

쿠버네티스를 활용한 멀티클라우드 도입과 운영전략

- AWS, Azure, GCP 비교와 실습

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Lab: Setting up Jenkins on Kubernetes Engine

Setting up Jenkins on Kubernetes Engine

- <https://github.com/GoogleCloudPlatform/continuous-deployment-on-kubernetes>
- **Kubernetes Engine에서 Jenkins 사용**
<https://cloud.google.com/solutions/jenkins-on-kubernetes-engine>

환경 준비

- `gcloud config set compute/zone asia-northeast1-a`
- `git clone https://github.com/GoogleCloudPlatform/continuous-deployment-on-kubernetes.git`
- `cd continuous-deployment-on-kubernetes`

Kubernetes cluster 준비

- `gcloud container clusters create jenkins-cd \`
`--num-nodes 2 \`
`--machine-type n1-standard-2 \`
`--scopes "https://www.googleapis.com/auth/projecthosting,cloud-platform"`
- `gcloud container clusters list`
- `gcloud container clusters get-credentials jenkins-cd`
- `kubectl cluster-info`

Helm 설치

- `wget https://storage.googleapis.com/kubernetes-helm/helm-v2.9.1-linux-amd64.tar.gz`
- `tar xfvz helm-v2.9.1-linux-amd64.tar.gz`
- `cp linux-amd64/helm .`
- `kubectl create clusterrolebinding cluster-admin-binding --clusterrole=cluster-admin --user=$(gcloud config get-value account)`
- `kubectl create serviceaccount tiller --namespace kube-system`
- `kubectl create clusterrolebinding tiller-admin-binding --clusterrole=cluster-admin --serviceaccount=kube-system:tiller`

Helm 초기화

- `./helm init --service-account=tiller`
- `./helm repo update`
- `./helm version`

Jenkins 설치

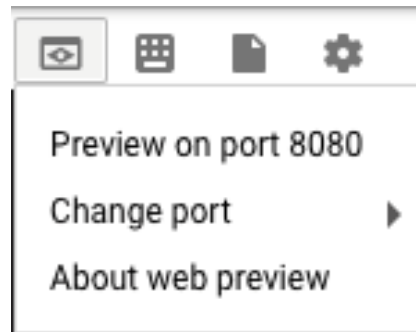
- `./helm install -n cd stable/jenkins -f jenkins/values.yaml --version 0.16.6 --wait`
- `kubectl get pods`
- `export POD_NAME=$(kubectl get pods -l "component=cd-jenkins-master" -o jsonpath="{.items[0].metadata.name}")`
- `kubectl port-forward $POD_NAME 8080:8080 >> /dev/null &`
- `kubectl get svc`








* We are using the Kubernetes Plugin so that our builder nodes will be automatically launched as necessary when the Jenkins master requests them.

<https://plugins.jenkins.io/kubernetes/>

Jenkins 연결

- Jenkins 비번 알아내기
- `printf $(kubectl get secret cd-jenkins -o jsonpath="{.data.jenkins-admin-password}" | base64 --decode);echo`
- Preview on port 8080:
(username admin)




-  새로운 Item
-  사람
-  빌드 기록
-  Jenkins 관리
-  My Views
-  Credentials
-  New View

 [상세 내용 입력](#)

Jenkins에 오신 것을 환영합니다.

시작하려면 **새 작업**를 만들어 주시기 바랍니다.

빌드 대기 목록 

빌드 대기 항목이 없습니다.

빌드 실행 상태 