Sesión 9 : kubernetes, Jenkins

devops, cursos, k8s

instalación

- desinstalar docker-ce:
  - `apt remove docker-ce && apt purge docker-ce`
  - `rm -rf /var/lib/docker /etc/docker`
- solicitar licencia EE
  - añadir la URL en apt: deb https://storebits.docker.com/ee/trial/sub-4e042314-2ac7-4c0f-9c6e-f4727ecb3b70/ubuntu xenial stable
  - descargar la key: `gpg –recv-keys BD4791B791A29FA3 gpg -a –export BD4791B791A29FA3 | sudo apt-key add -`
  - instalar: `sudo apt install docker-ee`
  - https://docs.docker.com/ee/end-to-end-install/
  - arrancar el UCP[1]:

```
docker container run --rm -it --name ucp \
  -v /var/run/docker.sock:/var/run/docker.sock \
  docker/ucp:3.1.4 install \
  --host-address 192.168.50.209 \
  --interactive --pod-cidr 10.40.0.0/16
```

- entrar en admin, **Shared Resources → Nodes → add node**
- kubectl:

```
sudo apt-get update && sudo apt-get install -y apt-transport-https
curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -
echo "deb https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee -a /etc/apt/sources.list.d/kubernetes.list
sudo apt-get update
sudo apt-get install -y kubectl
```

  - https://kubernetes.io/docs/tasks/tools/install-kubectl/#install-kubectl-binary-using-native-package-management
- helm: https://helm.sh/:

```
$ curl https://raw.githubusercontent.com/helm/helm/master/scripts/get > get_helm.sh
$ chmod 700 get_helm.sh
$ ./get_helm.sh
```

jenkins

- `docker pull jenkins/jenkins`
- `docker run -d –name jenkins -p 8080:8080 -p 50000:50000 -v /srv/jenkins:/var/jenkins_home jenkins/jenkins:latest`
- `docker run -d -u root –name jenkins -p 8080:8080 -p 50000:50000 -v /var/run/docker.sock:/var/run/docker.sock -v /srv/jenkins:/var/jenkins_home`

    `jenkins/jenkins:latest`
        - **/var/jenkins_home/secrets/initialAdminPassword**
        - `docker exec -it jenkins cat /var/jenkins_home/secrets/initialAdminPassword`
- katacoda: https://www.katacoda.com/courses/cicd/build-docker-images-using-jenkins
- modos de funcionamiento:
    - jenkins contra tcp:*host:2345 abierto de docker*
    - jenkins mapeando el sck
    - jenkins+docker

otros

- `dpkg -l <paquete>`

[1)]
Universal Control Plane

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