

1. Servicio Kubelet

```
[root@kuber-master ~]# systemctl status kubelet
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/usr/lib/systemd/system/kubelet.service; enabled; vendor preset: disabled)
  Drop-In: /usr/lib/systemd/system/kubelet.service.d
           └─10-kubeadm.conf
   Active: active (running) since Thu 2020-06-25 12:29:11 -04; 14s ago
     Docs: https://kubernetes.io/docs/
  Main PID: 18772 (kubelet)
    Tasks: 18
   Memory: 29.7M
   CGroup: /system.slice/kubelet.service
           └─18772 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kubelet.conf --kubeconfig=/etc/kubernetes/kubelet.conf --config=/var/lib/kubelet/conf

Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.167864 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...e54d0be
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.167899 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...ed006ca
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.167932 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...dd3e193
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.167963 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...dd3e193
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.167995 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...516747c
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.168029 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...flexvol
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.168069 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...516747c
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.168101 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...ed006ca
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.168132 18772 reconciler.go:224] operationExecutor.VerifyControllerAttachedVolume started for volum...dd3e193
Jun 25 12:29:13 kuber-master kubelet[18772]: I0625 12:29:13.168149 18772 reconciler.go:157] Reconciler: start to sync state
hint: Some lines were ellipsized, use -l to show in full.
```

```
[root@kuber-master ~]# systemctl status kubelet
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/usr/lib/systemd/system/kubelet.service; enabled; vendor preset: disabled)
  Drop-In: /usr/lib/systemd/system/kubelet.service.d
           └─10-kubeadm.conf
   Active: active (running) since Thu 2020-06-25 15:26:11 -04; 8min ago
     Docs: https://kubernetes.io/docs/
  Main PID: 18410 (kubelet)
    Tasks: 19
   Memory: 34.7M
   CGroup: /system.slice/kubelet.service
           └─18410 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kubelet.conf --kubeconfig=/etc/kubernetes/kubelet.conf --config=/var/lib/ku...

Jun 25 15:34:24 kuber-master kubelet[18410]: E0625 15:34:24.616488 18410 kubelet.go:2187] Container runtime network not ready: NetworkReady=false rea...itialized
Jun 25 15:34:26 kuber-master kubelet[18410]: W0625 15:34:26.627714 18410 cni.go:237] Unable to update cni config: no networks found in /etc/cni/net.d
Jun 25 15:34:29 kuber-master kubelet[18410]: E0625 15:34:29.639175 18410 kubelet.go:2187] Container runtime network not ready: NetworkReady=false rea...itialized
Jun 25 15:34:31 kuber-master kubelet[18410]: W0625 15:34:31.628039 18410 cni.go:237] Unable to update cni config: no networks found in /etc/cni/net.d
Jun 25 15:34:34 kuber-master kubelet[18410]: E0625 15:34:34.662507 18410 kubelet.go:2187] Container runtime network not ready: NetworkReady=false rea...itialized
Jun 25 15:34:36 kuber-master kubelet[18410]: E0625 15:34:36.628277 18410 cni.go:237] Unable to update cni config: no networks found in /etc/cni/net.d
Jun 25 15:34:39 kuber-master kubelet[18410]: E0625 15:34:39.685883 18410 kubelet.go:2187] Container runtime network not ready: NetworkReady=false rea...itialized
Jun 25 15:34:41 kuber-master kubelet[18410]: W0625 15:34:41.628685 18410 cni.go:237] Unable to update cni config: no networks found in /etc/cni/net.d
Jun 25 15:34:44 kuber-master kubelet[18410]: E0625 15:34:44.709704 18410 kubelet.go:2187] Container runtime network not ready: NetworkReady=false rea...itialized
Jun 25 15:34:46 kuber-master kubelet[18410]: W0625 15:34:46.628931 18410 cni.go:237] Unable to update cni config: no networks found in /etc/cni/net.d
hint: Some lines were ellipsized, use -l to show in full.
```

```
[root@kuber-master ~]# journalctl -xau kubelet
Jun 22 11:48:56 kuber-master kubelet[3156]: E0622 11:48:56.667437 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:56 kuber-master kubelet[3156]: E0622 11:48:56.767651 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:56 kuber-master kubelet[3156]: E0622 11:48:56.867910 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:56 kuber-master kubelet[3156]: E0622 11:48:56.968173 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.070418 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.170692 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.270915 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.371167 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.471505 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.571781 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.672006 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.772267 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.872540 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:57 kuber-master kubelet[3156]: E0622 11:48:57.972805 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:58 kuber-master kubelet[3156]: E0622 11:48:58.073006 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:58 kuber-master kubelet[3156]: E0622 11:48:58.173193 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:58 kuber-master kubelet[3156]: E0622 11:48:58.273435 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:58 kuber-master kubelet[3156]: E0622 11:48:58.373713 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:58 kuber-master kubelet[3156]: E0622 11:48:58.473938 3156 kubelet.go:2267] node "kuber-master" not found
Jun 22 11:48:58 kuber-master kubelet[3156]: E0622 11:48:58.574166 3156 kubelet.go:2267] node "kuber-master" not found
```

```
[root@kuber-master ~]# systemctl status kubelet
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/usr/lib/systemd/system/kubelet.service; enabled; vendor preset: disabled)
  Drop-In: /usr/lib/systemd/system/kubelet.service.d
           └─10-kubeadm.conf
   Active: activating (auto-restart) (Result: exit-code) since Thu 2020-06-25 12:24:45 -04; 3s ago
     Docs: https://kubernetes.io/docs/
  Process: 16606 ExecStart=/usr/bin/kubelet $KUBELET_KUBECONFIG_ARGS $KUBELET_CONFIG_ARGS $KUBELET_KUBEADM_ARGS $KUBELET_EXTRA_ARGS (code=exited, status=255)
 Main PID: 16606 (code=exited, status=255)

Jun 25 12:24:45 kuber-master systemd[1]: Unit kubelet.service entered failed state.
Jun 25 12:24:45 kuber-master systemd[1]: kubelet.service failed.
```

```
[root@kuber-master ~]# cat /etc/systemd/system/kubelet.service.d/10-kubeadm.conf
cat: /etc/systemd/system/kubelet.service.d/10-kubeadm.conf: No such file or directory
[root@kuber-master ~]# systemctl restart kubelet.service
[root@kuber-master ~]# systemctl status kubelet.service
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/usr/lib/systemd/system/kubelet.service; enabled; vendor preset: disabled)
  Drop-In: /usr/lib/systemd/system/kubelet.service.d
           └─10-kubeadm.conf
   Active: activating (auto-restart) (Result: exit-code) since Mon 2020-06-22 16:54:02 -04; 9s ago
     Docs: https://kubernetes.io/docs/
  Process: 20850 ExecStart=/usr/bin/kubelet $KUBELET_KUBECONFIG_ARGS $KUBELET_CONFIG_ARGS $KUBELET_KUBEADM_ARGS $KUBELET_EXTRA_ARGS (code=exited, status=255)
 Main PID: 20850 (code=exited, status=255)

Jun 22 16:54:02 kuber-master systemd[1]: Unit kubelet.service entered failed state.
Jun 22 16:54:02 kuber-master systemd[1]: kubelet.service failed.
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# cat /usr/lib/systemd/system/kubelet.service
[Unit]
Description=kubelet: The Kubernetes Node Agent
Documentation=https://kubernetes.io/docs/
Wants=network-online.target
After=network-online.target

[Service]
ExecStart=/usr/bin/kubelet
Restart=always
StartLimitInterval=0
RestartSec=10

[Install]
WantedBy=multi-user.target
[root@kuber-master ~]#
```

2. Seguridad kubernetes

```
[root@kuber-master ~]# kubeadm token list
TOKEN                                TTL      EXPIRES                                USAGES                                DESCRIPTION
-----
EXTRA GROUPS
ynn8t2.uxa965p7skrl19cb      3h              2020-06-23T17:03:03-04:00    authentication,signing    The default bootstrap token generate
system:bootstrappers:kubeadm:default-node-token
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# grep 'client-certificate-data' /etc/kubernetes/admin.conf | head -n 1 | awk '{print $2}' | base64 -d >> kubecfg
.crt
[root@kuber-master ~]# cat kubecfg.crt
-----BEGIN CERTIFICATE-----
MIIC8jCCAdggAwIBAgIIYwm2dhbi7h8wDQYJKoZIhvcNAQELBQAwFTETMBEGA1UE
AxMKa3ViZXJuZXRlczAeFw0yMDA2MjMxOTQ2NTNaFw0yMTA2MjMxOTQ2NTNaMDQx
FzAVBgNVBAAoTdnN5c3RlbTptYXN0ZjY2MRkwFwYDQ0DExBrdWJlcm5ldGVzLWwK
bWluMIIIBIjANBgkqhkiG9w0BAQEFAAOCAQ8AMIIBCgKCAQEAtSXzKtFpWOAS6Qht
AoL6u2/BYkww3HGcDgi6mCv8koIGhgKhKbIAhtW/BXmMvfyTlaDJXUueeer+C66
ac4V3FeDBBj2klttsaxYV3TscWepsfvs9XAPs0s0mu58jE6JwzCsNepFwS0UKgsV
Yo3GNIgVBRPaNtlaQrm3JNJ2bDrTpKwFpaaw77lXxqsFO4lXyEzMEZrCU7eP82YY
QWog9NHVO/jafce2FL4wN6cstYsIXZHaKz1lhbR26TROPRphMUWA9F9kg0e8JJI
Oee5J/xfMBED+YXuteubIUlJkXFRShc4byaX4bltApvjgVj6VC0Pu6Re38IY3hQj
6A2XQwIDAQABoycwJTAOBgNVHQ8BAf8EBAMCBAAwEwYDVR0lBAAwCgYIKwYBBQUH
AwIwDQYJKoZIhvcNAQELBQADggEBAAPe319tNwg+kJ8+33mLeyTJJOKb5vybd4+e
nopuw+kfpih+iYqHwGjRvRL2Gny2I3PsVqHmLKt1VuB3BUDq4IsUtDrNV7uaFlA
qgHJmDu600QggvM/dz890j04i/LP25Khfshv5bMNIsoG8M5CcUPPg8MOukGLw4aH
rdyhbzjk7VunKXhNvYoiJA7GI9IV6wArKIqPoNI9lhbSsv8g9W8SbCVOvHvkqFg
16T3pgvgtPit2Uctc3IPQkgSOkwmsbDBSgzjngKX7vegqvYd3evUaBAJavOpGzo
a9uG8gIdAKJu4Ng49JmWhvScha9Z5G3A00Cb5PCBA0RkomkQA6c=
-----END CERTIFICATE-----
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# grep 'client-key-data' /etc/kubernetes/admin.conf | head -n 1 | awk '{print $2}' | base64 -d >> kubecfg.key
[root@kuber-master ~]# cat kubecfg.key
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEAtSXzKtFpWOAS6QhtAoL6u2/BYkww3HGcDgi6mCv8koIGhgKh
KbIAhtW/BXmMvfyTlaDJXUueeer+C66ac4V3FeDBBj2klttsaxYV3TscWepsfvs9
XAPs0s0mu58jE6JwzCsNepFwS0UKgsVYo3GNIgVBRPaNtlaQrm3JNJ2bDrTpKwF
paaw77lXxqsFO4lXyEzMEZrCU7eP82YYQWog9NHVO/jafce2FL4wN6cstYsIXZHa
Kz1lhbR26TROPRphMUWA9F9kg0e8JJIjOee5J/xfMBED+YXuteubIUlJkXFRShc4
byaX4bltApvjgVj6VC0Pu6Re38IY3hQj6A2XQwIDAQABAAIBAAQCP9lIzXGx6MtM0
l4A8f8Yvccxj5OPv5Jt2ElDfEIQ9BjMRMcEiPb6VVg8i13D1Lt6cyDc263Y+LWODm
hSohB4BmRdKCWDLXn1+hF0Wockutdxb9ELMR7seKEA2e+xqhcFXG4A7FeXqo43
rIYOYWiV1WmxG18AKvsKLRjsLcvqJNkDDU9The62zv3o5ItVozh7dOWjWjAudMnE
tW6W7/1y7hd9c6vgS+gp8tU9NTGJlruflfv3Sfzsc392Cl3Xe6x7+x8Lo+FMK97J
/5lbgdFwBTrPru76wIvsIetoDm5Jc4zYQasPfbsbGH+RngcHs31E3XU+Yn1TnLUST
V7daa+nJaoCBANKlGzQWlebi9op/E+1EjvgChxoiTQ5Ns1gje0pPq0f2OhAU9fEb
Czv22UTVJ+wwwDIHVzCL4BV6nPBcRrhBPgHJOOip0e11VtM8X3z5HqXm66b9d2ewu
AtU+Ab2LfrB1khamAs7y3Ifa+LFN0xtc5B3FDhU4+qtFnY9GhYEE6bwPaOGBANWP
647p2JlyQkdqA0/ZktILORx/INxUIp8x+KiUDp3vkePbDLPKRNzkmQYcc3lMvkrD
rULRcbB78HAioowx9QbrF8zfd6FixblaGz0stP80T2ZRM3cjdZRT+ytCuIlr5ko+
93IVUK2AkkYNt46bljaftjGzf+NpVTxqlVDRHauNAoGAJN2krQt/1rF+PbSdPs04
q95R6R8Uj26jFDRaubsWTBj7dKr5pjN+TmMATuqgYS1Mv2f72KL2Gu64HRJSOTV5
4jpfJ7o0t3rIt7FHEBu1XEUMtoibt9t+Y4qnY7OfBHSNMoh4ilWNDuzN79ZJ62Rw
lpQNDYumcNgwVnbsQzcAKAUCgYAXGfHy3b5/eUG74af5R/D10hiaULBheAaty3N8
bu4daeOFFgmce0vPG/ic9Ao53gpbKjH3dZ2IqXZSi+zmzhjoCk1ikU6UEH2eV4VD
v2+t7Yya6ctwzPpPsim5gov8F/7NPK7vz+7ItXLSIGM/qpzJ2latfr08uY8bYQTC
ogwkUQRBg2Q0+noilEoPR398ZH1d8KFF+thd+ZGhksJHUnHB9uZukF+TJeAP5GW
lCfmOpElpfp1lBrtL31V6HiUYf+v1+lC3m6zQV7/WMK4esuf5mgf8RRJPWys0sMh
mLBW0U8Fq0VtTp+chV2dtdkdj8E+dnDXKgq8XCX+TiMwEqCg2ut0
-----END RSA PRIVATE KEY-----
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# openssl pkcs12 -export -clcerts -inkey kubecfg.key -in kubecfg.crt -out kubecfg.p12 -name "kubernetes-client"
Enter Export Password:
Verifying - Enter Export Password:
[root@kuber-master ~]#
```

```

root@kuber-master ~# kubectl -n kube-system get secret

```

NAME	TYPE	DATA	AGE
attachdetach-controller-token-45rlg	kubernetes.io/service-account-token	3	13m
bootstrap-signer-token-4sl8v	kubernetes.io/service-account-token	3	13m
bootstrap-token-0lps3t	bootstrap.kubernetes.io/token	7	13m
certificate-controller-token-5j8k5	kubernetes.io/service-account-token	3	13m
clusterrole-aggregation-controller-token-rf6fl	kubernetes.io/service-account-token	3	13m
coredns-token-dhjz4	kubernetes.io/service-account-token	3	13m
cronjob-controller-token-ml5x9	kubernetes.io/service-account-token	3	13m
daemon-set-controller-token-sx4lm	kubernetes.io/service-account-token	3	13m
default-token-jfl4w	kubernetes.io/service-account-token	3	13m
deployment-controller-token-rcf5c	kubernetes.io/service-account-token	3	13m
disruption-controller-token-gkjrk	kubernetes.io/service-account-token	3	13m
endpoint-controller-token-xslf6	kubernetes.io/service-account-token	3	13m
endpointslice-controller-token-6vnht	kubernetes.io/service-account-token	3	13m
expand-controller-token-f6577	kubernetes.io/service-account-token	3	13m
generic-garbage-collector-token-xwxgv	kubernetes.io/service-account-token	3	13m
horizontal-pod-autoscaler-token-7xd5z	kubernetes.io/service-account-token	3	13m
job-controller-token-4vxs2	kubernetes.io/service-account-token	3	13m
kube-proxy-token-wtxmx	kubernetes.io/service-account-token	3	13m
namespace-controller-token-z5brx	kubernetes.io/service-account-token	3	13m
node-controller-token-rqcqf	kubernetes.io/service-account-token	3	13m
persistent-volume-binder-token-g4nsp	kubernetes.io/service-account-token	3	13m
pod-garbage-collector-token-cpm9t	kubernetes.io/service-account-token	3	13m
pv-protection-controller-token-w5r8s	kubernetes.io/service-account-token	3	13m
pvc-protection-controller-token-29qc9	kubernetes.io/service-account-token	3	13m
replicaset-controller-token-gcz7t	kubernetes.io/service-account-token	3	13m
replication-controller-token-rf7fw	kubernetes.io/service-account-token	3	13m
resourcequota-controller-token-l2l47	kubernetes.io/service-account-token	3	13m
service-account-controller-token-26xrh	kubernetes.io/service-account-token	3	13m
service-controller-token-t7w9g	kubernetes.io/service-account-token	3	13m
statefulset-controller-token-rqjvk	kubernetes.io/service-account-token	3	13m
token-cleaner-token-9gpsq	kubernetes.io/service-account-token	3	13m
ttl-controller-token-r5wc	kubernetes.io/service-account-token	3	13m

```
kubectl -n kubernetes-dashboard describe secret $(kubectl -n kubernetes-dashboard get secret | grep admin-user | awk '{print $1}')
```

3. Gestion de Cluster y errores

```
[root@kuber-master ~]# kubeadm init --pod-network-cidr=164.96.96.0/24 --v=5
I0622 12:18:08.435907 14792 initconfiguration.go:103] detected and using CRI socket: /var/run/dockershim.sock
I0622 12:18:08.436583 14792 interface.go:400] Looking for default routes with IPv4 addresses
I0622 12:18:08.436609 14792 interface.go:405] Default route transits interface "ens160"
I0622 12:18:08.437022 14792 interface.go:208] Interface ens160 is up
I0622 12:18:08.437214 14792 interface.go:256] Interface "ens160" has 2 addresses : [164.96.96.87/24 fe80::21:8d22:b6a9:8aae/64].
I0622 12:18:08.437270 14792 interface.go:223] Checking addr 164.96.96.87/24.
I0622 12:18:08.437292 14792 interface.go:230] IP found 164.96.96.87
I0622 12:18:08.437348 14792 interface.go:262] Found valid IPv4 address 164.96.96.87 for interface "ens160".
I0622 12:18:08.437368 14792 interface.go:411] Found active IP 164.96.96.87
I0622 12:18:08.437519 14792 version.go:183] fetching Kubernetes version from URL: https://dl.k8s.io/release/stable-1.txt
W0622 12:18:08.912402 14792 configset.go:202] WARNING: kubeadm cannot validate component configs for API groups [kubelet.config.k8s.io kubeproxy.config.k8s.io]
[init] Using Kubernetes version: v1.18.4
[preflight] Running pre-flight checks
I0622 12:18:08.913144 14792 checks.go:577] validating Kubernetes and kubeadm version
I0622 12:18:08.913214 14792 checks.go:166] validating if the firewall is enabled and active
I0622 12:18:08.932131 14792 checks.go:201] validating availability of port 6443
I0622 12:18:08.932548 14792 checks.go:201] validating availability of port 10259
I0622 12:18:08.932639 14792 checks.go:201] validating availability of port 10257
I0622 12:18:08.932740 14792 checks.go:286] validating the existence of file /etc/kubernetes/manifests/kube-apiserver.yaml
I0622 12:18:08.932800 14792 checks.go:286] validating the existence of file /etc/kubernetes/manifests/kube-controller-manager.yaml
I0622 12:18:08.932836 14792 checks.go:286] validating the existence of file /etc/kubernetes/manifests/kube-scheduler.yaml
I0622 12:18:08.932884 14792 checks.go:286] validating the existence of file /etc/kubernetes/manifests/etcd.yaml
I0622 12:18:08.932943 14792 checks.go:432] validating if the connectivity type is via proxy or direct
[W0622 12:18:08.933168] [WARNING HTTPProxy]: Connection to "https://164.96.96.87" uses proxy "http://164.96.27.12:8080". If that is not intended, adjust your proxy settings
I0622 12:18:08.933168 14792 checks.go:471] validating http connectivity to first IP address in the CIDR
[W0622 12:18:08.933255] [WARNING HTTPProxyCIDER]: connection to "10.96.0.0/12" uses proxy "http://164.96.27.12:8080". This may lead to malfunctional cluster setup. Make sure that Pod and Services IP ranges specified correctly as exceptions in proxy configuration
I0622 12:18:08.933255 14792 checks.go:471] validating http connectivity to first IP address in the CIDR
[W0622 12:18:08.933255] [WARNING HTTPProxyCIDER]: connection to "164.96.96.0/24" uses proxy "http://164.96.27.12:8080". This may lead to malfunctional cluster setup. Make sure that Pod and Services IP ranges specified correctly as exceptions in proxy configuration
```

```
[root@kuber-master ~]# kubeadm config view
Get https://164.96.96.87:6443/api/v1/namespaces/kube-system/configmaps/kubeadm-config?timeout=10s: proxyconnect tcp: tls: first record does not look like a TLS handshake
To see the stack trace of this error execute with --v=5 or higher
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# export no_proxy=164.96.96.87
>
[root@kuber-master ~]# export no_proxy="164.96.96.87"
[root@kuber-master ~]# kubectl get nodes
The connection to the server 164.96.96.87:8080 was refused - did you specify the right host or port?
[root@kuber-master ~]# export KUBECONFIG=/etc/kubernetes/admin.conf
[root@kuber-master ~]# kubectl get nodes
NAME          STATUS    ROLES    AGE   VERSION
kuber-master  Ready     master   19h   v1.18.4
kuber-nodo1   NotReady  <none>    19h   v1.18.4
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# export no_proxy="164.96.96.87"
[root@kuber-master ~]# export KUBECONFIG=/etc/kubernetes/admin.conf
[root@kuber-master ~]# kubectl get nodes
NAME          STATUS    ROLES    AGE   VERSION
kuber-master  Ready     master   19h   v1.18.4
kuber-nodo1   NotReady  <none>    19h   v1.18.4
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# export KUBERNETES_MASTER=http://164.96.96.87:8080
[root@kuber-master ~]# env | grep KUBERNETES_MASTER=http://164.96.96.87:8080
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# kubectl cluster-info
Kubernetes master is running at https://164.96.96.87:6443
KubeDNS is running at https://164.96.96.87:6443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
[root@kuber-master ~]# kubectl get nodes
NAME          STATUS    ROLES    AGE   VERSION
kuber-master  Ready    master   177m  v1.18.4
[root@kuber-master ~]# kubectl get pods
No resources found in default namespace.
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# kubectl -n kube-system -l=k8s-app=kube-dns get pods
NAME                                READY   STATUS    RESTARTS   AGE
coredns-66bff467f8-ddpgc           0/1     ContainerCreating   0          20h
coredns-66bff467f8-gq8tr           0/1     ContainerCreating   0          20h
[root@kuber-master ~]#
```

```
to see the stack trace of this error execute with --v=3 or higher
[root@kuber-master ~]# kubeadm reset
[reset] Reading configuration from the cluster...
[reset] FYI: You can look at this config file with 'kubectl -n kube-system get cm kubeadm-config -oyaml'
W0622 11:39:29.597188 25052 reset.go:99] [reset] Unable to fetch the kubeadm-config ConfigMap from cluster: failed to get
: Get https://164.96.96.87:6443/api/v1/namespaces/kube-system/configmap/kubeadm-config?timeout=10s: proxyconnect tcp: tls:
rd does not look like a TLS handshake
[reset] WARNING: Changes made to this host by 'kubeadm init' or 'kubeadm join' will be reverted.
[reset] Are you sure you want to proceed? [y/N]: y
[preflight] Running pre-flight checks
W0622 11:39:32.356484 25052 removeetcdmember.go:79] [reset] No kubeadm config, using etcd pod spec to get data directory
[reset] Stopping the kubelet service
[reset] Unmounting mounted directories in "/var/lib/kubelet"
[reset] Deleting contents of config directories: [/etc/kubernetes/manifests /etc/kubernetes/pki]
[reset] Deleting files: [/etc/kubernetes/admin.conf /etc/kubernetes/kubelet.conf /etc/kubernetes/bootstrap-kubelet.conf /etc
s/controller-manager.conf /etc/kubernetes/scheduler.conf]
[reset] Deleting contents of stateful directories: [/var/lib/etcd /var/lib/kubelet /var/lib/docker/shim /var/run/kubernetes /
i]

The reset process does not clean CNI configuration. To do so, you must remove /etc/cni/net.d

The reset process does not reset or clean up iptables rules or IPVS tables.
If you wish to reset iptables, you must do so manually by using the "iptables" command.

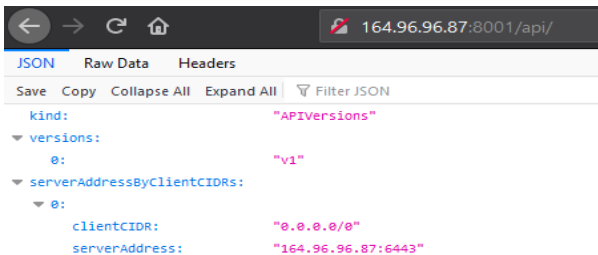
If your cluster was setup to utilize IPVS, run ipvsadm --clear (or similar)
to reset your system's IPVS tables.

The reset process does not clean your kubeconfig files and you must remove them manually.
Please, check the contents of the $HOME/.kube/config file.
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# rm -rf .kube/
[root@kuber-master ~]# rm -rf /etc/kubernetes/
[root@kuber-master ~]# rm -rf /var/lib/kubelet/
[root@kuber-master ~]# rm -rf /var/lib/etcd
[root@kuber-master ~]#
```

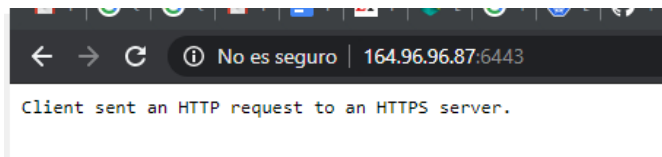
3.1. Verificación de Cluster - Dashboard

```
kubectl proxy --address 0.0.0.0 --accept-hosts '.*'
```



```
{
  "kind": "APIVersions",
  "versions": [
    "v1"
  ],
  "serverAddressByClientCIDRs": [
    {
      "clientCIDR": "0.0.0.0/0",
      "serverAddress": "164.96.96.87:6443"
    }
  ]
}
```

```
{
  "kind": "Status",
  "apiVersion": "v1",
  "metadata": {},
  "status": "Failure",
  "message": "no endpoints available for service \"kubernetes-dashboard\"",
  "reason": "Serviceunavailable",
  "code": 503
}
```



```
[root@kuber-nodol ~]# curl http://164.96.96.87:8001/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/
{
  "kind": "Status",
  "apiVersion": "v1",
  "metadata": {
  },
  "status": "Failure",
  "message": "services \"kubernetes-dashboard\" not found",
  "reason": "NotFound",
  "details": {
    "name": "kubernetes-dashboard",
    "kind": "services"
  },
  "code": 404
}
[root@kuber-nodol ~]#
```

https://github.com/kubernetes/dashboard/blob/master/aio/deploy/recommended/00_dashboard-namespace.yaml

<http://164.96.96.87:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/>

<http://164.96.96.97:8001/api/v1/namespaces/kube-system/services/https:kubernetes-dashboard:/proxy/>

<https://164.96.96.97:6443/apis/coordination.k8s.io/v1/namespaces/kube-node-lease/leases/kuber-master?timeout=10s>

```
{
  "kind": "Status",
  "apiVersion": "v1",
  "metadata": {
  },
  "status": "Failure",
  "message": "no endpoints available for service \"kubernetes-dashboard\"",
  "reason": "ServiceUnavailable",
  "code": 503
}
```

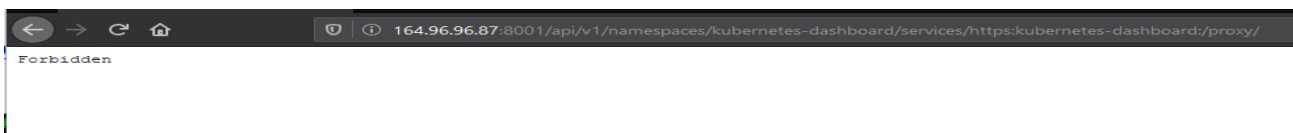
```
[root@kuber-master ~]# kubectl proxy --address='164.96.96.87' --accept-hosts='^164\.96\.98\.1$'
```

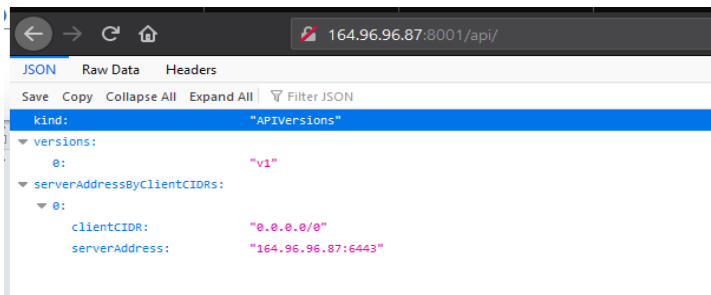
`kubectl proxy --address='164.96.96.87' --accept-hosts='^localhost$,^127\.0\.0\.1$,^::1$,^164\.96\.96\.1$,^164\.96\.98\.1$'`

Starting to serve on 164.96.96.87:8001

```
error: listen tcp 164.96.96.87:8001: bind: address already in use
[root@kuber-master ~]# kubectl proxy --address='164.96.96.87' --port=8002 --accept-hosts='^localhost$,^127\.0\.0\.1$,^::1$,^164\.96\.96\.1$,^164\.96\.98\.1$'
Starting to serve on 164.96.96.87:8002
```

`--accept-hosts='^localhost$,^127\.0\.0\.1$,^::1$': Regular expression for hosts that the proxy should accept. accept rather than the Regular expression for hosts that the proxy should accept.`





3.2. Errores de Cluster

```
[root@kuber-nodo2 ~]# kubeadm join 164.96.96.87:6443 --token ynn8t2.uxa965p7skrl19cb --discovery-token-ca-cert-hash sha256:8057e1db21296a2c402d763bac8a26dc89fc2bdc053861049d7e762ccadfc2dd
W0622 17:54:54.981874 60045 join.go:346] [preflight] WARNING: JoinControlPane.controlPlane settings will be ignored when control-plane flag is not set.
[preflight] Running pre-flight checks
[WARNING Service-Docker]: docker service is not enabled, please run 'systemctl enable docker.service'
[WARNING IsDockerSystemdCheck]: detected "cgroupfs" as the Docker cgroup driver. The recommended driver is "systemd". Please follow the guide at https://kubernetes.io/docs/setup/cri/
[WARNING Service-Kubelet]: kubelet service is not enabled, please run 'systemctl enable kubelet.service'
[WARNING HTTPProxy]: Connection to "https://164.96.96.87" uses proxy "http://164.96.27.12:8080". If that is not intended, adjust your proxy settings

^[[A^C
[root@kuber-nodo2 ~]# systemctl enable kubelet.service
Created symlink from /etc/systemd/system/multi-user.target.wants/kubelet.service to /usr/lib/systemd/system/kubelet.service.
[root@kuber-nodo2 ~]# 'systemctl enable docker.service'
>
^C
[root@kuber-nodo2 ~]# systemctl enable docker.service
Created symlink from /etc/systemd/system/multi-user.target.wants/docker.service to /usr/lib/systemd/system/docker.service.
[root@kuber-nodo2 ~]# systemctl start kubelet.service
[root@kuber-nodo2 ~]# systemctl start docker.service
[root@kuber-nodo2 ~]#
```

4. Kubectl - Servicios y Pods

```

2020-06-23 17:22:57.641160 I | mvcc: finished scheduled compaction at 168092 (took 4.004009ms)
[root@kuber-master ~]#
[root@kuber-master ~]# kubectl get pods --all-namespaces
NAMESPACE      NAME                                     READY   STATUS             RESTARTS   AGE
kube-system     coredns-66bff467f8-ddpgc              0/1     ContainerCreating   0           20h
kube-system     coredns-66bff467f8-gg8tr              0/1     ContainerCreating   0           20h
kube-system     etcd-kuber-master                     1/1     Running             0           20h
kube-system     kube-apiserver-kuber-master            1/1     Running             0           20h
kube-system     kube-controller-manager-kuber-master   1/1     Running             0           20h
kube-system     kube-proxy-l6gjjv                     1/1     Running             0           20h
kube-system     kube-proxy-mgg14                      0/1     ContainerCreating   0           20h
kube-system     kube-scheduler-kuber-master            1/1     Running             0           20h
kubernetes-dashboard dashboard-metrics-scraper-6b4884c9d5-fvqqw 0/1     ContainerCreating   0           89m
kubernetes-dashboard kubernetes-dashboard-7b544877d5-v726w 0/1     ContainerCreating   0           89m
[root@kuber-master ~]# kubectl logs kubernetes-dashboard-7b544877d5-v726w -n kube-system | more
Error from server (NotFound): pods "kubernetes-dashboard-7b544877d5-v726w" not found
[root@kuber-master ~]# kubectl logs etcd-kuber-master -n kube-system | more
[WARNING] Deprecated '--logger=capnslog' flag is set; use '--logger=zap' flag instead
2020-06-22 21:02:54.556434 I | etcdmain: etcd Version: 3.4.3
2020-06-22 21:02:54.556545 I | etcdmain: Git SHA: 3cf2f69b5
2020-06-22 21:02:54.556557 I | etcdmain: Go Version: go1.12.12
2020-06-22 21:02:54.556568 I | etcdmain: Go OS/Arch: linux/amd64
2020-06-22 21:02:54.556580 I | etcdmain: setting maximum number of CPUs to 4, total number of available CPUs is 4
[WARNING] Deprecated '--logger=capnslog' flag is set; use '--logger=zap' flag instead
2020-06-22 21:02:54.556805 I | embed: peerTLS: cert = /etc/kubernetes/pki/etcd/peer.crt, key = /etc/kubernetes/pki/etcd/
/kubernetes/pki/etcd/ca.crt, client-cert-auth = true, crl-file =
2020-06-22 21:02:54.559087 I | embed: name = kuber-master
2020-06-22 21:02:54.559132 I | embed: data dir = /var/lib/etcd
2020-06-22 21:02:54.559146 I | embed: member dir = /var/lib/etcd/member
2020-06-22 21:02:54.559157 I | embed: heartbeat = 100ms
2020-06-22 21:02:54.559170 I | embed: election = 1000ms
2020-06-22 21:02:54.559180 I | embed: snapshot count = 10000
2020-06-22 21:02:54.559207 I | embed: advertise client URLs = https://164.96.96.87:2379
2020-06-22 21:02:54.573780 I | etcdserver: starting member 3c487a8b0baf1011 in cluster e0f84e45bb83fa54

```

4.1. Edición de servicio

```

[root@kuber-master ~]# kubectl -n kube-system edit service kubernetes-dashboard
service/kubernetes-dashboard edited
[root@kuber-master ~]#

```

```

resourceVersion: "7636"
selfLink: /api/v1/namespaces/kube-system/services/kubernetes-dashboard
uid: db2cd371-3409-42e4-b6f9-1d8fc5cf911a
spec:
  clusterIP: 10.111.192.89
  externalTrafficPolicy: Cluster
  ports:
  - nodePort: 31038
    port: 443
    protocol: TCP
    targetPort: 8443
  selector:
    k8s-app: kubernetes-dashboard
  sessionAffinity: None
  type: NodePort
status:
  loadBalancer: {}

```



```
[root@kuber-master ~]# kubectl get svc --all-namespaces
```

NAMESPACE	NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
default	kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	108m
kube-system	kube-dns	ClusterIP	10.96.0.10	<none>	53/UDP,53/TCP,9153/TCP	108m
kubernetes-dashboard	dashboard-metrics-scraper	ClusterIP	10.109.93.229	<none>	8000/TCP	19m
kubernetes-dashboard	kubernetes-dashboard	ClusterIP	10.99.240.241	<none>	443/TCP	19m

```
[root@kuber-master ~]# kubectl get pods --all-namespaces
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	coredns-66bff467f8-2g5r9	0/1	Completed	0	107m
kube-system	coredns-66bff467f8-9mhpw	0/1	Completed	0	107m
kube-system	etcd-kuber-master	1/1	Running	1	108m
kube-system	kube-apiserver-kuber-master	1/1	Running	1	108m
kube-system	kube-controller-manager-kuber-master	1/1	Running	1	108m
kube-system	kube-proxy-c5d6w	1/1	Running	1	107m
kube-system	kube-scheduler-kuber-master	1/1	Running	1	108m
kubernetes-dashboard	dashboard-metrics-scraper-6b4884c9d5-tfbxf	0/1	ContainerCreating	0	19m
kubernetes-dashboard	kubernetes-dashboard-7f99b75bf4-r9kqg	0/1	ContainerCreating	0	19m

```
[root@kuber-master ~]# kubectl delete deployment kubernetes-dashboard --namespace=kubernetes-dashboard
```

```
deployment.apps "kubernetes-dashboard" deleted
```

```
[root@kuber-master ~]# kubectl delete deployment dashboard-metrics-scraper --namespace=kubernetes-dashboard
```

```
deployment.apps "dashboard-metrics-scraper" deleted
```

```
[root@kuber-master ~]# kubectl get pods --all-namespaces
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	coredns-66bff467f8-2g5r9	0/1	Completed	0	109m
kube-system	coredns-66bff467f8-9mhpw	0/1	Completed	0	109m
kube-system	etcd-kuber-master	1/1	Running	1	109m
kube-system	kube-apiserver-kuber-master	1/1	Running	1	109m
kube-system	kube-controller-manager-kuber-master	1/1	Running	1	109m
kube-system	kube-proxy-c5d6w	1/1	Running	1	109m
kube-system	kube-scheduler-kuber-master	1/1	Running	1	109m
kubernetes-dashboard	dashboard-metrics-scraper-6b4884c9d5-tfbxf	0/1	Terminating	0	20m

```
[root@kuber-master ~]# kubectl get pods --all-namespaces
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	coredns-66bff467f8-2g5r9	0/1	Completed	0	109m
kube-system	coredns-66bff467f8-9mhpw	0/1	Completed	0	109m
kube-system	etcd-kuber-master	1/1	Running	1	109m
kube-system	kube-apiserver-kuber-master	1/1	Running	1	109m
kube-system	kube-controller-manager-kuber-master	1/1	Running	1	109m
kube-system	kube-proxy-c5d6w	1/1	Running	1	109m
kube-system	kube-scheduler-kuber-master	1/1	Running	1	109m

```
[root@kuber-master ~]# kubectl get pods --all-namespaces
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	coredns-66bff467f8-2g5r9	0/1	Completed	0	107m
kube-system	coredns-66bff467f8-9mhpw	0/1	Completed	0	107m
kube-system	etcd-kuber-master	1/1	Running	1	108m
kube-system	kube-apiserver-kuber-master	1/1	Running	1	108m
kube-system	kube-controller-manager-kuber-master	1/1	Running	1	108m
kube-system	kube-proxy-c5d6w	1/1	Running	1	107m
kube-system	kube-scheduler-kuber-master	1/1	Running	1	108m
kubernetes-dashboard	dashboard-metrics-scraper-6b4884c9d5-tfbxf	0/1	ContainerCreating	0	19m
kubernetes-dashboard	kubernetes-dashboard-7f99b75bf4-r9kqg	0/1	ContainerCreating	0	19m

```
[root@kuber-master ~]# kubectl delete deployment kubernetes-dashboard --namespace=kubernetes-dashboard
```

```
deployment.apps "kubernetes-dashboard" deleted
```

```
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# kubectl get pods --all-namespaces
```

NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	coredns-66bff467f8-2g5r9	0/1	Completed	0	23m
kube-system	coredns-66bff467f8-9mhpw	0/1	Completed	0	23m
kube-system	etcd-kuber-master	1/1	Running	1	24m
kube-system	kube-apiserver-kuber-master	1/1	Running	1	24m
kube-system	kube-controller-manager-kuber-master	1/1	Running	1	24m
kube-system	kube-proxy-c5d6w	1/1	Running	1	23m
kube-system	kube-scheduler-kuber-master	1/1	Running	1	24m

```
[root@kuber-master ~]# kubectl get services --all-namespaces
```

NAMESPACE	NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
default	kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	24m
kube-system	kube-dns	ClusterIP	10.96.0.10	<none>	53/UDP,53/TCP,9153/TCP	24m

```
[root@kuber-master ~]#
```

5. Nodeport con Kubectl

```
[root@kuber-master ~]# kubectl get service --all-namespaces
NAMESPACE   NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
default     kubernetes    ClusterIP      10.96.0.1      <none>         443/TCP          178m
kube-system  kube-dns       ClusterIP      10.96.0.10     <none>         53/UDP,53/TCP,9153/TCP 178m
kubernetes-dashboard dashboard-metrics-scraper ClusterIP 10.103.62.214 <none> 8000/TCP 154m
kubernetes-dashboard kubernetes-dashboard NodePort 10.103.100.159 <none> 443:30896/TCP 154m
[root@kuber-master ~]# netstat -natp| grep 30896
tcp        0      0 0.0.0.0:30896      0.0.0.0:*        LISTEN      4495/kube-proxy
[root@kuber-master ~]# kubectl get service -n kubernetes-dashboard
NAME                                TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
dashboard-metrics-scraper           ClusterIP      10.103.62.214 <none>         8000/TCP         157m
kubernetes-dashboard                 NodePort       10.103.100.159 <none>         443:30896/TCP    157m
[root@kuber-master ~]# kubectl get pods -n kubernetes-dashboard
NAME                                READY   STATUS    RESTARTS   AGE
dashboard-metrics-scraper-6b4884c9d5-nmz9 1/1     Running   2          158m
kubernetes-dashboard-7f99b75bf4-7tqjj      1/1     Running   2          158m
[root@kuber-master ~]#
```

```
edit cancelled, no changes made.
[root@kuber-master ~]# kubectl -n kube-system get services
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kube-dns       ClusterIP      10.96.0.10     <none>         53/UDP,53/TCP,9153/TCP 54m
kubernetes-dashboard NodePort       10.111.192.89 <none>         443:31038/TCP    30m
[root@kuber-master ~]#
```

```
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kube-dns       ClusterIP      10.96.0.10     <none>         53/UDP,53/TCP,9153/TCP 61m
kubernetes-dashboard NodePort       10.111.192.89 <none>         443:31038/TCP    37m
[root@kuber-master ~]#
```

← → ↺ 🏠 🔒 164.96.96.87:30896

Client sent an HTTP request to an HTTPS server.

```
[root@kuber-master ~]# kubectl get service --all-namespaces
NAMESPACE   NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
default     kubernetes    ClusterIP      10.96.0.1      <none>         443/TCP          178m
kube-system  kube-dns       ClusterIP      10.96.0.10     <none>         53/UDP,53/TCP,9153/TCP 178m
kubernetes-dashboard dashboard-metrics-scraper ClusterIP 10.103.62.214 <none> 8000/TCP 154m
kubernetes-dashboard kubernetes-dashboard NodePort 10.103.100.159 <none> 443:30896/TCP 154m
[root@kuber-master ~]# netstat -natp| grep 30896
tcp        0      0 0.0.0.0:30896      0.0.0.0:*        LISTEN      4495/kube-proxy
```

```
[root@kuber-master ~]# kubectl -n kube-system get services
NAME          TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
kube-dns       ClusterIP      10.96.0.10     <none>         53/UDP,53/TCP,9153/TCP 54m
kubernetes-dashboard NodePort       10.111.192.89 <none>         443:31038/TCP    30m
[root@kuber-master ~]# lsof -i tcp:31038
COMMAND    PID USER   FD   TYPE    DEVICE SIZE/OFF NODE NAME
kube-prox 30761 root   11u  IPv4  61349156 0t0  TCP *:31038 (LISTEN)
[root@kuber-master ~]#
```

```
[root@kuber-nodo2 ~]# nmap 164.96.96.87

Starting Nmap 6.40 ( http://nmap.org ) at 2020-06-23 16:49 -04
Nmap scan report for kuber-master (164.96.96.87)
Host is up (0.00018s latency).
Not shown: 995 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
111/tcp   open  rpcbind
3011/tcp  open  trusted-web
8001/tcp  open  vcom-tunnel
31038/tcp filtered unknown
MAC Address: 00:50:56:9B:20:3F (VMware)

Nmap done: 1 IP address (1 host up) scanned in 1.70 seconds
[root@kuber-nodo2 ~]#
```

6. Servicio Docker

```

[root@kuber-master ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
   Drop-In: /etc/systemd/system/docker.service.d
           └─http-proxy.conf
   Active: active (running) since Thu 2020-06-25 12:39:45 -04; 11min ago
     Docs: https://docs.docker.com
    Main PID: 1178 (dockerd)
      Tasks: 22
     Memory: 156.6M
    CGroup: /system.slice/docker.service
            └─1178 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Jun 25 12:51:06 kuber-master dockerd[1178]: time="2020-06-25T12:51:06.112741979-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:07 kuber-master dockerd[1178]: time="2020-06-25T12:51:07.318664859-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:07 kuber-master dockerd[1178]: time="2020-06-25T12:51:07.400680353-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:08 kuber-master dockerd[1178]: time="2020-06-25T12:51:08.640474233-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:08 kuber-master dockerd[1178]: time="2020-06-25T12:51:08.715655811-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:09 kuber-master dockerd[1178]: time="2020-06-25T12:51:09.865125428-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:09 kuber-master dockerd[1178]: time="2020-06-25T12:51:09.951689337-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:11 kuber-master dockerd[1178]: time="2020-06-25T12:51:11.186784482-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:11 kuber-master dockerd[1178]: time="2020-06-25T12:51:11.317332076-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Jun 25 12:51:12 kuber-master dockerd[1178]: time="2020-06-25T12:51:12.510042832-04:00" level=info msg="ignoring event" module=libcontainerd namespace=moby topic...askDe
Hint: Some lines were ellipsized, use -l to show in full.
[root@kuber-master ~]#

```

```

[root@kuber-master ~]# docker info
Client:
 Debug Mode: false

Server:
 Containers: 72
  Running: 11
  Paused: 0
  Stopped: 61
 Images: 7
 Server Version: 19.03.11
 Storage Driver: overlay2
  Backing Filesystem: xfs
  Supports d_type: true
  Native Overlay Diff: true
 Logging Driver: json-file
 Cgroup Driver: systemd
 Plugins:
  Volume: local
  Network: bridge host ipvlan macvlan null overlay
  Log: awslogs fluentd gcplogs gelf journald json-file local logentries splunk syslog
 Swarm: inactive
 Runtimes: runc
 Default Runtime: runc
 Init Binary: docker-init
 containerd version: 7ad184331fa3e55e52b890ea95e65ba581ae3429
 runc version: dc9208a3303feef5b3839f4323d9beb36df0a9dd
 init version: fec3683
 Security Options:
  seccomp
   Profile: default
 Kernel Version: 3.10.0-1127.10.1.el7.x86_64
 Operating System: CentOS Linux 7 (Core)
 OSType: linux
 Architecture: x86_64
 CPUs: 4
 Total Memory: 15.51GiB
 Name: kuber-master

```

```

Init Binary: docker-init
containerd version: 7ad184331fa3e55e52b890ea95e65ba581ae3429
runc version: dc9208a3303feef5b3839f4323d9beb36df0a9dd
init version: fec3683
Security Options:
 seccomp
  Profile: default
 Kernel Version: 3.10.0-1127.10.1.el7.x86_64
 Operating System: CentOS Linux 7 (Core)
 OSType: linux
 Architecture: x86_64
 CPUs: 4
 Total Memory: 15.51GiB
 Name: kuber-master
 ID: XK7D:2NWC:6HI5:F6FP:UQZR:AFNG:D774:L5IF:YSUA:XRDI:TOZL:YZOG
 Docker Root Dir: /var/lib/docker
 Debug Mode: false
 HTTP Proxy: http://164.96.27.12:8080/
 HTTPS Proxy: http://164.96.27.12:8080/
 Registry: https://index.docker.io/v1/
 Labels:
 Experimental: false
 Insecure Registries:
  127.0.0.0/8
 Live Restore Enabled: false

```

7. Containers Docker

```
[root@kuber-master ~]# kubectl get pods -n kubernetes-dashboard
NAME                                READY   STATUS    RESTARTS   AGE
dashboard-metrics-scraper-6b4884c9d5-nmnz9   1/1     Running   0           88m
kubernetes-dashboard-7f99b75bf4-7tqjj        1/1     Running   0           88m
[root@kuber-master ~]# kubectl get service -n kubernetes-dashboard
NAME                                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
dashboard-metrics-scraper          ClusterIP       10.103.62.214   <none>           8000/TCP         88m
kubernetes-dashboard               ClusterIP       10.103.100.159  <none>           443/TCP          88m
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# kubectl get services --all-namespaces
NAMESPACE   NAME                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
default     kubernetes          ClusterIP       10.96.0.1        <none>           443/TCP          24m
kube-system kube-dns            ClusterIP       10.96.0.10       <none>           53/UDP,53/TCP,9153/TCP 24m
kubernetes-dashboard dashboard-metrics-scraper ClusterIP       10.103.62.214   <none>           8000/TCP         12s
kubernetes-dashboard kubernetes-dashboard ClusterIP       10.103.100.159  <none>           443/TCP          12s
[root@kuber-master ~]# kubectl get service -n kubernetes-dashboard
NAME                                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
dashboard-metrics-scraper          ClusterIP       10.103.62.214   <none>           8000/TCP         113s
kubernetes-dashboard               ClusterIP       10.103.100.159  <none>           443/TCP          113s
[root@kuber-master ~]#
```

Instalación de Dashboard

```
[root@kuber-master ~]# kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.3/aio/deploy/recommended.yaml
namespace/kubernetes-dashboard created
serviceaccount/kubernetes-dashboard created
service/kubernetes-dashboard created
secret/kubernetes-dashboard-certs created
secret/kubernetes-dashboard-csrf created
secret/kubernetes-dashboard-key-holder created
configmap/kubernetes-dashboard-settings created
role.rbac.authorization.k8s.io/kubernetes-dashboard created
clusterrole.rbac.authorization.k8s.io/kubernetes-dashboard created
rolebinding.rbac.authorization.k8s.io/kubernetes-dashboard created
clusterrolebinding.rbac.authorization.k8s.io/kubernetes-dashboard created
deployment.apps/kubernetes-dashboard created
service/dashboard-metrics-scraper created
deployment.apps/dashboard-metrics-scraper created
[root@kuber-master ~]# kubectl get services --all-namespaces
NAMESPACE   NAME                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
default     kubernetes          ClusterIP       10.96.0.1        <none>           443/TCP          24m
kube-system kube-dns            ClusterIP       10.96.0.10       <none>           53/UDP,53/TCP,9153/TCP 24m
kubernetes-dashboard dashboard-metrics-scraper ClusterIP       10.103.62.214   <none>           8000/TCP         12s
kubernetes-dashboard kubernetes-dashboard ClusterIP       10.103.100.159  <none>           443/TCP          12s
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# kubectl get service -n kubernetes-dashboard
NAME                                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
dashboard-metrics-scraper          ClusterIP       10.99.138.127   <none>           8000/TCP         19h
kubernetes-dashboard               NodePort        10.96.56.111    <none>           443:30116/TCP    19h
[root@kuber-master ~]#
[root@kuber-master ~]# firewall-cmd --permanent --add-port=30116/tcp
success
```

```
[root@kuber-master ~]# firewall-cmd --reload
success
```

```
[root@kuber-master ~]# kubectl get services --all-namespaces
NAMESPACE   NAME                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
default     kubernetes          ClusterIP       10.96.0.1        <none>           443/TCP          43m
kube-system kube-dns            ClusterIP       10.96.0.10       <none>           53/UDP,53/TCP,9153/TCP 43m
kube-system kubernetes-dashboard ClusterIP       10.111.192.89   <none>           443/TCP          19m
kubernetes-dashboard dashboard-metrics-scraper ClusterIP       10.99.138.127   <none>           8000/TCP         42m
kubernetes-dashboard kubernetes-dashboard ClusterIP       10.96.56.111    <none>           443/TCP          42m
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# kubectl -n kube-system get services
NAME                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kube-dns            ClusterIP       10.96.0.10       <none>           53/UDP,53/TCP,9153/TCP 46m
kubernetes-dashboard ClusterIP       10.111.192.89   <none>           443/TCP          22m
```

```
[root@kuber-master ~]# grep 'client-certificate-data' /etc/kubernetes/admin.conf | head -n 1 | awk '{print $2}' | base64 -d >> kubecfg.crt
[root@kuber-master ~]# cat kubecfg.crt
[root@kuber-master ~]# grep 'client-key-data' /etc/kubernetes/admin.conf | head -n 1 | awk '{print $2}' | base64 -d >> kubecfg.key
[root@kuber-master ~]# cat kubecfg.key
[root@kuber-master ~]# openssl pkcs12 -export -clcerts -inkey kubecfg.key -in kubecfg.crt -out kubecfg.p12 -name "kubernetes-client"
Enter Export Password:
Verifying - Enter Export Password:
```

— — —

To start using your cluster, you need to run the following as a regular user:

Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
<https://kubernetes.io/docs/concepts/cluster-administration/addons/>

Then you can join any number of worker nodes by running the following on each as root:

[illegible]

<div> <div> <div>←</div> <div>→</div> <div>🏠</div> </div> <div>164.96.96.87:8001/api/v1/namespaces/</div> </div> <div> <div>JSON</div> <div>Raw Data</div> <div>Headers</div> </div> <div> <div>Save</div> <div>Copy</div> <div>Collapse All</div> <div>Expand All</div> <div>Filter JSON</div> </div> <pre> { "kind": "NamespaceList", "apiVersion": "v1", "metadata": { "selfLink": "/api/v1/namespaces/", "resourceVersion": "166948" }, "items": [{ "metadata": { "name": "default", "selfLink": "/api/v1/namespaces/default", "uid": "e4bcs8ff-e82f-4874-8307-62291896d3b4", "resourceVersion": "153", "creationTimestamp": "2020-06-22T21:03:01Z" }, "managedFields": [{ "manager": "kube-apiserver", "operation": "update", "apiVersion": "v1", "time": "2020-06-22T21:03:01Z", "fieldType": "FieldsV1", "fieldsV1": { "f:phase": {} } }], "spec": { "finalizers": [{}], "status": { "phase": "Active" } } }, { "metadata": { "name": "kube-node-lease", "selfLink": "/api/v1/namespaces/kube-node-lease", "uid": "2665801d-3b91-4af4-8b6a-0f9e20b4beed", "resourceVersion": "42", "creationTimestamp": "2020-06-22T21:03:00Z" }, "managedFields": [{ "manager": "kube-apiserver", "operation": "update", "apiVersion": "v1", "time": "2020-06-22T21:03:00Z", "fieldType": "FieldsV1", "fieldsV1": { "f:phase": {} } }], "spec": {} }] } </pre>	<div> <div> <div>←</div> <div>→</div> <div>🏠</div> </div> <div>164.96.96.87:8001/api/v1/namespaces/kubernetes-dashboard/services/https:kubernetes-dashboard:/proxy/</div> </div> <div> <div>JSON</div> <div>Raw Data</div> <div>Headers</div> </div> <div> <div>Copy</div> </div> <div>Response Headers</div> <pre> Cache-Control: no-cache, private Content-Length: 218 Content-Type: application/json Date: Tue, 23 Jun 2020 17:07:53 GMT </pre> <div>Request Headers</div> <pre> Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 Accept-Encoding: gzip, deflate Accept-Language: en-US,en;q=0.5 Connection: keep-alive Host: 164.96.96.87:8001 Upgrade-Insecure-Requests: 1 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:78.0) Gecko/20100101 Firefox/78.0 </pre>
--	---



```
[root@kuber-master ~]# kubectl get services --all-namespaces
NAMESPACE      NAME              TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
default         kubernetes        ClusterIP       10.96.0.1        <none>           443/TCP          18h
kube-system     kube-dns          ClusterIP       10.96.0.10       <none>           53/UDP,53/TCP,9153/TCP 18h
kubernetes-dashboard dashboard-metrics-scraper ClusterIP       10.97.165.143    <none>           8000/TCP          4m37s
kubernetes-dashboard kubernetes-dashboard ClusterIP       10.103.229.179   <none>           443/TCP          4m37s
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# export KUBECONFIG=$HOME/admin.conf
[root@kuber-master ~]# kubectl get nodes
NAME        STATUS    ROLES    AGE   VERSION
kuber-master Ready     master   18h   v1.18.4
kuber-nodo1 NotReady  <none>   18h   v1.18.4
[root@kuber-master ~]# kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0/aio/deploy/recommended.yaml
namespace/kubernetes-dashboard created
serviceaccount/kubernetes-dashboard created
service/kubernetes-dashboard created
secret/kubernetes-dashboard-certs created
secret/kubernetes-dashboard-csrf created
secret/kubernetes-dashboard-key-holder created
configmap/kubernetes-dashboard-settings created
role.rbac.authorization.k8s.io/kubernetes-dashboard created
clusterrole.rbac.authorization.k8s.io/kubernetes-dashboard created
rolebinding.rbac.authorization.k8s.io/kubernetes-dashboard created
clusterrolebinding.rbac.authorization.k8s.io/kubernetes-dashboard created
deployment.apps/kubernetes-dashboard created
service/dashboard-metrics-scraper created
deployment.apps/dashboard-metrics-scraper created
[root@kuber-master ~]#
```

kubectl apply -f <https://raw.githubusercontent.com/kubernetes/dashboard/v2.0.0/aio/deploy/recommended.yaml>

```
[root@kuber-master ~]# kubectl get nodes --server=https://164.96.96.87:6443
Please enter Username: admin
Please enter Password: Unable to connect to the server: x509: certificate signed by unknown authority
[root@kuber-master ~]#
```

ERRORES DE NODO

```
root@kuber-nodo2 ~]# systemctl start docker.service
[root@kuber-nodo2 ~]# kubeadm join 164.96.96.87:6443 --token ynn8t2.uxa965p7skrl9cb --discovery-token-ca-cert-hash sha256:8057e1db21296a2c402d763bac8a26dc89fc2bdc053861049d7e762ccadfc2dd
W0622 17:58:55.818843 60285 join.go:346] [preflight] WARNING: JoinControlPlane.settings will be ignored when control-plane flag is not set.
[preflight] Running pre-flight checks
[WARNING IsDockerSystemdCheck]: detected "cgroups" as the Docker cgroup driver. The recommended driver is "systemd". Please follow the guide at https://kubernetes.io/docs/setup/cri/
```


[WARNING HTTPProxy]: Connection to "https://164.96.96.87" uses proxy "http://164.96.27.12:8080". If that is not intended, adjust your proxy settings

PROBLEMAS KUBERNETES

```
[root@kuber-master ~]# kubectl get nodes
Unable to connect to the server: proxyconnect tcp: tls: first record does not look like a TLS handshake
[root@kuber-master ~]#
```

kubeadm init --pod-network-cidr=164.96.96.0/24

```
1013 history
[root@kuber-master ~]# kubeadm init --pod-network-cidr=164.96.96.0/24
W0622 11:37:51.136706 24150 version.go:102] could not fetch a Kubernetes version from the internet: unable to get URL "https://dl.k8s.io/release/stable-1.txt": Get https://dl.k8s.io/release/stable-1.txt: proxyconnect tcp: tls: first record does not look like a TLS handshake
W0622 11:37:51.137005 24150 version.go:103] falling back to the local client version: v1.18.4
W0622 11:37:51.137297 24150 configset.go:202] WARNING: kubeadm cannot validate component configs for API groups [kubelet.config.k8s.io kubeproxy.config.k8s.io]
[init] Using Kubernetes version: v1.18.4
[preflight] Running pre-flight checks
[WARNING HTTPProxy]: Connection to "https://164.96.96.87" uses proxy "https://164.96.27.12:8080". If that is not intended, adjust your proxy settings
[WARNING HTTPProxyCIDR]: connection to "10.96.0.0/12" uses proxy "https://164.96.27.12:8080". This may lead to malfunctioning cluster setup. Make sure that Pod and Services IP ranges specified correctly as exceptions in proxy configuration
[WARNING HTTPProxyCIDR]: connection to "164.96.96.0/24" uses proxy "https://164.96.27.12:8080". This may lead to malfunctioning cluster setup. Make sure that Pod and Services IP ranges specified correctly as exceptions in proxy configuration
[WARNING IsDockerSystemdCheck]: detected "cgroupfs" as the Docker cgroup driver. The recommended driver is "systemd". Please follow the guide at https://kubernetes.io/docs/setup/cri/
error execution phase preflight: [preflight] Some fatal errors occurred:
[ERROR Port-6443]: Port 6443 is in use
[ERROR Port-10259]: Port 10259 is in use
[ERROR Port-10257]: Port 10257 is in use
[ERROR FileAvailable--etc-kubernetes-manifests-kube-apiserver.yaml]: /etc/kubernetes/manifests/kube-apiserver.yaml already exists
[ERROR FileAvailable--etc-kubernetes-manifests-kube-controller-manager.yaml]: /etc/kubernetes/manifests/kube-controller-manager.yaml already exists
[ERROR FileAvailable--etc-kubernetes-manifests-kube-scheduler.yaml]: /etc/kubernetes/manifests/kube-scheduler.yaml already exists
[ERROR FileAvailable--etc-kubernetes-manifests-etcd.yaml]: /etc/kubernetes/manifests/etcd.yaml already exists
[ERROR Port-10250]: Port 10250 is in use
[ERROR Port-2379]: Port 2379 is in use
[ERROR Port-2380]: Port 2380 is in use
[ERROR DirAvailable--var-lib-etcd]: /var/lib/etcd is not empty
[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
[root@kuber-master ~]#
```

kubeadm reset

```
[root@kuber-master ~]#
[root@kuber-master ~]# rm /var/lib/etcd/ -Rf
[root@kuber-master ~]# rm $HOME/.kube/config
rm: remove regular file '/root/.kube/config'? y
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# netstat -natp
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:1:25          0.0.0.0:*               LISTEN      1975/master
tcp        0      0 0.0.0.0:1111         0.0.0.0:*               LISTEN      1237/rpcbind
tcp        0      0 0.0.0.0:122.1:53     0.0.0.0:*               LISTEN      2487/dnsmasq
tcp        0      0 0.0.0.0:22           0.0.0.0:*               LISTEN      1681/sshd
tcp        0      0 164.96.96.87:22      164.96.98.158:64255     ESTABLISHED 2622/sshd: root@pts
tcp6       0      0 :::25               :::*                   LISTEN      1975/master
tcp6       0      0 :::3010             :::*                   LISTEN      2553/node /usr/loca
tcp6       0      0 :::3011             :::*                   LISTEN      2559/node /usr/loca
tcp6       0      0 :::1111             :::*                   LISTEN      1237/rpcbind
tcp6       0      0 :::22               :::*                   LISTEN      1681/sshd
[root@kuber-master ~]#
```

```

[root@kuber-nodol ~]# kubeadm join 164.96.96.87:6443 --token ynn8t2.uxa965p7skrl
19cb \
> --discovery-token-ca-cert-hash sha256:8057e1db21296a2c402d763bac8a26dc89fc
2bdc053861049d7e762ccadfc2dd
W0622 17:06:24.439341 37908 join.go:346] [preflight] WARNING: JoinControlPlane.
controlPlane settings will be ignored when control-plane flag is not set.
[preflight] Running pre-flight checks
[WARNING Service-Docker]: docker service is not enabled, please run 'sys
temctl enable docker.service'
[WARNING IsDockerSystemdCheck]: detected "cgroups" as the Docker cgroup
driver. The recommended driver is "systemd". Please follow the guide at https:/
/kubernetes.io/docs/setup/cri/
[WARNING Service-Kubelet]: kubelet service is not enabled, please run 's
ystemctl enable kubelet.service'
[preflight] Reading configuration from the cluster...
[preflight] FYI: You can look at this config file with 'kubectl -n kube-system g
et cm kubeadm-config -oyaml'
[kubelet-start] Downloading configuration for the kubelet from the "kubelet-conf
ig-l18" ConfigMap in the kube-system namespace
[kubelet-start] Writing kubelet configuration to file "/var/lib/kubelet/config.y
aml"
[kubelet-start] Writing kubelet environment file with flags to file "/var/lib/ku
belet/kubeadm-flags.env"
[kubelet-start] Starting the kubelet
[kubelet-start] Waiting for the kubelet to perform the TLS Bootstrap...

This node has joined the cluster:
* Certificate signing request was sent to apiserer and a response was received.
* The Kubelet was informed of the new secure connection details.

Run 'kubectl get nodes' on the control-plane to see this node join the cluster.

[root@kuber-nodol ~]#

```

```

[certs] Generating "sa" key and public key
[kubeconfig] Using kubeconfig folder "/etc/kubernetes"
[kubeconfig] Writing "admin.conf" kubeconfig file
[kubeconfig] Writing "kubelet.conf" kubeconfig file
[kubeconfig] Writing "controller-manager.conf" kubeconfig file
[kubeconfig] Writing "scheduler.conf" kubeconfig file
[control-plane] Using manifest folder "/etc/kubernetes/manifests"
[control-plane] Creating static Pod manifest for "kube-apiserver"
W0622 11:48:42.983237 2875 manifests.go:225] the default kube-apiserver authorization-mode is "Node,RBAC"; using "Node,RBAC"
[control-plane] Creating static Pod manifest for "kube-scheduler"
W0622 11:48:42.985694 2875 manifests.go:225] the default kube-apiserver authorization-mode is "Node,RBAC"; using "Node,RBAC"
[etcd] Creating static Pod manifest for local etcd in "/etc/kubernetes/manifests"
[wait-control-plane] Waiting for the kubelet to boot up the control plane as static Pods from directory "/etc/kubernetes/manifests".
his can take up to 4m0s.
[kubelet-check] Initial timeout of 40s passed.

```

```

[root@kuber-master ~]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: disabled)
   Drop-In: /etc/systemd/system/docker.service.d
            └─http-proxy.conf
   Active: active (running) since Mon 2020-06-22 11:46:07 -04; 6min ago
     Docs: https://docs.docker.com
   Main PID: 1718 (dockerd)
    Tasks: 20
   Memory: 138.3M
    CGroup: /system.slice/docker.service
            └─1718 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Jun 22 11:46:05 kuber-master dockerd[1718]: time="2020-06-22T11:46:05.228815522-04:00" level=info msg="ccResolverWrapper: sen.
Jun 22 11:46:05 kuber-master dockerd[1718]: time="2020-06-22T11:46:05.228878895-04:00" level=info msg="ClientConn switching b.
Jun 22 11:46:05 kuber-master dockerd[1718]: time="2020-06-22T11:46:05.451974246-04:00" level=info msg="[graphdriver] using pr.
Jun 22 11:46:05 kuber-master dockerd[1718]: time="2020-06-22T11:46:05.972719292-04:00" level=info msg="Loading containers: sta
Jun 22 11:46:06 kuber-master dockerd[1718]: time="2020-06-22T11:46:06.746113780-04:00" level=info msg="Default bridge (docke.
Jun 22 11:46:06 kuber-master dockerd[1718]: time="2020-06-22T11:46:06.850512401-04:00" level=info msg="Loading containers: dor
Jun 22 11:46:07 kuber-master dockerd[1718]: time="2020-06-22T11:46:07.415659869-04:00" level=info msg="Docker daemon" commit=.
Jun 22 11:46:07 kuber-master dockerd[1718]: time="2020-06-22T11:46:07.416635768-04:00" level=info msg="Daemon has completed i.
Jun 22 11:46:07 kuber-master systemd[1]: Started Docker Application Container Engine.
Jun 22 11:46:07 kuber-master dockerd[1718]: time="2020-06-22T11:46:07.472473134-04:00" level=info msg="API listen on /var/run.
Hint: Some lines were ellipsized, use -l to show in full.
[root@kuber-master ~]#

```

```

[root@kuber-master ~]# systemctl status kubelet
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/usr/lib/systemd/system/kubelet.service; enabled; vendor preset: disabled)
   Drop-In: /usr/lib/systemd/system/kubelet.service.d
            └─10-kubeadm.conf
   Active: active (running) since Mon 2020-06-22 11:48:48 -04; 7min ago
     Docs: https://kubernetes.io/docs/
   Main PID: 3156 (kubelet)
    Tasks: 19
   Memory: 45.1M
    CGroup: /system.slice/kubelet.service
            └─3156 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kubelet.conf --kubeconfig=/etc/kubernetes/kubel...

Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.112208 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.165928 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.222053 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.280616 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.339248 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.398080 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.453133 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.511995 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.909817 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Jun 22 11:49:00 kuber-master kubelet[3156]: E0622 11:49:00.310230 3156 event.go:260] Server rejected event 'sv1.Event(Type...Times
Hint: Some lines were ellipsized, use -l to show in full.

```

```

Jun 22 11:48:59 kuber-master kubelet[3156]: I0622 11:48:58.999013 3156 kubelet_node_status.go:73] Successfully registered node kube
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.053946 3156 event.go:260] Server rejected event 'v1.Event{TypeMeta:v1.T
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.077301 3156 controller.go:136] failed to ensure node lease exists, will
Jun 22 11:48:59 kuber-master kubelet[3156]: I0622 11:48:59.085199 3156 reconciler.go:157] Reconciler: start to sync state
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.112208 3156 event.go:260] Server rejected event 'v1.Event{TypeMeta:v1.T
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.165928 3156 event.go:260] Server rejected event 'v1.Event{TypeMeta:v1.T
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.222053 3156 event.go:260] Server rejected event 'v1.Event{TypeMeta:v1.T
Jun 22 11:48:59 kuber-master kubelet[3156]: E0622 11:48:59.280616 3156 event.go:260] Server rejected event 'v1.Event{TypeMeta:v1.T

```

```

root@kuber-nodol:~# systemctl status kubelet
● kubelet.service - kubelet: The Kubernetes Node Agent
   Loaded: loaded (/usr/lib/systemd/system/kubelet.service; disabled; vendor preset: disabled)
   Drop-In: /usr/lib/systemd/system/kubelet.service.d
            └─10-kubeadm.conf
   Active: activating (auto-restart) (Result: exit-code) since Mon 2020-06-22 11:58:47 EDT; 4s ago
     Docs: https://kubernetes.io/docs/
   Process: 24170 ExecStart=/usr/bin/kubelet $KUBELET_KUBECONFIG_ARGS $KUBELET_CONFIG_ARGS $KUBELET_KUBE
ode=exited, status=255)
   Main PID: 24170 (code=exited, status=255)

Jun 22 11:58:47 kuber-nodol systemd[1]: Unit kubelet.service entered failed state.
Jun 22 11:58:47 kuber-nodol systemd[1]: kubelet.service failed.
[root@kuber-nodol ~]#

```

```

[root@kuber-master ~]# rm /var/lib/docker -Rf
rm: cannot remove '/var/lib/docker/containers/c27575ca337f5c6d4463ddcfa8e610b0c3ca5b2bfe241ffa0c2209ca7bcc726/mounts/shm': Device or resource busy
rm: cannot remove '/var/lib/docker/containers/d748ca054827e11f487ff6ad6384830d903c9c20a131d192c36787a563767ea3/mounts/shm': Device or resource busy
rm: cannot remove '/var/lib/docker/containers/6736633350ca98a7733e5ce0882c2eb5f93fc4cfbbaeb967e20f6b13f2c4d3af/mounts/shm': Device or resource busy
rm: cannot remove '/var/lib/docker/containers/99fe90aa71d9d70271f62f6c201f076d1819ae194eea3507ac5bbe27865f9295/mounts/shm': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/1d2820b367064034f43c235e7b70a62baad6883535a8fed988c768459b02bf93/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/ce37ec9e0c4730aa92ce4221fdd3c755ee8dc13e163061278c00alad0bfca039/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/ab7adac3838dc16b566f8477f5ea2b88c894ca0a9fd52d916ae5814e33881e2a/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/7332c8d8702b21510b91ebd2d78e181ca550b17b098a21317b4f2f498d3b0696/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/a73d2aab5fd0dbb16400ee4e12601ab9e0b1683210c992666849de82ae50906e/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/4bab178df88a33d6bf9e9cfc262ebd256d4eaca441efa46bef59cb6048a2304d/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/1f43ee2372a726e90caa2c2e24db9aa5d2927d05d3397eb096c761d229795656/merged': Device or resource busy
rm: cannot remove '/var/lib/docker/overlay2/7e4a356bcd936f43873518b2d416e5df1901d738cc823clef016abf60ffa3bb8/merged': Device or resource busy

```

```

[root@kuber-master ~]# rm /etc/kubernetes -Rf
[root@kuber-master ~]#

```

```

[root@kuber-master ~]# docker ps -a | grep kube | grep -v pause
bc28db383d34 c663567f869e "kube-scheduler --au..." 4 minutes ago Up 4 minutes
k8s_kube-scheduler_kube-scheduler-kuber-master_kube-system_44753c06d528d4f67be4fffb2fdecdbfe_0
0967ea671e44 e8f1690127c4 "kube-controller-man..." 4 minutes ago Up 4 minutes
k8s_kube-controller-manager_kube-controller-manager-kuber-master_kube-system_d6e26ef4310923506d4e656e72f9feb9_0
ba9c88307440 408913fc18eb "kube-apiserver --ad..." 4 minutes ago Up 4 minutes
k8s_kube-apiserver_kube-apiserver-kuber-master_kube-system_09c0e43d4496fe5efb909c3c31312109_0
5693882feded 303ce5db0e90 "etcd --advertise-cl..." 4 minutes ago Up 4 minutes
k8s_etcd_etcd-kuber-master_kube-system_0481f034ed8db009945f6395ed006ca4_0
[root@kuber-master ~]#

```

```

[root@kuber-master ~]# docker images -a
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
[root@kuber-master ~]# docker ps -a | grep kube | grep -v pause
[root@kuber-master ~]# docker system prune -a
WARNING! This will remove:
 - all stopped containers
 - all networks not used by at least one container
 - all images without at least one container associated to them
 - all build cache

Are you sure you want to continue? [y/N] y
Total reclaimed space: 0B
[root@kuber-master ~]#

```

```
10622 12:18:09.823956 14792 checks.go:201] validating availability of port 10250
10622 12:18:09.824102 14792 checks.go:201] validating availability of port 2379
10622 12:18:09.824186 14792 checks.go:201] validating availability of port 2380
10622 12:18:09.824266 14792 checks.go:249] validating the existence and emptiness of directory /var/lib/etcd
[preflight] Some fatal errors occurred:
[ERROR DirAvailable--var-lib-etcd] /var/lib/etcd is not empty
[preflight] If you know what you are doing, you can make a check non-fatal with '--ignore-preflight-errors=...'
error execution phase preflight
k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow.(*Runner).Run.func1
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kub
app/cmd/phases/workflow/runner.go:235
k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow.(*Runner).visitAll
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kub
app/cmd/phases/workflow/runner.go:422
k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow.(*Runner).Run
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kub
app/cmd/phases/workflow/runner.go:207
k8s.io/kubernetes/cmd/kubeadm/app/cmd.NewCmdInit.func1
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kub
app/cmd/init.go:147
k8s.io/kubernetes/vendor/github.com/spf13/cobra.(*Command).execute
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/vendor/
b.com/spf13/cobra/command.go:826
k8s.io/kubernetes/vendor/github.com/spf13/cobra.(*Command).ExecuteC
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/vendor/
b.com/spf13/cobra/command.go:914
k8s.io/kubernetes/vendor/github.com/spf13/cobra.(*Command).Execute
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/vendor/
b.com/spf13/cobra/command.go:864
k8s.io/kubernetes/cmd/kubeadm/app.Run
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5cle3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kub
app/kubeadm.go:50
main.main
_output/dockerized/go/src/k8s.io/kubernetes/cmd/kubeadm/kubeadm.go:25
runtime.main
/usr/local/go/src/runtime/proc.go:203
runtime.goexit
/usr/local/go/src/runtime/asm_amd64.s:1357
[root@kuber-master ~]#
```

```
10622 12:20:05.078653 15030 checks.go:249] validating the existence and emptiness of directory /var/lib/etcd
[preflight] Pulling images required for setting up a Kubernetes cluster
[preflight] This might take a minute or two, depending on the speed of your internet connection
[preflight] You can also perform this action in beforehand using 'kubeadm config images pull'
10622 12:20:05.218845 15030 checks.go:844] pulling k8s.gcr.io/kube-apiserver:v1.18.4
10622 12:20:23.940931 15030 checks.go:844] pulling k8s.gcr.io/kube-controller-manager:v1.18.4
10622 12:20:40.747871 15030 checks.go:844] pulling k8s.gcr.io/kube-scheduler:v1.18.4
10622 12:20:58.131238 15030 checks.go:844] pulling k8s.gcr.io/kube-proxy:v1.18.4
10622 12:21:15.960390 15030 checks.go:844] pulling k8s.gcr.io/pause:3.2
```

```
10622 12:20:58.131238 15030 checks.go:844] pulling k8s.gcr.io/kube-proxy:v1.18.4
10622 12:21:15.960390 15030 checks.go:844] pulling k8s.gcr.io/pause:3.2
10622 12:21:34.802839 15030 checks.go:844] pulling k8s.gcr.io/etcd:3.4.3-0
10622 12:21:50.893803 15030 checks.go:844] pulling k8s.gcr.io/coredns:1.6.7
[preflight] Some fatal errors occurred:
[ERROR ImagePull]: failed to pull image k8s.gcr.io/kube-apiserver:v1.18.4: output: v1.18.4: Pulling from kube-apiserver
83b4483280e5: Pulling fs layer
d16e01831789: Pulling fs layer
open /var/lib/docker/tmp/GetImageBlob204250961: no such file or directory
, error: exit status 1
[ERROR ImagePull]: failed to pull image k8s.gcr.io/kube-controller-manager:v1.18.4: output: v1.18.4: Pulling from kube-contro
ler-manager
83b4483280e5: Pulling fs layer
f0b4ebd2d71c: Pulling fs layer
open /var/lib/docker/tmp/GetImageBlob697015823: no such file or directory
, error: exit status 1
[ERROR ImagePull]: failed to pull image k8s.gcr.io/kube-scheduler:v1.18.4: output: v1.18.4: Pulling from kube-scheduler
83b4483280e5: Pulling fs layer
e68e1f65a560: Pulling fs layer
open /var/lib/docker/tmp/GetImageBlob189289752: no such file or directory
, error: exit status 1
[ERROR ImagePull]: failed to pull image k8s.gcr.io/kube-proxy:v1.18.4: output: v1.18.4: Pulling from kube-proxy
83b4483280e5: Pulling fs layer
cedd2715c2e4: Pulling fs layer
297e97c9c472: Pulling fs layer
67b649411e75: Pulling fs layer
d97928a1765f: Pulling fs layer
ffa39a529ef3: Pulling fs layer
c0abefe40dcd: Pulling fs layer
67b649411e75: Waiting
```

```

c0abefe40dcd: Pulling fs layer
67b649411e75: Waiting
d97928a1765f: Waiting
ffa39a529ef3: Waiting
c0abefe40dcd: Waiting
open /var/lib/docker/tmp/GetImageBlob429745777: no such file or directory
, error: exit status 1
[ERROR ImagePull]: failed to pull image k8s.gcr.io/pause:3.2: output: 3.2: Pulling from pause
c74f8866df09: Pulling fs layer
open /var/lib/docker/tmp/GetImageBlob742007824: no such file or directory
, error: exit status 1
[ERROR ImagePull]: failed to pull image k8s.gcr.io/etcd:3.4.3-0: output: 3.4.3-0: Pulling from etcd
39fafc057541: Pulling fs layer
3736e1e115b8: Pulling fs layer
79de61f59f2e: Pulling fs layer
open /var/lib/docker/tmp/GetImageBlob139279288: no such file or directory
, error: exit status 1
[ERROR ImagePull]: failed to pull image k8s.gcr.io/coredns:1.6.7: output: 1.6.7: Pulling from coredns
c6568d217a00: Pulling fs layer
ff0415ad7f19: Pulling fs layer
open /var/lib/docker/tmp/GetImageBlob755271776: no such file or directory
, error: exit status 1
[preflight] If you know what you are doing, you can make a check non-fatal with '--ignore-preflight-errors=...'
error execution phase preflight
k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow.(*Runner).Run.func1
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5c1e3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow/runner.go:235
k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow.(*Runner).visitAll
/workspace/anago-v1.18.4-rc.0.49+d809d9abe5c1e3/src/k8s.io/kubernetes/_output/dockerized/go/src/k8s.io/kubernetes/cmd/kubeadm/app/cmd/phases/workflow/runner.go:235

```

```

[root@kuber-master docker]# rm -rf /var/lib/docker/tmp
[root@kuber-master docker]# systemctl restart docker
[root@kuber-master docker]# cd /var/lib/docker/tmp
[root@kuber-master tmp]# ls
[root@kuber-master tmp]#

```

```

tcp6 0 0 164.96.96.87:6443 164.96.96.87:58486 ESTABLISHED 19633/kube-apiserver
[root@kuber-master tmp]# kubeadm reset
[reset] Reading configuration from the cluster...
[reset] FYI: You can look at this config file with 'kubectl -n kube-system get cm kubeadm-config -oyaml'

```

kubectl -n kube-system get cm kubeadm-config -oyaml

```

[root@kuber-master tmp]# kubectl -n kube-system get cm kubeadm-config -oyaml
The connection to the server localhost:8080 was refused - did you specify the right host or port?
[root@kuber-master tmp]#

```

```

[root@kuber-master tmp]# iptables -L
Chain INPUT (policy ACCEPT)
target prot opt source destination

Chain FORWARD (policy ACCEPT)
target prot opt source destination

Chain OUTPUT (policy ACCEPT)
target prot opt source destination
[root@kuber-master tmp]# netstat -natp
Active Internet connections (servers and established)
Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name
tcp 0 0 0.0.0.0:111 0.0.0.0:* LISTEN 1975/master
tcp 0 0 0.0.0.0:111 0.0.0.0:* LISTEN 1237/rpcbind
tcp 0 0 192.168.122.1:53 0.0.0.0:* LISTEN 2487/dnsmasq
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN 1681/sshd
tcp 0 64 164.96.96.87:22 164.96.96.158:64255 ESTABLISHED 2622/sshd: root@pts
tcp6 0 0 :::125 :::* LISTEN 1975/master
tcp6 0 0 :::3010 :::* LISTEN 2553/node /usr/loca
tcp6 0 0 :::3011 :::* LISTEN 2559/node /usr/loca
tcp6 0 0 :::1111 :::* LISTEN 1237/rpcbind
tcp6 0 0 :::22 :::* LISTEN 1681/sshd
[root@kuber-master tmp]# rm /var/lib/etcd/ -rf
[root@kuber-master tmp]#

```

```

[root@kuber-master ~]# kubectl get nodes -o wide
The connection to the server localhost:8080 was refused - did you specify the right host or port?
[root@kuber-master ~]# lsof -i | grep 8080
[root@kuber-master ~]# netstat -natp | grep 8080
tcp 0 0 164.96.96.87:48418 164.96.27.12:8080 ESTABLISHED 24798/kube-schedule
tcp 0 0 164.96.96.87:48352 164.96.27.12:8080 TIME_WAIT -
tcp 0 0 164.96.96.87:48288 164.96.27.12:8080 TIME_WAIT -
tcp 0 0 164.96.96.87:48366 164.96.27.12:8080 ESTABLISHED 24798/kube-schedule
tcp 0 0 164.96.96.87:48368 164.96.27.12:8080 ESTABLISHED 24798/kube-schedule
tcp 0 0 164.96.96.87:48362 164.96.27.12:8080 ESTABLISHED 24798/kube-schedule
tcp 0 0 164.96.96.87:48382 164.96.27.12:8080 ESTABLISHED 24693/kube-controll
tcp 0 0 164.96.96.87:48370 164.96.27.12:8080 ESTABLISHED 24693/kube-controll
tcp 0 0 164.96.96.87:48376 164.96.27.12:8080 ESTABLISHED 24798/kube-schedule
tcp 0 0 164.96.96.87:48304 164.96.27.12:8080 TIME_WAIT -
tcp 0 0 164.96.96.87:48420 164.96.27.12:8080 ESTABLISHED 24693/kube-controll
tcp 0 0 164.96.96.87:48338 164.96.27.12:8080 TIME_WAIT -

```



```
[root@kuber-master ~]# export KUBERNETES_MASTER=http://164.96.96.87:8080
[root@kuber-master ~]# env | grep KUBER
KUBERNETES_MASTER=http://164.96.96.87:8080
[root@kuber-master ~]# kubectl get nodes -o wide
Error from server (InternalError): an error on the server ("[DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN/" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">\n<html>\n<!-- FileName: index.html\n Language: [en]\n-->\n<!-- Head->\n<meta content=""\n <meta content=""\n charset=UTF-8"/>\n http-equiv="Content-Type">\n<!-- Content-Type=>\n<!-- http-equiv="X-UA-Compatible" content="IE=7"/>\n<!-- title=Bloqueado por SRCEe</title>\n<script src="//mwg-internal.de5fs23hu73ds/files/javascript/sw.js" type="text/javascript"></script>\n<link rel="stylesheet" href="//mwg-internal.de5fs23hu73ds/files/default/stylesheet.css" />\n</head>\n<!-- Head->\n<Body->\n<nbody onload="swonload(;)"/>\n<table class="bodyTable">\n<n<tr>\n<td class="bodyData" background="//mwg-internal.de5fs23hu73ds/files/default/img/bg_body.gif"/>\n<n<!-- Logo-->\n<n<table class="logoTable">\n<n<tr>\n<td class="logoData">\n<a href="//www.mcafee.com">\n\n<a/>\n</td>\n</tr>\n</table>\n<n<!-- Logo-->\n<n<!-- Contents-->\n<n<!-- FileName: cannotconnect.html\n Language: [en]\n-->\n<n<!-- Title->\n<n<table class="titleTable" background="//mwg-internal.de5fs23hu73ds/files/default/img/bg_navbar.jpg">\n<n<tr>\n<td class="titleData">\nCannot connect\n</td>\n</tr>\n</table>\n<n<!-- Title-->\n<n<n<!-- Content-->\n<n<table class="contentTable">\n<n<tr>\n<td class="contentData">\n<n>\n<n>\nThe proxy could not connect to the destination in time.\n<n</td>\n</tr>\n</table>\n<n<!-- Content-->\n<n<n<!-- Info-->\n<n<table class="infoTable">\n<n<tr>\n<td class="infoData">\n<bURL: </b></script type="text/javascript">break_line("http://164.96.96.87:8080/apitimeout=32s")</script><br />\n<n<p class="proxyRefusedData">Failure description: Connection refused: cannot connect:server state:1:state 9:Application response 502 cannot connect</p>\n<n</td>\n</tr>\n</table>\n<n<!-- Info-->\n<n<n<!-- Content-->\n<n<!-- Policy->\n<n<table class="policyTable">\n<n<tr>\n<td class="policyHeading">\n<hr>\nPolítica de Seguridad Interna\n</td>\n</tr>\n</table>\n<n<tr>\n<td class="policyData">\n"Si tien") has prevented the request from succeeding
```

```
kubeadm reset
rm -rf .kube/
rm -rf /etc/kubernetes/
rm -rf /var/lib/kubelet/
rm -rf /var/lib/docker/
rm -rf /var/lib/etcd/

kubeadm init --pod-network-cidr=164.96.0/24
rm /var/lib/etcd/ -Rf
[addons] Applied essential addon: kube-proxy
kubeadm reset

rm -rf $HOME/.kube/
rm /var/lib/etcd/ -Rf
netstat -natp

kubeadm reset
rm /var/lib/docker -Rf
rm /etc/kubernetes -Rf
```

```
kubectl apply -f https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml
```

[illegible]

```
756 kubectl init --pod-network-cidr=164.96.96.0/24
757 mkdir -p $HOME/.kube
758 cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
759 chown $(id -u):$(id -g) $HOME/.kube/config
760 kubectl apply -f https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml
761 kubectl get nodes
762 kubectl get pods --all-namespaces
```

```
# env | grep -i _proxy
HTTP_PROXY=http://192.168.42.214:3128
https_proxy=http://192.168.42.214:3128
http_proxy=http://192.168.42.214:3128
no_proxy=localhost,127.0.0.1,localaddress,.localdomain.com,.localdomain.local,192.168.0.0/16,10.96.0.0/12,172.25.50.21,172.25.50.22,172.25.50.23,172.25.50.24
NO_PROXY=localhost,127.0.0.1,localaddress,.localdomain.com,.localdomain.local,192.168.0.0/16,10.96.0.0/12,172.25.50.21,172.25.50.22,172.25.50.23,172.25.50.24
HTTPS_PROXY=http://192.168.42.214:3128
```

1. swap
2. DNS and hostnames
3. set correctly NO_PROXY
4. check situation with docker. proxy setting might be needed to be adjusted there as well

```
docker info | grep -i cgroup
cat /etc/systemd/system/kubelet.service.d/10-kubeadm.conf
```

```
[root@kuber-master ~]# history | egrep 'no_proxy|proxy'
675 export https_proxy=http://164.96.27.12:8080
676 export http_proxy=http://164.96.27.12:8080
677 export no_proxy=164.96.96.87
678 export no_proxy=164.96.96.87,127.0.0.1
860 export https_proxy=http://164.96.27.12:8080
861 export http_proxy=http://164.96.27.12:8080
862 export no_proxy=164.96.96.87
863 export no_proxy=164.96.96.87,127.0.0.1
971 kubectl proxy
1027 export https_proxy="http://164.96.27.12:8080"
1304 kubectl proxy --port=8080
```



```
1305 history | grep proxy
1334 history | grep no_proxy
1335 history | grep no_proxy|proxy
1336 history | egrep no_proxy|proxy
1337 history | egrep 'no_proxy|proxy'
```

```
[root@kuber-master ~]# cat > /etc/docker/daemon.json <<EOF
{
  "exec-opts": ["native.cgroupdriver=systemd"],
  "log-driver": "json-file",
  "log-opts": {
    "max-size": "100m"
  },
  "storage-driver": "overlay2",
  "storage-opts": [
    "overlay2.override_kernel_check=true"
  ]
}
EOF
[root@kuber-master ~]# cat /etc/docker/daemon.json
{
  "exec-opts": ["native.cgroupdriver=systemd"],
  "log-driver": "json-file",
  "log-opts": {
    "max-size": "100m"
  },
  "storage-driver": "overlay2",
  "storage-opts": [
    "overlay2.override_kernel_check=true"
  ]
}
```

```
[root@kuber-master ~]# mkdir -p /etc/systemd/system/docker.service.d
[root@kuber-master ~]# systemctl daemon-reload
[root@kuber-master ~]# systemctl restart docker
```

```
[root@kuber-master ~]# kubectrl proxy --port=8080
Starting to serve on 127.0.0.1:8080
```

```
[root@kuber-master ~]# kubectl version
Client Version: version.Info{Major:"1", Minor:"18", GitVersion:"v1.18.4", GitCommit:"c96aede7b5205121079932896c4ad89bb93260af", GitTreeState:"clean", BuildDate:"2020-11-11T12:13:59Z", GoVersion:"go1.15.2", Compiler:"gc", Platform:"linux/amd64"}
The connection to the server 164.96.96.87:8080 was refused - did you specify the right host or port?
[root@kuber-master ~]#
```

```
[root@kuber-master ~]# docker info | grep -i cgroup
Cgroup Driver: systemd
[root@kuber-master ~]#
```

Netnet

```
kubeadm init --apiserver-advertise-address=164.96.96.97 --pod-network-cidr=164.96.96.0/24
```

```
kubeadm init --pod-network-cidr=164.96.96.0/24
rm /var/lib/etcd -Rf
[addons] Applied essential addon: kube-proxy
kubeadm reset

rm -rf $HOME/.kube/
rm /var/lib/etcd -Rf
netstat -natp

kubeadm reset
rm /var/lib/docker -Rf
rm /etc/kubernetes -Rf
```

```
kubeadm config images pull
kubeadm config view --v=5
941 kubeadm init --pod-network-cidr=164.96.96.0/24
942 mkdir -p $HOME/.kube
943 cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
944 chown $(id -u):$(id -g) $HOME/.kube/config
945 kubectl apply -f https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml
946 kubectl get nodes
947 kubectl get pods --all-namespaces kubeadm config view --v=5
60 export https_proxy=http://164.96.27.12:8080
861 export http_proxy=http://164.96.27.12:8080
```

```
84 cat /etc/systemd/system/kubelet.service.d/10-kubeadm.conf
865 cat /etc/systemd/system/kubelet.service.d/10-kubeadm.conf
847 history | grep init
848 kubeadm init --pod-network-cidr=164.96.96.0/24
849 rm /var/lib/etcd/ -Rf
850 kubeadm reset
851 $HOME/.kube/config file.
852 rm -rf $HOME/.kube/
853 netstat -natp
854 history
855 rm /var/lib/etcd/ -Rf
856 kubeadm init --pod-network-cidr=164.96.96.0/24
857 swapoff -a
858 kubeadm init
859 rm /var/lib/etcd/ -Rf
1 kubeadm init
812 iptables -L
813 firewall-cmd --permanent --add-port=6443/tcp
814 firewall-cmd --reload
815 modprobe br_netfilter
816 echo '1' > /proc/sys/net/bridge/bridge-nf-call-iptables
817 history | grep reset
818 kubeadm reset
819 rm -rf $HOME/.kube/config
820 history | grep init
821 kubeadm init --apiserver-advertise-address=164.96.96.87 --pod-network-cidr=164.96.96.0/24
822 yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
823 kubeadm reset
824 rm -rf $HOME/.kube/config
825 kubeadm reset
826 history | grep init
827 kubeadm init --pod-network-cidr=164.96.96.0/24
828 rm /var/lib/etcd/ -Rf
829 kubeadm reset
830 $HOME/.kube/config file.
831 rm -rf $HOME/.kube/
832 netstat -natp
833 history
834 rm /var/lib/etcd/ -Rf
835 kubeadm init --pod-network-cidr=164.96.96.0/24
836 swapoff -a
837 kubeadm init
838 rm /var/lib/etcd/ -Rf
839 kubeadm init
840 docker info | grep -i cgroup
841 kubectl get pods --all-namespaces
842 kubectl get nodes
843 cat /etc/systemd/system/kubelet.service.d/10-kubeadm.conf
844 systemctl daemon-reload
845 systemctl restart kubelet
846 kubectl create service nodeport nginx --tcp=80:80
847 rm /var/lib/docker -Rf
848 rm /etc/kubernetes -Rf
849 systemctl stop docker
850 rm /var/lib/docker -Rf
851 kubeadm version
852 ./kubeadm init
853 kubeadm init
854 kubeadm version
855 kubeadm init
856 systemctl status kubelet
857 systemctl status kubelet
858 journalctl -xeu kubelet
859 env
860 export https_proxy=http://164.96.27.12:8080
861 export http_proxy=http://164.96.27.12:8080
862 export no_proxy=164.96.96.87
--More--
```

SeAPLICACIONES MULTI-CONTENEDORES

Docker Compose

- Contenedores
- Imágenes
- Volúmenes
- Redes

```
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$ docker-compose up -d
Creating network "docker-compose_default" with the default driver
Creating nginx1 ... done
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$ cat docker-compose.yml
version: '3'
services:
  web:
    container_name: nginx1
    ports:
      - "8080:80"
    image: nginx
```

```
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
6ea138cf5bc3       nginx              "/docker-entrypoint..." 4 minutes ago       Up 4 minutes       0.0.0.0:8080->80/tcp  nginx1
65cd1e158df6       scastell77/zk-tcat8:fabian "/bin/sh -c '/opt/to..." 18 hours ago        Up 18 hours        0.0.0.0:8888->8080/tcp  fabian3
```

[sudo pwn](#)

← → ↻ ⓘ No es seguro | 164.96.96.87:8080

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org.
Commercial support is available at nginx.com.

Thank you for using nginx.

```
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$ docker-compose down
Stopping nginx1 ... done
Removing nginx1 ... done
Removing network docker-compose_default
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$
```

```
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$ docker-compose up -d
Creating network "docker-compose_default" with the default driver
Pulling web (mysql:5.7)...
559a31e96ff4: Pull complete
51ce1c2e575: Pull complete
2344adc4858: Pull complete
cf3ceff18fc: Pull complete
6da0c38dc5b: Pull complete
905d1797e97: Pull complete
b50d1c6b05c: Pull complete
85174a87144: Pull complete
4ad33703fa8: Pull complete
7a5433ce20d: Pull complete
dcd2a278b4a: Pull complete
Digest: sha256:32f9d9a069f7a735e28fd44ea944d53c61f990ba71460c5c183e610854ca4854
Status: Downloaded newer image for mysql:5.7
Creating mysql1 ... done
```

```
[tomcatj8@RVM-JAVA-ZEKE docker-compose]$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
750e75db009       mysql:5.7          "docker-entrypoint.s..." 17 seconds ago      Up 15 seconds      0.0.0.0:3306->3306/tcp, 33060/tcp  mysql1
5cd1e158df6       scastell77/zk-tcat8:fabian "/bin/sh -c '/opt/to..." 18 hours ago        Up 18 hours        0.0.0.0:8888->8080/tcp  fabian3
```

```
[tomcatj8@RVM-JAVA-2EKE docker-compose]$ docker exec -ti mysql1 bash
root@1750e75db009:/# env
MYSQL_MAJOR=5.7
HOSTNAME=1750e75db009
PWD=/
MYSQL_ROOT_PASSWORD=123456
HOME=/root
MYSQL_VERSION=5.7.30-1debian10
GOSU_VERSION=1.12
TERM=xterm
SHLVL=1
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
=/usr/bin/env
```

```
root@1750e75db009:/# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.30 MySQL Community Server (GPL)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> 
```

```
[tomcatj8@RVM-JAVA-2EKE ~]$ docker info | grep Dir
WARNING: bridge-nf-call-iptables is disabled
WARNING: bridge-nf-call-ip6tables is disabled
Docker Root Dir: /var/lib/docker
[tomcatj8@RVM-JAVA-2EKE ~]$ 
```

```
[root@RVM-JAVA-2EKE dock-nginx_vol2]# ls -l
total 0
drwxr-xr-x. 2 root root 40 Jun 17 11:29 _data
[root@RVM-JAVA-2EKE dock-nginx_vol2]# cd _data/
[root@RVM-JAVA-2EKE _data]# ls
50x.html  index.html
[root@RVM-JAVA-2EKE _data]# cp index.html index-old.html
[root@RVM-JAVA-2EKE _data]# vi index.html
[root@RVM-JAVA-2EKE _data]# pwd
/var/lib/docker/volumes/dock-nginx_vol2/_data
[root@RVM-JAVA-2EKE _data]# 
```

← → ↻ ⓘ No es seguro | 164.96.96.87:8080

:)


Run a command in a new container

```
[root@okd ~]# docker run -d -p 192.168.0.100:8000:8000 -p 192.168.0.100:9000:9000 -v /var/run/docker.sock:/var/run/docker.sock -v portainer_data:/data portainer/portainer
```

Unable to find image 'portainer/portainer:latest' locally
latest: Pulling from portainer/portainer
d1e017099d17: Pull complete
cc61cd4105c3: Downloading 11.89MB/24.61MB

independiente (ejecutando Windows Containers): la nota debe ser

← → ↻ No es seguro | 192.168.0.100:9000/#/init/admin

 portainer.io

Please create the initial administrator user.

Username


Password


Confirm password ✓


✗ The password must be at least 8 characters long

[Create user](#)

Connect Portainer to the Docker environment you want to manage.

 **Local**
Manage the local Docker environment

 **Remote**
Manage a remote Docker environment

 **Agent**
Connect to a Portainer agent

Information

Connect Portainer to a remote Docker environment using the Docker API over TCP.

! The Docker API must be exposed over TCP. You can find more information about how to expose the Docker API over TCP in the [Docker documentation](#).

Environment

Name

Endpoint URL

TLS ☐

[Connect](#)

root@okd:~/docker-compose

version: '3'

services:

db:

image: mysql:5.7
environment:
 MYSQL_ROOT_PASSWORD: master
 MYSQL_DATABASE: test
 MYSQL_USER: user01
 MYSQL_PASSWORD: master
ports:
 - "3306:3306"

web:

image: php:7.2.2-apache
container_name: php_web
depends_on:
 - db
volumes:
 - ./php:/var/www/html/
ports:
 - "8100:80"
stdin_open: true
tty: true

~

~

```
[root@okd docker-compose]# docker-compose ps
   Name                                Command                                State      Ports
   ---                                -
docker-compose_db_1    docker-entrypoint.sh mysqld           Exit 0
php_web                docker-php-entrypoint apac ...        Exit 0
[root@okd docker-compose]# docker-compose start
Starting db ... done
Starting web ... done
[root@okd docker-compose]# docker-compose ps
   Name                                Command                                State      Ports
   ---                                -
docker-compose_db_1    docker-entrypoint.sh mysqld           Up         0.0.0.0:3306->3306/tcp, 33060/tcp
php_web                docker-php-entrypoint apac ...        Up         0.0.0.0:80->80/tcp
[root@okd docker-compose]# docker-compose down
Stopping php_web ... done
Stopping docker-compose_db_1 ... done
Removing php_web ... done
Removing docker-compose_db_1 ... done
Removing network docker-compose_default
[root@okd docker-compose]# docker-compose ps
   Name                                Command                                State      Ports
   ---                                -
[root@okd docker-compose]#
```

```
yum -y install yum-utils vim
yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
yum install -y docker-ce docker-ce-cli containerd.io
mkdir /etc/docker /etc/containers
#Disabling selinux.
sed -i 's/enforcing/disabled/g' /etc/selinux/config
setenforce 0
cat << EOF >/etc/docker/daemon.json
{
  "insecure-registries": [
    "172.30.0.0/16"
  ]
}
EOF
cat << EOF > /etc/containers/registries.conf
[registries.insecure]
registries = ['172.30.0.0/16']
EOF
sudo systemctl daemon-reload
sudo systemctl restart docker
```

-----sudo systemctl enable docker-----...


```
[root@devops CentosAnsible]# ansible-playbook -C playbook.yml -i inventory
PLAY [servers] *****
TASK [Gathering Facts] *****
ok: [servera]
TASK [Instalar apache] *****
changed: [servera]
TASK [Levantar apache] *****
changed: [servera]
PLAY RECAP *****
servera : ok=3 changed=2 unreachable=0 failed=0 skipped=0 r
ued=0 ignored=0

[root@devops CentosAnsible]# vim playbook.yml
```

```
~ [main]: user interrupted execution

[root@devops CentosAnsible]# ansible-playbook --syntax-check playbook.yml -i inventory
playbook: playbook.yml
```

```
[root@devops CentosAnsible]# ansible-playbook playbook.yml -i inventory

PLAY [servers] *****
TASK [Gathering Facts] *****
ok: [servera]
TASK [Instalar apache] *****
changed: [servera]
TASK [Levantar apache] *****
```

Doc

```
[root@RVM-JAVA-2EKE ~]# docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS
PORTS              NAMES
[root@RVM-JAVA-2EKE ~]# docker images
REPOSITORY          TAG                IMAGE ID            CREATED             SIZE
[root@RVM-JAVA-2EKE ~]#
```

```

- hosts: servers
  tasks:
    - name: "Instalar apache"
      yum:
        name: httpd
        state: latest
    - name: "Levantar apache"
      service:
        name: httpd
        state: started

```

```
[root@devops CentosAnsible]# ansible-playbook -C playbook.yml -i inventory
PLAY [servers] *****
TASK [Gathering Facts] *****
ok: [servera]
```