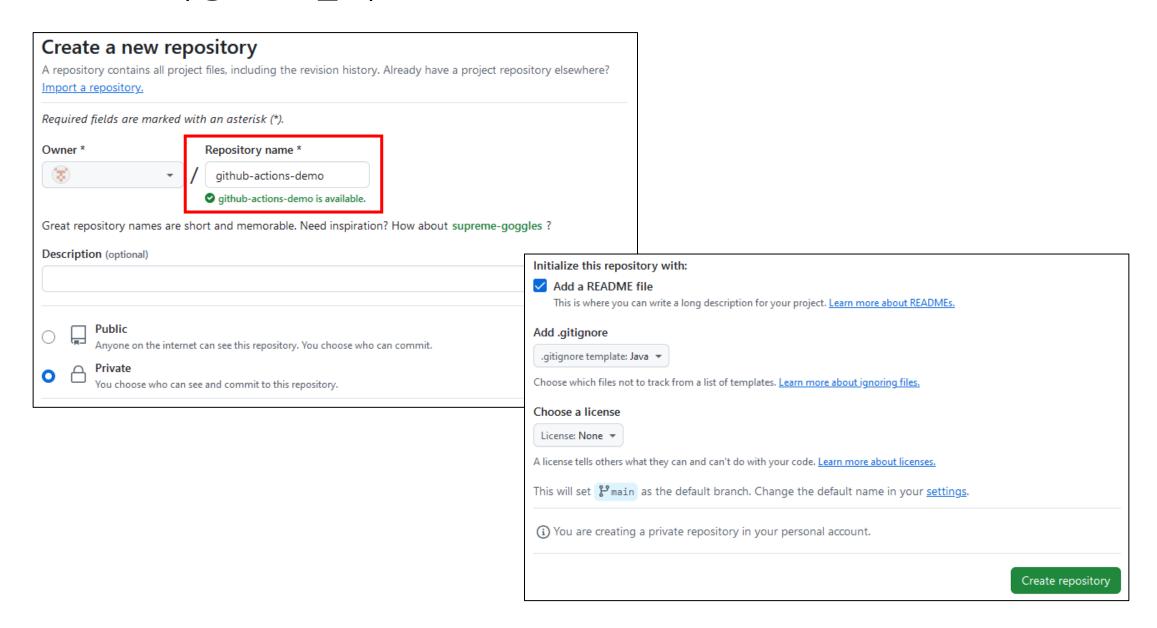
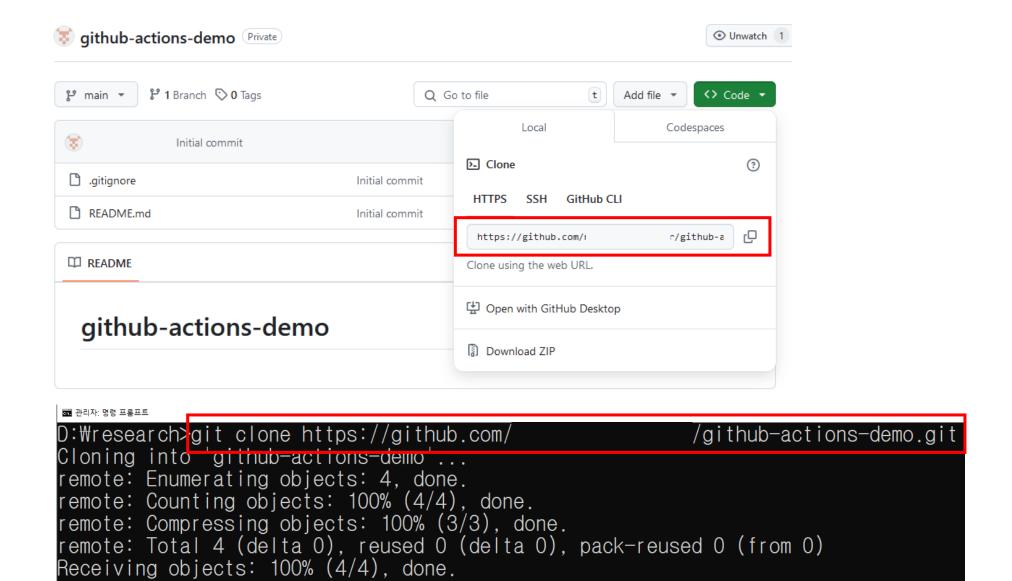


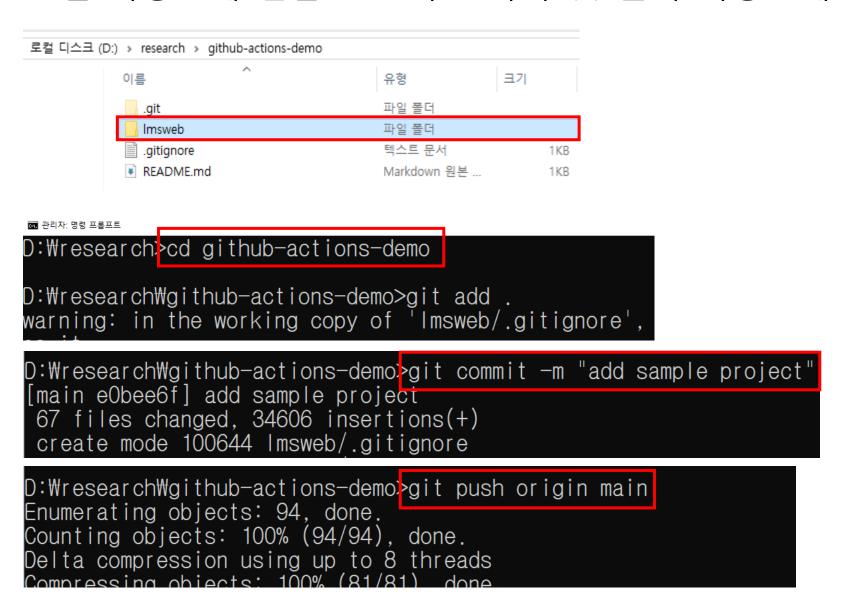
### Github 저장소 만들기



### 로컬 저장소 만들기



### 로컬 저장소에 샘플 프로젝트 복사 및 원격 저장소에 적용



### branch 만들기

main branch를 기반으로 deploy-demo branch 생성

```
관리자: 명령 프롬프트
D:\research\github-actions-demo>git branch --list
                                                                                              github-actions-demo Private
  main
D:\research\github-actions-demo>git branch deploy-demo main

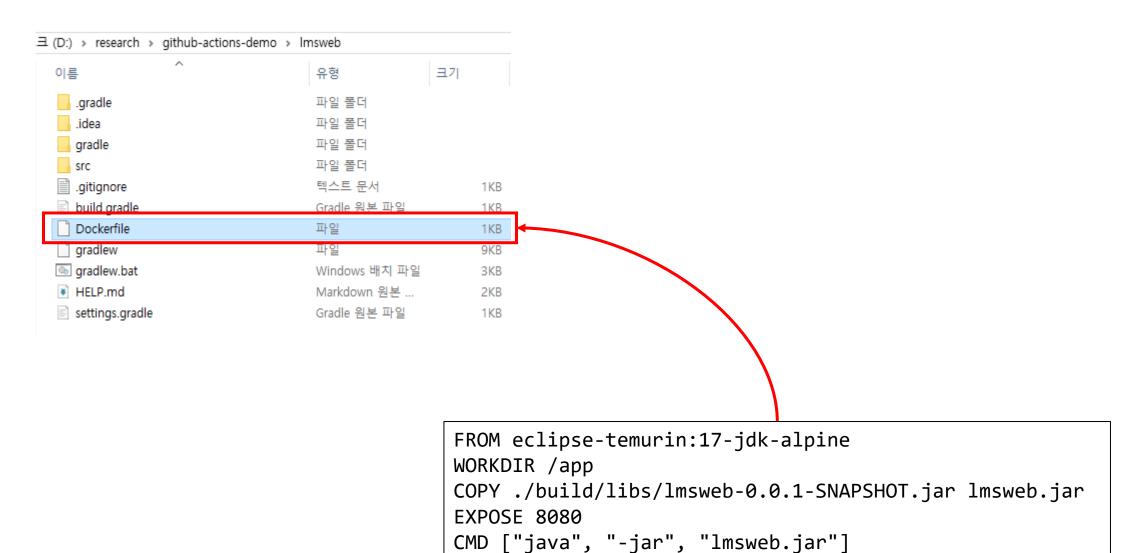
    P 2 Branches 
    O Tags

                                                                                             Switch branches/tags
D:\research\github-actions-demo>git branch --list
                                                                                             Q Find or create a branch...
  deploy-demo
  main
                                                                                             Branches Tags
D:\research\github-actions-demo>git checkout deploy-demo

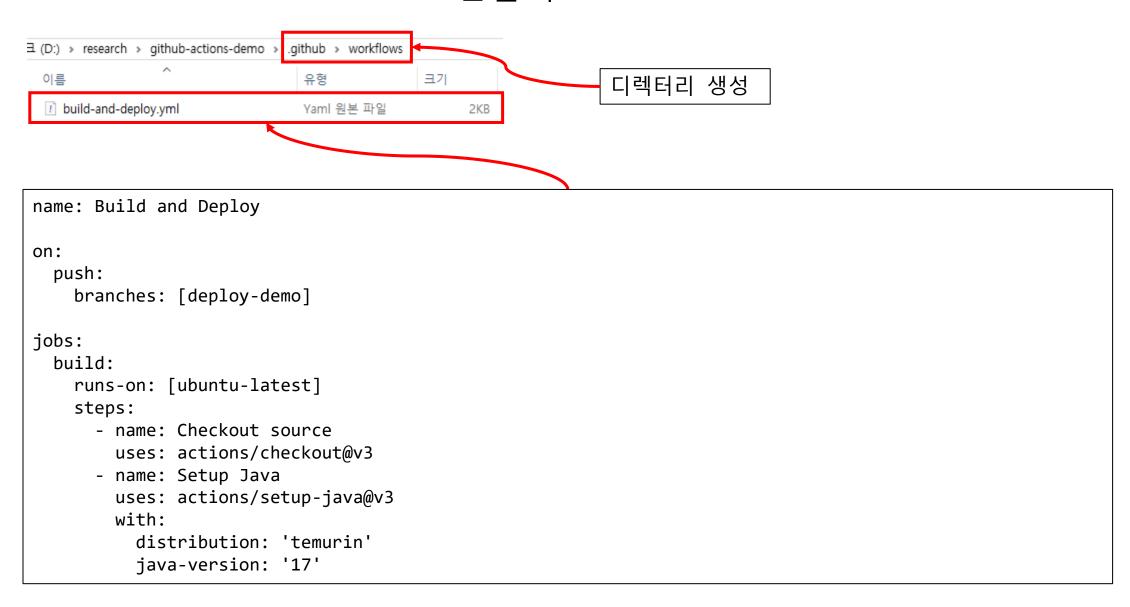
✓ main

                                                                                                                  default
Switched to branch 'deploy-demo
                                                                                              deploy-demo
D:\research\github-actions-demo>git branch --list
                                                                                             View all branches
  deploy-demo
  main
                                                                                              github-actions-demo
D:\research\github-actions-demo>git push origin deploy-demo
Total O (delta O), reused O (delta O), pack-reused O (from O)
remote:
remote: Create a pull request for 'deploy-demo' on GitHub by visiting:
               https://github.com/
                                                          /github-actions-demo/pull/new/deploy-demo
remote:
remote:
To https://github.com/
                                            /github-actions-demo.git
   [new branch] deploy-demo -> deploy-demo
```

# 프로젝트에 Dockerfile 추가



### Github Actions Workflow 만들기

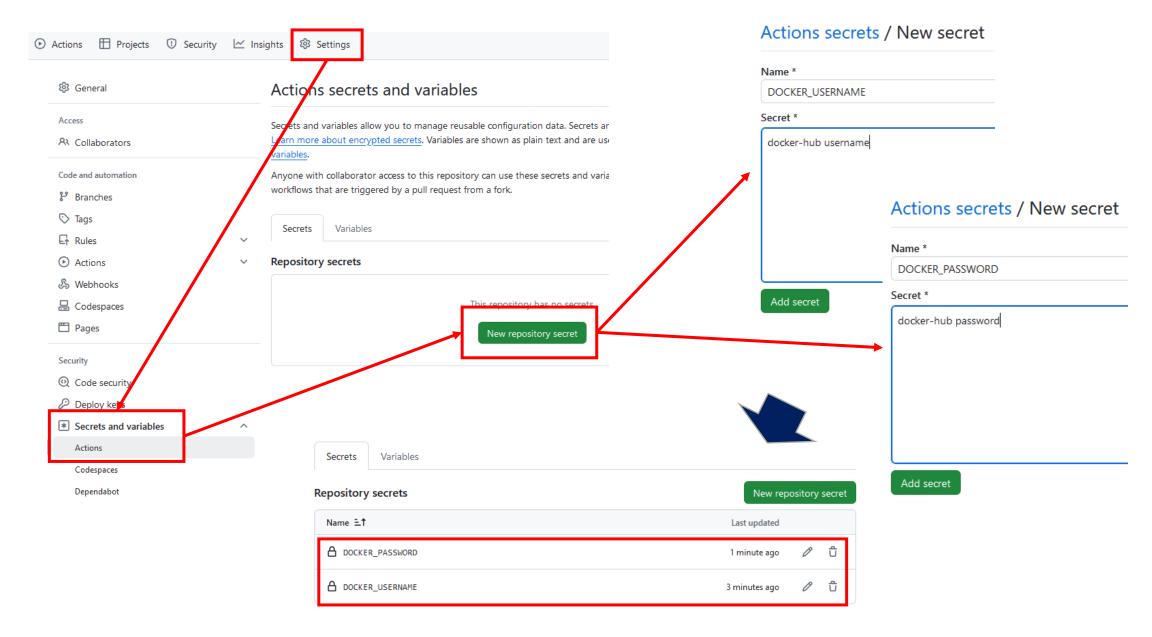


# Github Actions Workflow 만들기 (계속)

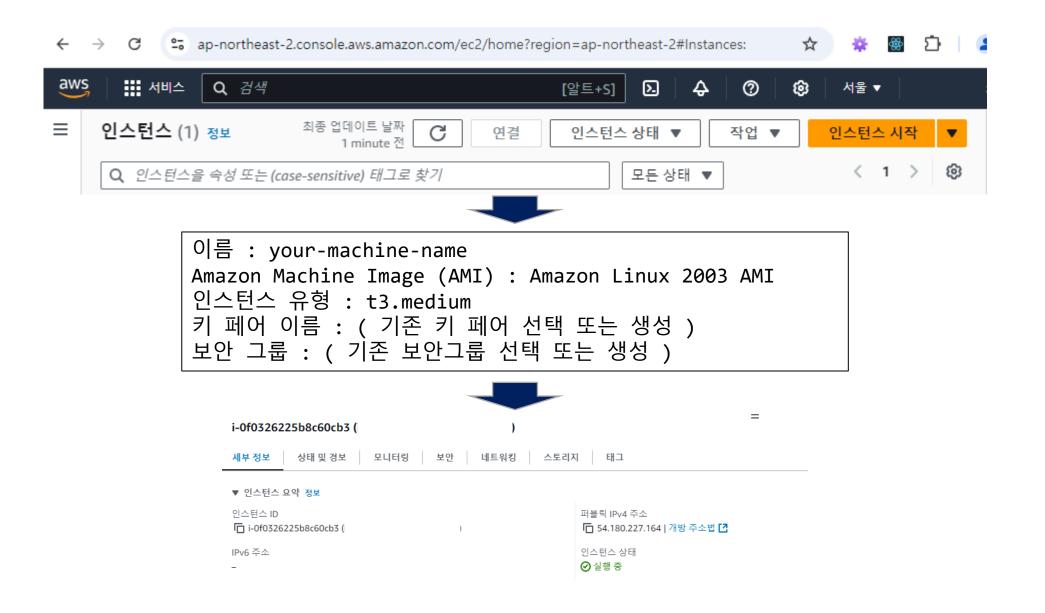
■ workflow 파일 (계속)

```
- name: Build Project
      run: lmsweb/gradlew -p lmsweb bootJar
    - name: Login to docker hub
      run: docker login -u ${{secrets.DOCKER_USERNAME}} -p ${{secrets.DOCKER_PASSWORD}}
    - name: Build docker image
      run: docker build -t shared1repo1z 1 msweb
    - name: Publish image to docker hub
      run: docker push shared1repo1z / lmsweb: latest
deploy:
                                                     Github Settings → Security에 등록
  needs: build
 runs-on: [aws-ec2]
                                                     각 사용자 계정으로 변경
  steps:
    - name: Pull Image <u>from docker hub</u>
      run: docker pull shared1repo1z/lmsweb:latest
    - name: Delete old container
      run: docker rm -f lmsweb-container
    - name: Run docker container
      run: docker run -d -p 8080:8080 --name lmsweb-container shared1repo1z/lmsweb
```

## Github Secrets 환경 변수에 Docker Hub 계정 정보 등록



### AWS EC2 Machine 만들기



### EC2 Machine에 Docker 등 유틸리티 설치

#### ■ Docker 설치

```
[ec2-user@i ]$ sudo yum update -y
Last metadata expiration check: 0:09:57 ago on Tue Oct 1 06:25:08 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-5-53 ~]$ sudo yum install -y docker
Last metadata expiration check: 0:10:03 ago on Tue Oct 1 06:25:08 2024.
Dependencies resolved.
```

### ■ Docker 서비스 시작

## EC2 Machine에 Docker 등 유틸리티 설치

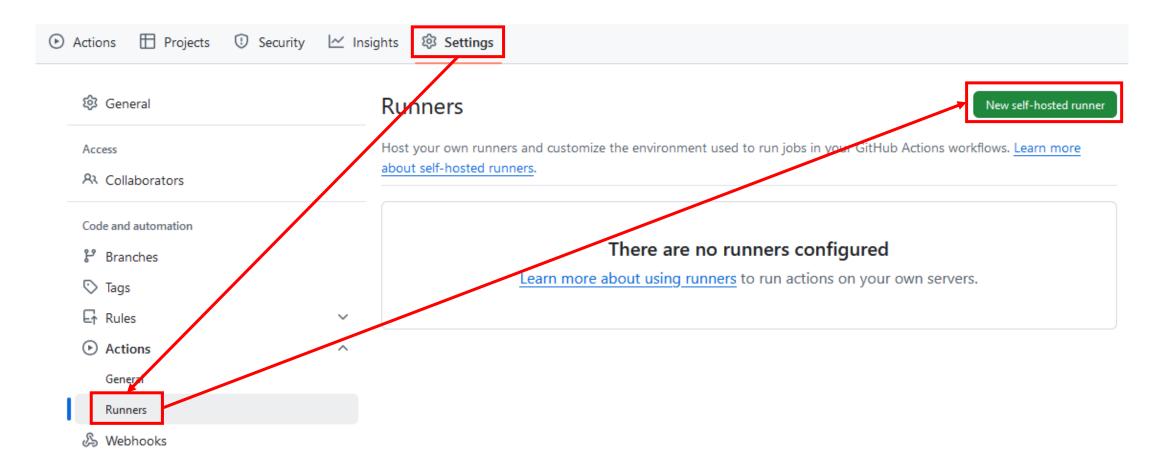
■ ec2-user에 docker 실행 권한 부여

```
[ec2-user@ip-172-31-5-53 ~]$
[ec2-user@ip-172-31-5-53 ~]$
[ec2-user@ip-172-31-5-53 ~]$
[ec2-user@ip-172-31-5-53 ~]$ sudo usermod -a -G docker ec2-user
```

- ec2 machine에서 exit 실행 후 다시 접속
- dotnet-sdk 설치

```
[ec2-user@i ]$ sudo yum install -y dotnet-sdk-6.0
Last metadata expiration check: 0:27:16 ago on Tue Oct 1 06:25:08 2024.
Dependencies resolved.
```

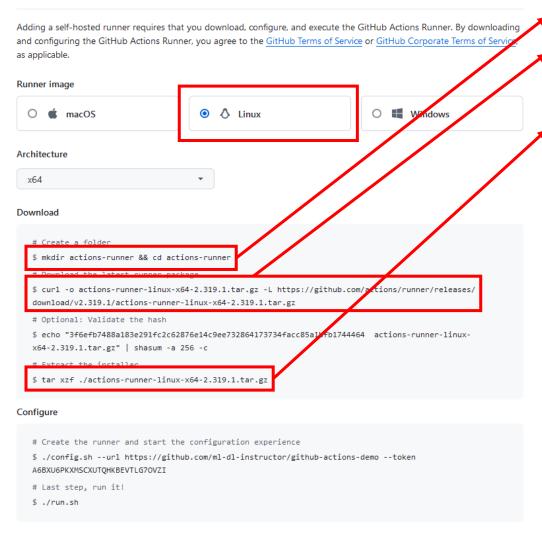
### Github Actions Runner 등록



# Github Actions Runner 등록 (계속)

 $\underline{Runners} \ / \ Add \ new \ self-hosted \ runner \cdot ml-dl-instructor/github-actions-$ 

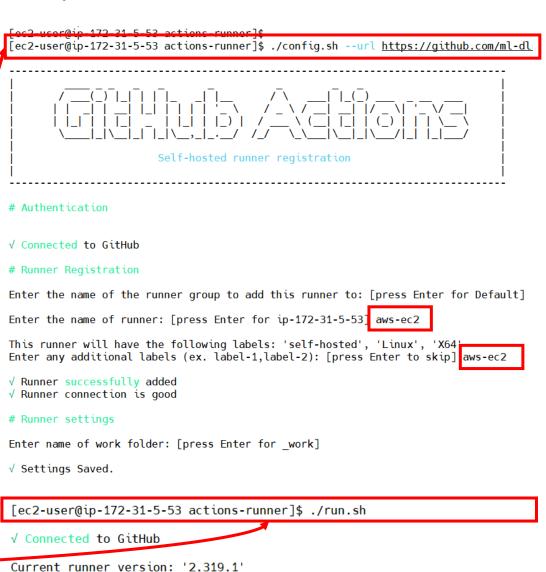
#### demo



# Github Actions Runner 등록 (계속)

Runners / Add new self-hosted runner · ml-dl-instructor/github-actionsdemo Adding a self-hosted runner requires that you download, configure, and execute the GitHub Actions Runner. By downloading and configuring the GitHub Actions Runner, you agree to the GitHub Terms of Service or GitHub Corporate Terms of Service, as applicable. Runner image O 👌 Linux macOS Windows Architecture x64 Download # Create a folder \$ mkdir actions-runner && cd actions-runner # Download the latest runner package \$ curl -o actions-runner-linux-x64-2.319.1.tar.gz -L https://github.com/actions/runner/releases download/v2.319.1/actions-runner-linux-x64-2.319.1.tar.gz # Optional: Validate the hash \$ echo "3f6efb7488a183e291fc2c62876e14c9ee732864173734facc85a1bfb1744464 actions-runner-linuxx64-2.319.1.tar.gz" | shasum -a 256 -c # Extract the installer \$ tar xzf ./actions-runner-linux-x64-2.319.1.tar.gz Configure # Create the runner and start the configuration experience \$ ./config.sh --url https://github.com/ml-dl-instructor/github-actions-demo --token A6BXU6PKXMSCXUTQHKBEVTLG70VZI # Last sten. run it!

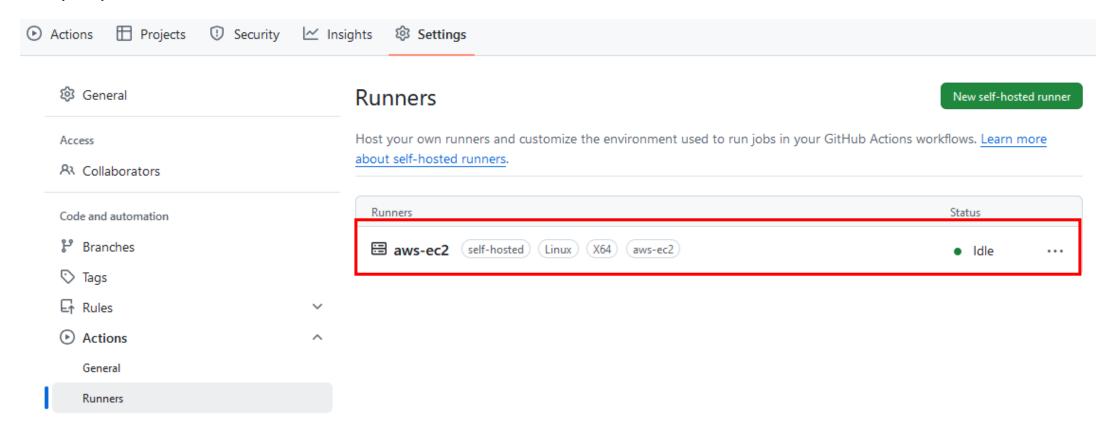
\$ ./run.sh



2024-10-01 07:29:16Z: Listening for Jobs

# Github Actions Runner 등록 (계속)

### ■ 등록 확인



# 실행 확인

■ add → commit → push 실행

■ github 저장소에서 workflow 실행 확인

