## Infra CI/CD Jenkins 설정

## Java 설치

```
1. Java 8 설치
  sudo yum install -y java-1.8.0-openjdk-devel.x86_64
  2. Java version 변경
  sudo /usr/sbin/alternatives --config java
  2 + Enter
  3. Java 7 삭제
  sudo yum remove java-1.7.0-openjdk
  4. Java 8 확인
  java -version
Jenkins 설치
  1. yum update
  sudo yum update
  2. Jenkins 다운로드
  sudo wget -0 /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-
  stable/jenkins.repo
  3. Jenkins 저장소 키를 등록
  sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
  4. Jenkins 설치
  sudo yum install jenkins
```

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

5. Jenkins Password 코드를 설정

## Nginx 설치

1. Nginx 설치

```
sudo yum install nginx
```

2. proxy pass 설정

```
sudo vim /etc/nginx/nginx.conf
```

```
proxy_pass http://localhost:8080;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header Host $http_host;
```

3. Nginx 실행

```
sudo service nginx start
```

### Terraform 설치

```
sudo yum update
wget
https://releases.hashicorp.com/terraform/0.12.20/terraform_0.12.20_linux_amd64.z
ip
unzip terraform_0.12.20_linux_amd64.zip
sudo mv terraform /usr/bin/
```

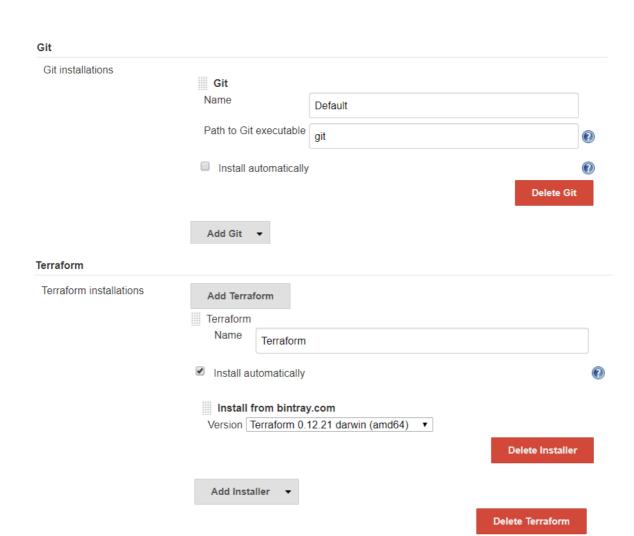
### Git 설치

```
sudo yum install git
which git # /usr/bin/git 이면 ok
```

## Plugin 설치 목록

- AWS CodePipeline Plugin
- <u>Pipeline: AWS Steps</u>
- Blue Ocean
- GitHub Authentication plugin
- <u>Pipeline</u>
- <u>Terraform Plugin</u>
- <u>Deploy to container Plugin</u>

## **Global Tool Configuration**

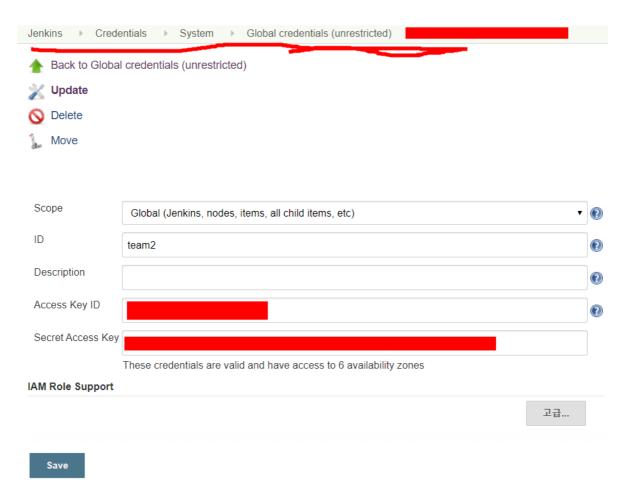


# 계정 정보 설정

Add Terraform

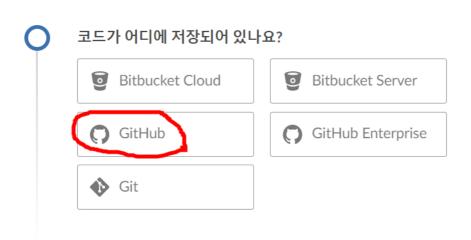
List of Terraform installations on this system

aws 계정 정보 설정



### Blue ocean





### 계정 정보 설정

/var/lib/jenkins/workspace/ 에 다음과 같은 변수 값을 지닌 var.json파일을 미리 생성해 두어야 한다.

```
"aws_access_key" : "access key value",
    "aws_secret_key" : "secret key value",
    "db_password" : "DB password",
    "db_username" : "DB master user name"
}
```

## CICD 수행 과정

1. Git clone

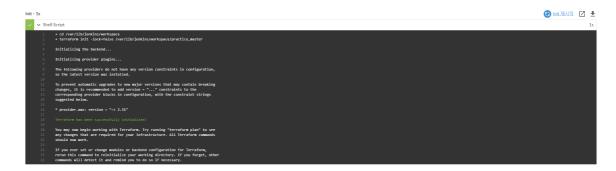


```
Check cut from version control

Compared to the control of the con
```

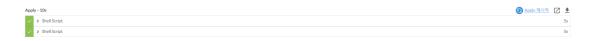
#### 2. terraform init



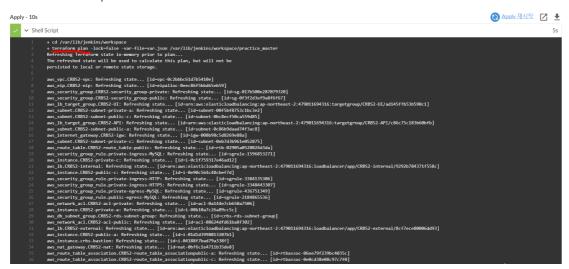


#### 3. terraform 실행

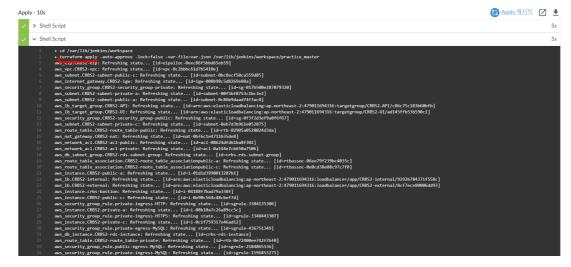




#### 1. terraform plan



#### 2. terraform apply



#### 4. 생성된 리소스 확인

- 1. 생성된 리소스 결과값 받기
- 2. Git에서 받아온 shell 파일 workspace로 이동
- 3. shell 파일과 리소스 결과값으로 resource cli script 완성

#### Check - 9s

4. script 결과물