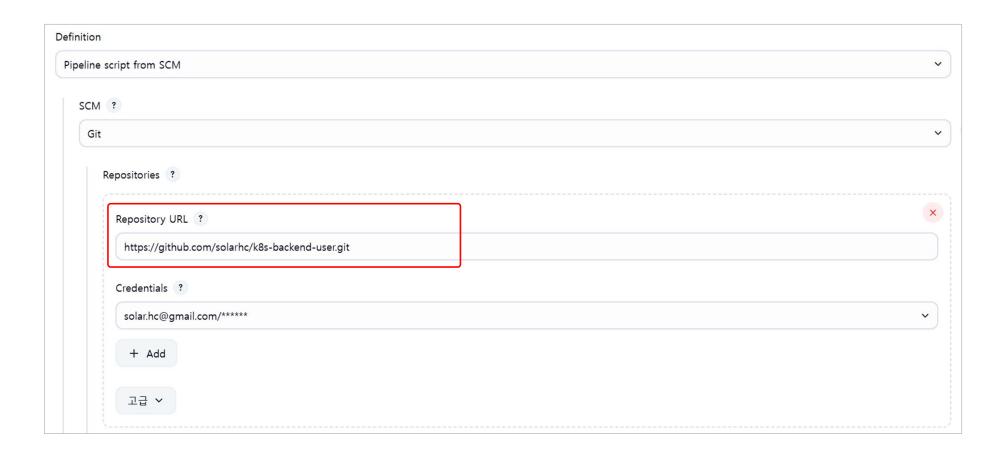
backend-user : 코드 commit & push

# **Commit & Push to Github**

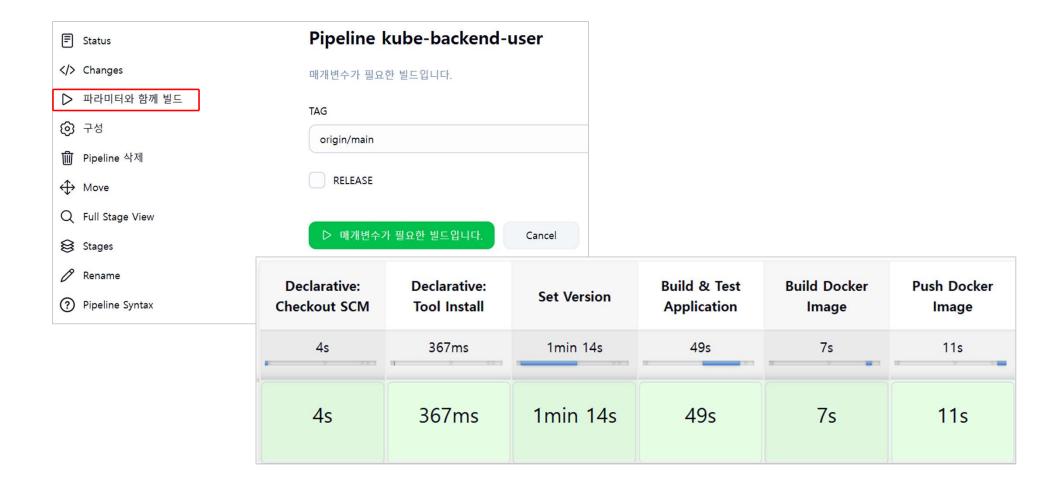
## backend-user: Jenkins Pipeline 생성



# backend-user : Jenkins Pipeline SCM URL 수정



## backend-user: Jenkins Pipeline 빌드



#### backend-user : K8S deployment.yaml 작성 및 적용

```
apiVersion: apps/v1
kind: Deployment
metadata:
name: k8s-backend-user-deployment
spec:
 replicas: 1
 selector:
  matchLabels:
   app: k8s-backend-user
 template:
  metadata:
   labels:
    app: k8s-backend-user
  spec:
   containers:
   - name: k8s-backend-user
    image: solarhc/k8s-backend-user:0.0.1
    imagePullPolicy: Always
    env:
    - name: SPRING PROFILES ACTIVE
     value: dev
    ports:
    - containerPort: 8080
```

k8s-backend-user-deploy.yaml



### backend-user: K8S service.yaml 작성 및 적용

```
apiVersion: v1
kind: Service
metadata:
  name: k8s-backend-user-service
spec:
  ports:
    - port: 8080
      targetPort: 8080
  selector:
    app: k8s-backend-user
```

k8s-backend-user-service.yaml

입력을 통해 생성 파일을 통해 생성 서식을 통해 생성 현재 선택된 네임스페이스에 생성할 리소스를 명시하는 YAML 또는 JSON 1 apiVersion: v1 2 kind: Service 3 - metadata: 4 name: k8s-backend-user-service 6 → ports: - port: 8080 targetPort: 8080 9 \* selector: 10 app: k8s-backend-user 업로드 Cancel