

# Jenkins CI/CD 절차

- # Jenkins URL
- 1. Jenkins CI
- 2. Bitbucket Commit
- 3. Jenkins CD

## # Jenkins URL

젠킨스 접속을 위해 아래 도메인 및 IP를 hosts 파일에 등록해야 한다.

용도	URL	IP
개발 & 스테이징	b0bfm-devjenkins.kbonecloud.com	10.138.71.76
운영	b0bfm-jenkins.kbonecloud.com	10.136.71.39

## 1. Jenkins CI

The screenshot shows the Jenkins dashboard with the '02\_DEV\_AVM' view selected. The 'dev-avm-build' job is highlighted with a blue box and a '2' label. The '02\_DEV\_AVM' view is also highlighted with a blue box and a '1' label.

S	W	Name ↓	최근 성공	최근 실패	최근 소요 시간	
		dev-avm-build	11 min - #32	21 hr - #31	1 min 30 sec	
		dev-avm-cd	2 days 13 hr - #1	—	29 sec	

1) 빌드하고자 하는 서비스명의 뷰(View)를 클릭한다.

2) <환경명-서비스명-build>의 잡(Job)을 클릭한다.

- ex) dev-avm-build / stg-databatch-build / prd-web-build

Jenkins

Dashboard > 02\_DEV\_AVM > dev-avm-build

Back to Dashboard

Status

Changes

**Build with Parameters** <sup>3</sup>

구성

Pipeline 삭제

Full Stage View

블루 오션 열기

Rename

Pipeline Syntax

Build History 주이

find

#32 2022.4.22 오전 10:23

## Pipeline dev-avm-build

상세 내용 입력

프로젝트 중지하기

Recent Changes

### Stage View

Average stage times:  
(Average full run time: ~1min)

	Declarative: Tool Install	Checkout	Build	Docker_Image_Build
Average	177ms	2s	49s	37s
#32	177ms	2s	49s	37s

Apr 22 10:23 1 commit

### 고정링크

- Last build, (#32), 13 min 전
- Last stable build, (#32), 13 min 전

3) Build with Parameters 를 클릭한다.

Jenkins

Dashboard > 02\_DEV\_AVM > dev-avm-build

Back to Dashboard

Status

Changes

**Build with Parameters**

구성

Pipeline 삭제

Full Stage View

블루 오션 열기

Rename

Pipeline Syntax

Build History 주이

find

#32 2022.4.22 오전 10:23

## Pipeline dev-avm-build

매개변수가 필요한 빌드입니다.

**4** APP\_VER

0.1.32

버전을 입력하세요  
예: 1.0.1

**5** 빌드하기

4) 빌드를 위한 APP\_VER(=반영할 이미지 버전)을 입력한다.

5) 빌드를 실행한다.

The screenshot shows the Jenkins interface for the 'dev-avm-build' pipeline. The left sidebar contains navigation links: Back to Dashboard, Status, Changes, Build with Parameters, 구성, Pipeline 삭제, Full Stage View, 블루 옵션 열기, Rename, Pipeline Syntax, Build History, and a search bar. The main area displays the 'Pipeline dev-avm-build' page with a 'Recent Changes' section and a 'Stage View' table. The 'Stage View' table shows the following data:

Stage	Declarative: Tool Install	Checkout	Build	Docker_Image_Build
Average stage times: (Average full run time: ~1min 30s)	168ms	2s	30s	19s
#33 Apr 22 10:41 No Changes	159ms	1s	10s	
1min 15s				
#32 Apr 22 10:23 1 commit	177ms	2s	49s	37s

Annotations: A blue box labeled '6' highlights the 'Stage View' table. A blue box labeled '7' highlights the 'Build History' section, specifically the entry for build #33 on 2022.4.22 오전 10:41.

6) Stage View build 반영 과정을 확인한다.

7) 클릭하여 상태를 확인한다.

The screenshot shows the Jenkins interface for build #33. The left sidebar contains navigation links: Back to Project, Status, Changes, Console Output, Edit Build Information, Delete build '#33', and Parameters. The main area displays the 'Build #33 (2022. 4. 22 오전 10:41:12)' page. The 'Console Output' link is highlighted with a blue box labeled '8'. The 'Parameters' link is highlighted with a blue box labeled '9'. The build details show the user '이가영(KB국민은행 KB부동산플랫폼부(P)) (S018054)' and the revision '2be4674a25655d5cca6df912bdcf91223e813865' from the 'refs/remotes/origin/devmaster' branch. The build status is 'Started 3 min 36 sec ago' and 'Took 46 sec'.

8) Console Output 클릭하여 아래의 두 이미지와 같이 Build 되는 로그 확인이 가능하다.

9) Parameters 클릭하여 APP\_VER 확인한다.

완료된 Build 이미지는 AWS Management Console > EKS > ECR repository에서 확인이 가능하다.



**Jenkins** 🔍 검색 🧑 로그아웃

Dashboard > 02\_DEV\_AVM > dev-avm-build > #33 > Parameters

[Back to Project](#)  
[Status](#)  
[Changes](#)  
[Console Output](#)  
[Edit Build Information](#)  
[Delete build '#33'](#)  
**Parameters**  
[Git Build Data](#)

## 빌드 #33

매개변수

APP\_VER

0.1.32

버전을 입력하세요  
예: 1.0.1

## 2. Bitbucket Commit

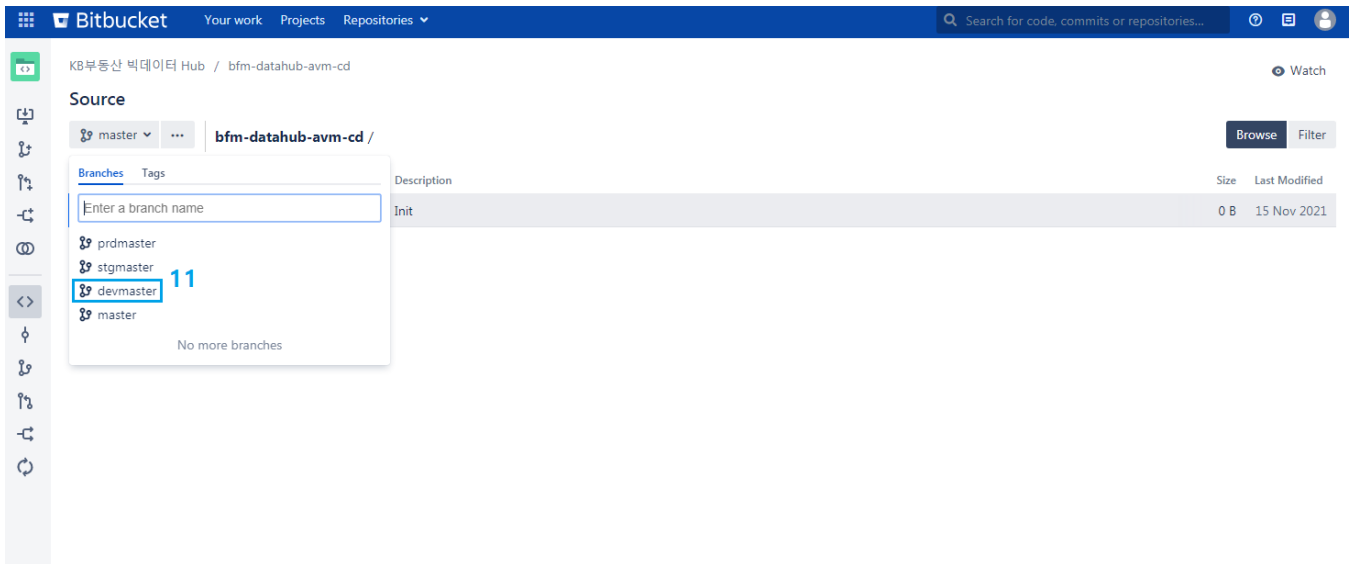
**Bitbucket** Your work Projects Repositories 🔍 Search for code, commits or repositories... 🧑

**Repositories**

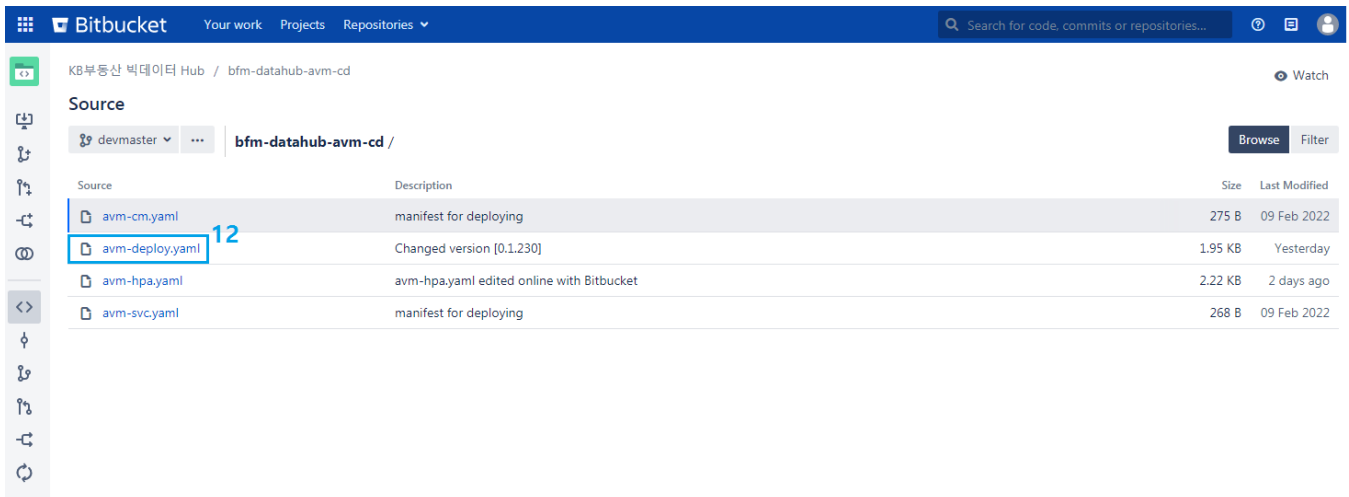
🔍 Filter repositories by name

Name	Description
bfm-datahub-adm	
bfm-datahub-adm-cd	
bfm-datahub-adm-gateway	
bfm-datahub-adm-gateway-cd	
bfm-datahub-avm	avm 시세
<b>bfm-datahub-avm-cd</b>	
bfm-datahub-databatch	빅데이터 배치
bfm-datahub-databatch-cd	
bfm-datahub-gateway	api gateway
bfm-datahub-gateway-cd	
bfm-datahub-inboundproxy	inbound gateway
bfm-datahub-inboundproxy-cd	
bfm-datahub-kbstatistics	kb 통계
bfm-datahub-kbstatistics-cd	
bfm-datahub-nginx	로컬 Nginx 서버
bfm-datahub-ob-cd	
bfm-datahub-publicbatch	
bfm-datahub-publicdata	공공 데이터
bfm-datahub-publicdata-cd	

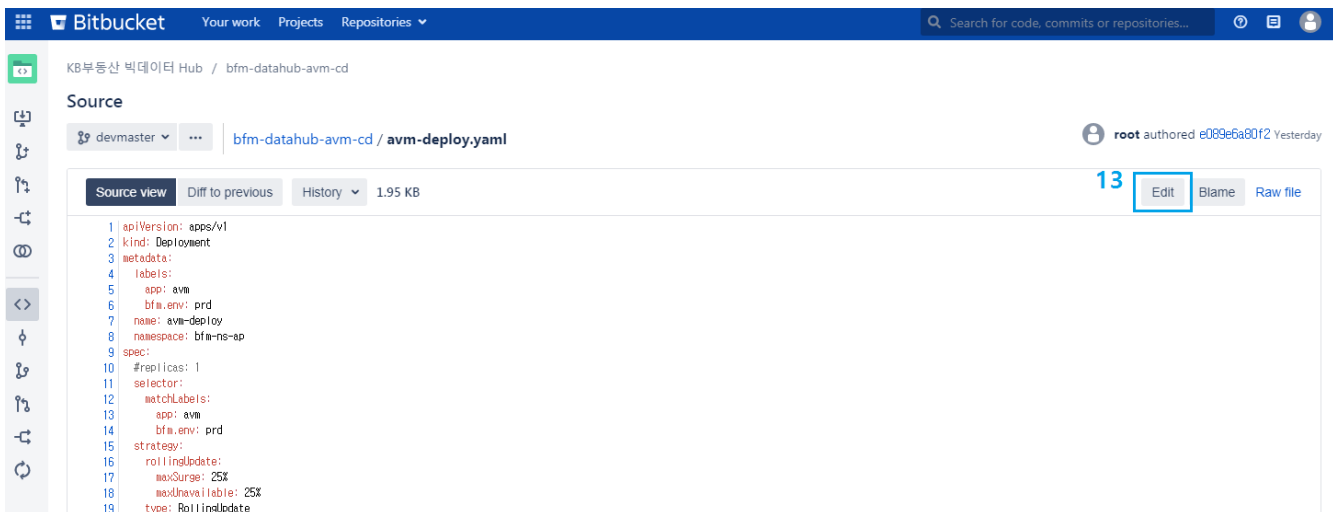
10) Repository 리스트 중 배포를 원하는 yaml 파일을 클릭한다.



11) 배포 할 클러스터 branch를 선택한다.



12) Build 된 이미지를 deployment yaml 파일에 반영하기 위해 \*-deploy.yaml을 클릭한다.



13) Edit을 클릭하여 수정 화면을 실행한다.

14

15

Commit Cancel

14) Jenkins에서 Build한 이미지 version으로 태그를 변경한다.

15) Commit을 클릭하여 배포할 이미지 태그를 변경한다.

## 3. Jenkins CD

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17

상태 내용 입력

S	W	Name ↓	최근 성공	최근 실패	최근 소요 시간
		dev-avm-build	22 min - #33	21 hr - #31	46 sec
		dev-avm-cd	2 days 14 hr - #1	—	29 sec

아이콘: S M L

Legend Atom feed 모두 Atom feed 실패 Atom feed 최근 빌드

1) 배포하고자 하는 서비스명의 뷰(View)를 클릭한다.

2) <환경명-서비스명-cd>의 잡(Job)을 클릭한다.

**Jenkins** | 검색 | ? | 로그아웃

Dashboard > 02\_DEV\_AVM > dev-avm-cd

Back to Dashboard

Status

Changes

**Build Now** 18

구성

Pipeline 삭제

Full Stage View

블루 오션 열기

Rename

Pipeline Syntax

**Build History** | 주이 ^

find

#1 2022.4.19 오후 8:38

Atom feed (전체) | Atom feed (실패)

## Pipeline dev-avm-cd

상세 내용 입력 | 프로젝트 중지하기

Recent Changes

### Stage View

Average stage times:  
(Average full run time: ~29s)

ArgoCD Deploy

29s

#1 Apr 19 20:38 No Changes

### 고정링크

- Last build, (#1), 2 days 14 hr 전
- Last stable build, (#1), 2 days 14 hr 전
- Last successful build, (#1), 2 days 14 hr 전
- Last completed build, (#1), 2 days 14 hr 전

18) Build Now를 눌러 배포를 실행한다.

**Jenkins** | 검색 | ? | 로그아웃

Dashboard > 02\_DEV\_AVM > dev-avm-cd

Back to Dashboard

Status

Changes

**Build Now** 19

구성

Pipeline 삭제

Full Stage View

블루 오션 열기

Rename

Pipeline Syntax

**Build History** | 주이 ^

find

#2 2022.4.22 오전 11:05

## Pipeline dev-avm-cd

상세 내용 입력 | 프로젝트 중지하기

Recent Changes

### Stage View

Average stage times:  
(Average full run time: ~29s)

ArgoCD Deploy

26s

#2 Apr 22 11:05 No Changes

4s

#1 Apr 19 20:38 No Changes

29s

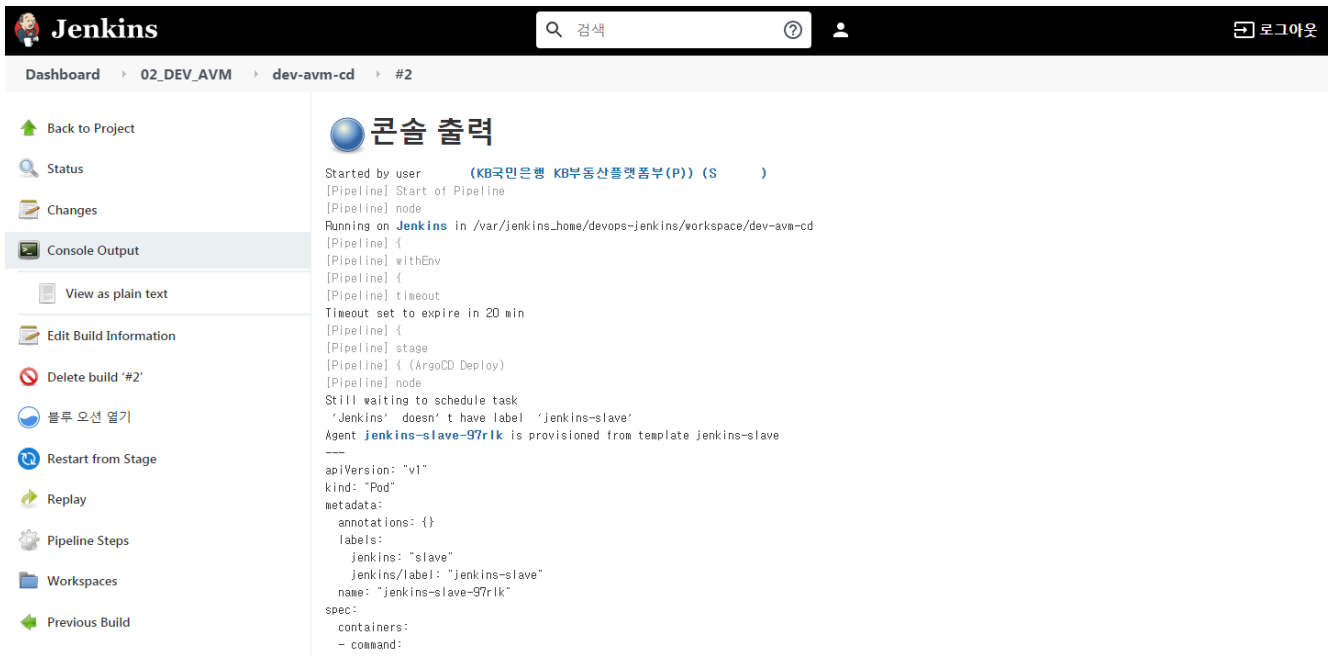
19) & 20) Stage View build 반영 과정을 모니터링하고 클릭하여 상태를 확인한다





The screenshot shows the Jenkins web interface for Build #2. The left sidebar contains navigation links: Back to Project, Status, Changes, Console Output (highlighted with a red box and the number 21), Edit Build Information, and Delete build '#2'. The main content area displays the build title 'Build #2 (2022. 4. 22 오전 11:05:28)' and a button '이번 빌드 영구 보관하기'. Below this, it shows the user '사용자 (KB국민은행 KB부동산플랫폼부(P))(S...)' and the status '상세 내용 입력' with timestamps 'Started 2 min 21 sec ago' and 'Took 35 sec'.

21) Console Output을 클릭, 배포 로그를 출력한다.



The screenshot shows the Jenkins 'Console Output' page. The left sidebar is identical to the previous screenshot, but 'Console Output' is now selected. The main content area is titled '콘솔 출력' and shows the build's execution details, including the user, pipeline stages, and a YAML configuration snippet for a Jenkins agent.

```
[ec2-user@m1e-dpm-d01 ~]$ kubectl describe pod -n bfm-ns-ap | grep -i image:
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-adm:0.1.78
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-adm:0.1.78
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-adm-gateway:0.1.17
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-adm-gateway:0.1.17
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-adm-gateway:0.1.17
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-avm:0.1.231
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-databatch:0.1.156
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-gateway:0.1.81
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-gateway:0.1.81
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-gateway:0.1.81
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-kbstatistics:0.1.222
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-kbstatistics:0.1.222
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-publicdata:0.1.164
Image: 666763412262.dkr.ecr.ap-northeast-2.amazonaws.com/bfm-ecr-publicdata:0.1.164
```

\$ kubectl describe pod -n 네임스페이스명 | grep -i image:

혹은

\$ kubectl get deployment -n 네임스페이스명 -o wide

명령어를 사용하여 배포한 APP의 이미지 버전을 확인한다.

```
[ec2-user@m1e-dpm-d01 ~]$ kubectl get pod -n bfm-ns-ap
```

NAME	READY	STATUS	RESTARTS	AGE
adm-deploy-5685d5c856-c6jms	1/1	Running	0	23h
adm-deploy-5685d5c856-sj6ps	1/1	Running	0	2d21h
adm-gateway-deploy-7cc994677d-5qmrr	1/1	Running	0	2d2h
adm-gateway-deploy-7cc994677d-66j4f	1/1	Running	0	2d16h
adm-gateway-deploy-7cc994677d-cjz5v	1/1	Running	0	43h
avm-deploy-8bd454f8c-rkq5f	1/1	Running	0	141m
databatch-deploy-68cb86444f-1nq9b	1/1	Running	0	2d22h
gateway-deploy-5967cdfddb-dvmnx	1/1	Running	20	2d1h
gateway-deploy-5967cdfddb-fgc7x	1/1	Running	20	47h
gateway-deploy-5967cdfddb-g2j54	1/1	Running	22	2d2h
kbstatistics-deploy-5fbb974c59-kx5gl	1/1	Running	0	20h
kbstatistics-deploy-5fbb974c59-s9ztr	1/1	Running	0	20h
publicdata-deploy-69f66b8fbc-mtpgg	1/1	Running	0	22h
publicdata-deploy-69f66b8fbc-vxxtz	1/1	Running	0	22h

\$ kubectl get pods -n 네임스페이스명

\$ kubectl get deployment -n 네임스페이스명

명령어를 사용하여 배포한 APP의 Running 상태를 확인한다.