

Tugas 15

1. Sediakan 2 server k8s master alias di host dan worker-node1 edit di /etc/host dan pastikan node agar saling terhubung.

```
34.92.155.208 k8s-master
35.198.236.27 worker-node1
```

```
PING worker-node1 (35.198.236.27) 56(84) bytes of data.
64 bytes from worker-node1 (35.198.236.27): icmp_seq=1 ttl=58 time=75.1 ms
64 bytes from worker-node1 (35.198.236.27): icmp_seq=2 ttl=58 time=38.9 ms
64 bytes from worker-node1 (35.198.236.27): icmp_seq=3 ttl=58 time=39.4 ms
```

2. Cek apakah selinux sudah di disable pada node-master , disini harus disablekan terlebih dahulu , dan juga disablekan firewallnya

```
SELinux status:                enabled
SELinuxfs mount:               /sys/fs/selinux
SELinux root directory:        /etc/selinux
Loaded policy name:             targeted
Current mode:                   enforcing
Mode from config file:         enforcing
Policy MLS status:             enabled
Policy deny_unknown status:    allowed
Max kernel policy version:     31
```

3. Masukkan Repositori Kubernetes ke yum repos buat file baru

```
[[kubernetes]
name=Kubernetes
baseurl=https://packages.cloud.google.com/yum/repos/kubernetes-el7-x86_64
enabled=1
gpgcheck=1
repo_gpgcheck=1
gpgkey=https://packages.cloud.google.com/yum/doc/yum-key.gpg
       https://packages.cloud.google.com/yum/doc/rpm-packages-key.gpg)
```

4. Memastikan Agar swap pada sebuah pod mati
[muhammad_aulia_rahman68@instance-1 ~]\$ swapoff -a
5. Jalankan repo pada repos untuk kubetcl docker

```

* extras: centos.mirrors.estointernet.in
* updates: mirrors.cat.net
Tidak ada paket kubeadm yang tersedia.
Sedang menyelesaikan Ketergantungan
--> Menjalankan pemeriksaan transaksi
---> Paket docker.x86_64 2:1.13.1-162.git64e9980.el7.centos akan terp
--> Mem-proses ketergantungan: docker-common = 2:1.13.1-162.git64e998
--> Mem-proses ketergantungan: docker-client = 2:1.13.1-162.git64e998
--> Menjalankan pemeriksaan transaksi
---> Paket docker-client.x86_64 2:1.13.1-162.git64e9980.el7.centos ak
---> Paket docker-common.x86_64 2:1.13.1-162.git64e9980.el7.centos ak
--> Mem-proses ketergantungan: container-selinux >= 2:2.51-1 untuk pa
--> Menjalankan pemeriksaan transaksi
---> Paket container-selinux.noarch 2:2.119.2-1.911c772.el7_8 akan te
--> Resolusi ketergantungan telah diselesaikan

```

Ketergantungan-ketergantungan telah Diselesaikan

```

=====
Package                                Arst
=====
Memasang:
  docker                                x86_64
Melakukan instalasi untuk ketergantungan:
  container-selinux                    noarch
  docker-client                        x86_64
  docker-common                        x86_64

```

Ringkasan Transaksi

```

=====
Instal 1 Paket (+3 Paket-paket yang tergantung)

```

Total ukuran pengunduhan: 22 M

Ukuran terpasang: 77 M

Downloading packages:

```

(1/4): container-selinux-2.119.2-1.911c772.el7_8.noarch.rpm
(2/4): docker-common-1.13.1-162.git64e9980.el7.centos.x86_64.rpm
(3/4): docker-client-1.13.1-162.git64e9980.el7.centos.x86_64.rpm
(4/4): docker-1.13.1-162.git64e9980.el7.centos.x86_64.rpm

```

6. Karena Keterbatasan space sehingga kubernetes tidak bisa di jalankan kan

```

W0709 07:08:27.739146 13028 configset.go:202] WARNING: kubeadm cannot validate component configs for API groups [kubelet.
[init] Using Kubernetes version: v1.18.5
[preflight] Running pre-flight checks
error execution phase preflight: [preflight] Some fatal errors occurred:
  [ERROR NumCPU]: the number of available CPUs 1 is less than the required 2
[preflight] If you know what you are doing, you can make a check non-fatal with '--ignore-preflight-errors=...'
To see the stack trace of this error execute with --v=5 or higher

```

7. Memakai allow 1 cpu dengan

```

[[root@instance-1 muhammad_aulia_rahman68]# kubeadm init --ignore-preflight-errors=NumCPU

```

8. Setelah di allow lalu kubectl init

```

kubeadm join 10.170.0.2:6443 --token olrzfm.pee4b2fcoom30ak5 \
--discovery-token-ca-cert-hash sha256:e0f599194bc85150f239816e65d8465f6214d6d216542a5aeab04d343300b076

```

9. Disini membuat folder untu setying k8s dan mengcopykan conf admin serta merubah permissi menjadi id dan uid sendiri

```

error: the server doesn't have a resource type 'nodes'
[[root@instance-1 muhammad_aulia_rahman68]# mkdir -p $HOME/.kube
[[root@instance-1 muhammad_aulia_rahman68]# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
[[root@instance-1 muhammad_aulia_rahman68]# sudo chown $(id -u):$(id -g) $HOME/.kube/config

```

10. Melihat pod yang sudah terkoneksi

```

[[root@instance-1 muhammad_aulia_rahman68]# kubectl get pod --all-namespaces

```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	coredns-66bff467f8-h8m5t	0/1	Pending	0	32m
kube-system	coredns-66bff467f8-v5zcf	0/1	Pending	0	32m
kube-system	etcd-instance-1	1/1	Running	0	32m
kube-system	kube-apiserver-instance-1	1/1	Running	0	32m
kube-system	kube-controller-manager-instance-1	1/1	Running	0	32m
kube-system	kube-proxy-tq7br	1/1	Running	0	32m
kube-system	kube-scheduler-instance-1	1/1	Running	0	32m

11. Disini agar 1 master dan node ready tambahkan

```

[[root@instance-1 muhammad_aulia_rahman68]# kubectl apply -f "https://cloud.weave.works/k8s/net?k8s-version=$kubever"
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created

```

12. Cek node get pods

```

[[root@instance-1 muhammad_aulia_rahman68]# kubectl get pods

```

NAME	STATUS	ROLES	AGE	VERSION
instance-1	Ready	master	44m	v1.18.5

13. Join ke master

```

[[root@centos-tugasakhir muhammad_aulia_rahman68]# kubeadm join 10.170.0.2:6443 --token olrzfm.pee4b2fcoom30ak5 \
--discovery-token-ca-cert-hash sha256:e0f599194bc85150f239816e65d8465f6214d6d216542a5aeab04d343300b076
W0709 09:41:41.781810 28799 join.go:346] [preflight] WARNING: JoinControlPlane.controlPlane settings will be ignored when control-plane flag is not set.
[preflight] Running pre-flight checks

```

14. Dimaster sudah aja join

```

[[root@centos-tugasakhir muhammad_aulia_rahman68]# kubectl get pods

```

NAME	STATUS	ROLES	AGE	VERSION
centos-tugasakhir	Ready	<none>	10m	v1.18.5
instance-1	Ready	master	126m	v1.18.5