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QUESTION 1

4025/10N 1
Analyze and edit the given Dockerfile
1.
FROM ubuntu:latest
2.
RUN apt-get update -y
3.
RUN apt-install nginx -y
4.
COPY entrypoint.sh /
5.
ENTRYPOINT ["/entrypoint.sh"]
6.
USER ROOT
Fixing two instructions present in the file being prominent security best practice issues
Analyze and edit the deployment manifest file
1.
apiVersion: v1
2.
kind: Pod
3.
metadata:
4.
name: security-context-demo-2
5.
spec:
6.
securityContext:

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7.

runAsUser: 1000

8.

containers:

9.

- name: sec-ctx-demo-2 10.image: gcr.io/google-samples/node-hello:1.0 11.securityContext: 12.runAsUser: 0 13.privileged: True 14.allowPrivilegeEscalation: false

Fixing two fields present in the file being prominent security best practice issues

Don\\'t add or remove configuration settings; only modify the existing configuration settings

Whenever you need an unprivileged user for any of the tasks, use user test-user with the user id 5487

A. See the explanation below:

B. PlaceHolder

Correct Answer: A

FROM debian:latest MAINTAINER k@bogotobogo.com

#1 - RUN RUN apt-get update and and DEBIAN FRONTEND=noninteractive apt-get install -yq apt-utils RUN DEBIAN FRONTEND=noninteractive apt-get install -yg htop RUN apt-get clean

2 - CMD #CMD ["htop"] #CMD ["Is", "-I"]

#3 - WORKDIR and ENV WORKDIR /root ENV DZ version1 \$ docker image build -t bogodevops/demo . Sending build context to Docker daemon 3.072kB

Step 1/7: FROM debian:latest ---> be2868bebaba

Step 2/7: MAINTAINER k@bogotobogo.com ---> Using cache ---> e2eef476b3fd

Step 3/7: RUN apt-get update and and DEBIAN_FRONTEND=noninteractive apt-get install -yq apt-utils ---> Using cache ---> 32fd044c1356

Step 4/7: RUN DEBIAN_FRONTEND=noninteractive apt-get install -yq htop ---> Using cache ---> 0a5b514a209e

Step 5/7: RUN apt-get clean ---> Using cache ---> 5d1578a47c17

Step 6/7: WORKDIR /root ---> Using cache ---> 6b1c70e87675

Step 7/7: ENV DZ version1 ---> Using cache ---> cd195168c5c7 Successfully built cd195168c5c7 Successfully tagged bogodevops/demo:latest

QUESTION 2

Enable audit logs in the cluster, To Do so, enable the log backend, and ensure that

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1.

logs are stored at /var/log/kubernetes/kubernetes-logs.txt.

2.

Log files are retained for 5 days.

3.

at maximum, a number of 10 old audit logs files are retained. Edit and extend the basic policy to log:

1.

Cronjobs changes at RequestResponse

2.

Log the request body of deployments changes in the namespace kube-system.

3.

Log all other resources in core and extensions at the Request level.

4.

Don\\'t log watch requests by the "system:kube-proxy" on endpoints or

A. See explanation below.

B. PlaceHolder

Correct Answer: A

QUESTION 3

You must complete this task on the following cluster/nodes:

Cluster: trace Master node: master Worker node: worker1

You can switch the cluster/configuration context using the following command:

[desk@cli] \$ kubectl config use-context trace

Given: You may use Sysdig or Falco documentation.

Task:

Use detection tools to detect anomalies like processes spawning and executing something weird frequently in the single container belonging to Pod tomcat.

Two tools are available to use:



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1.

falco

2.

sysdig

Tools are pre-installed on the worker1 node only.

Analyse the container\\'s behaviour for at least 40 seconds, using filters that detect newly spawning and executing processes.

Store an incident file at /home/cert masters/report, in the following format:

[timestamp],[uid],[processName]

Note: Make sure to store incident file on the cluster\\'s worker node, don\\'t move it to master node.

A. See the explanation below

B. PlaceHolder

Correct Answer: A

\$vim /etc/falco/falco rules.local.yaml uk.co.certification.simulator.questionpool.PList@120e24d0 \$kill -1 Explanation[desk@cli] \$ ssh node01[node01@cli] \$ vim /etc/falco_rules.yamlsearch for Container Drift Detected and paste in falco rules.local.yaml[node01@cli] \$ vim /etc/falco/falco rules.local.yaml

-rule: Container Drift Detected (open+create) desc: New executable created in a container due to open+create condition: > evt.type in (open,openat,creat) and evt.is_open_exec=true and container and not runc_writing_exec_fifo and not runc writing var lib docker and not user known container drift activities and evt.rawres>=0 output: > %evt.time,%user.uid,%proc.name # Add this/Refer falco documentation priority: ERROR [node01@cli] \$ vim /etc/falco/falco.yaml

QUESTION 4

Fix all issues via configuration and restart the affected components to ensure the new setting takes effect.

Fix all of the following violations that were found against the API server:

1.

Ensure the --authorization-mode argument includes RBAC

2.

Ensure the --authorization-mode argument includes Node

3.

Ensure that the --profiling argument is set to false

Fix all of the following violations that were found against the Kubelet:

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1

Ensure the --anonymous-auth argument is set to false.

2.

Ensure that the --authorization-mode argument is set to Webhook. Fix all of the following violations that were found against the ETCD:

Ensure that the --auto-tls argument is not set to true Hint: Take the use of Tool Kube-Bench

A. See the below.

B. PlaceHolder

Correct Answer: A

API server:

Ensure the --authorization-mode argument includes RBAC

Turn on Role Based Access Control.Role Based Access Control (RBAC) allows fine- grained control over the operations that different entities can perform on different objects in the cluster. It is recommended to use the RBAC authorization

mode.

Fix - BuildtimeKubernetesapiVersion: v1

kind: Pod

metadata:

creationTimestamp: null

labels:

component: kube-apiserver

tier: control-plane

name: kube-apiserver

namespace: kube-system

spec:

containers:

-command: + - kube-apiserver + - --authorization-mode=RBAC,Node image: gcr.io/google_containers/kube-apiserver-amd64:v1.6.0 livenessProbe: failureThreshold: 8 httpGet: host: 127.0.0.1 path: /healthz port: 6443 scheme: HTTPS initialDelaySeconds: 15 timeoutSeconds: 15 name: kube-apiserver-should-pass resources: requests: cpu: 250m volumeMounts:

-

mountPath: /etc/kubernetes/ name: k8s readOnly: true



mountPath: /etc/ssl/certs name: certs mountPath: /etc/pki name: pki hostNetwork: true volumes: hostPath: path: /etc/kubernetes name: k8s hostPath: path: /etc/ssl/certs name: certs hostPath: path: /etc/pki name: pki Ensure the --authorization-mode argument includes Node Remediation: Edit the API server pod specification file /etc/kubernetes/manifests/kube- apiserver.yaml on the master node and set the --authorization-mode parameter to a value that includes Node. --authorization-mode=Node,RBAC Audit: /bin/ps -ef | grep kube-apiserver | grep -v grep Expected result: \\'Node,RBAC\\' has \\'Node\\' Ensure that the --profiling argument is set to false Remediation: Edit the API server pod specification file /etc/kubernetes/manifests/kube-apiserver.yaml on the master node and set the below parameter. --profiling=false Audit: /bin/ps -ef | grep kube-apiserver | grep -v grep Expected result: \\'false\\' is equal to \\'false\\' Fix all of the following violations that were found against the Kubelet: uk.co.certification.simulator.questionpool.PList@e3e35a0

enabled to false. If using executable arguments, edit the kubelet service file

Remediation: If using a Kubelet config file, edit the file to set authentication: anonymous:



/etc/systemd/system/kubelet.service.d/10-kubeadm.conf on each worker node and set the below parameter in

KUBELET_SYSTEM_PODS_ARGS variable.
anonymous-auth=false
Based on your system, restart the kubelet service. For example:
systemctl daemon-reload
systemctl restart kubelet.service
Audit:
/bin/ps -fC kubelet
Audit Config:
/bin/cat /var/lib/kubelet/config.yaml
Expected result:
\\'false\\' is equal to \\'false\\'
2) Ensure that theauthorization-mode argument is set to Webhook.
Audit
docker inspect kubelet jq -e \\'.[0].Args[] match("authorization- mode=Webhook").string\\'
Returned Value:authorization-mode=Webhook
Fix all of the following violations that were found against the ETCD:
a. Ensure that theauto-tls argument is not set to true
Do not use self-signed certificates for TLS. etcd is a highly-available key value store used by Kubernetes deployments for persistent storage of all of its REST API objects. These objects are sensitive in nature and should not be available to unauthenticated clients. You should enable the client authentication via valid certificates to secure the access to the etcd service.
Fix - BuildtimeKubernetesapiVersion: v1 kind: Pod metadata: annotations: scheduler.alpha.kubernetes.io/critical-pod: ""creationTimestamp: null labels: component: etcd tier: control-plane name: etcd namespace: kube-system spec: containers:
-command:
+ - etcd
+auto-tls=true
image: k8s.gcr.io/etcd-amd64:3.2.18
imagePullPolicy: IfNotPresent
livenessProbe:
exec:

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command:
-/bin/sh
ec
-ETCDCTL_API=3 etcdctlendpoints=https://[192.168.22.9]:2379 cacert=/etc/kubernetes/pki/etcd/ca.crt
cert=/etc/kubernetes/pki/etcd/healthcheck-client.crt key=/etc/kubernetes/pki/etcd/healthcheck-client.key get foo
failureThreshold: 8
initialDelaySeconds: 15
timeoutSeconds: 15
name: etcd-should-fail
resources: {}
volumeMounts:
-
mountPath: /var/lib/etcd
name: etcd-data
-
mountPath: /etc/kubernetes/pki/etcd
name: etcd-certs
hostNetwork: true
priorityClassName: system-cluster-critical
volumes:
-
hostPath:
path: /var/lib/etcd
type: DirectoryOrCreate
name: etcd-data
-
hostPath:
path: /etc/kubernetes/pki/etcd

type: DirectoryOrCreate



name: etcd-certs

status: {}

```
ndidate@cli:~$ kubectl delete sa/podrunner
 serviceaccount "podrunner" deleted candidate@cli:~$ kubectl config use-context KSCS00201 Switched to context "KSCS00201".
  andidate@cli:~$ ssh kscs00201-master
 Warning: Permanently added '10.240.86.194' (ECDSA) to the list of known hosts.
 The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
 Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
 root@kscs00201-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
 root@kscs00201-master:~# systemctl daemon-reload
root@kscs00201-master:~# systemctl restart kubelet.service
  coot@kscs00201-master:~# systemctl enable kubelet.service
     Drop-In: /etc/systemd/system/kubelet.service.d

Loaded: loaded (/lib/systemd/system/kubelet.service; enabled; vendor preset: enabled)

Drop-In: /etc/systemd/system/kubelet.service.d

—10-kubeadm.conf
       Active: active (running) since Fri 2022-05-20 14:19:31 UTC; 29s ago
Docs: https://kubernetes.io/docs/home/
Main PID: 134205 (kubelet)
             Tasks: 16 (limit: 76200)
Memory: 39.5M
             CGroup: /system.slice/kubelet.service

-134205 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kub
May 20 14:19:35 kscs00201-master kubelet[134205]: 10520 14:19:35.420825 134205 reconciler.
May 20 14:19:35 kscs00201-master kubelet[134205]: 10520 14:19:35.420863 134205 reconciler.
May 20 14:19:35 kscs00201-master kubelet[134205]: 10520 14:19:35.420907 134205 reconciler.
May 20 14:19:36 kscs00201-master kubelet[134205]: 10520 14:19:35.420928 134205 reconciler.
May 20 14:19:37 kscs00201-master kubelet[134205]: 10520 14:19:36.572353 134205 request.go:
May 20 14:19:37 kscs00201-master kubelet[134205]: 10520 14:19:37.112347 134205 prober_mana
May 20 14:19:37 kscs00201-master kubelet[134205]: 10520 14:19:37.185076 134205 kubelet.go:
May 20 14:19:38 kscs00201-master kubelet[134205]: 10520 14:19:37.645798 134205 kubelet.go:
May 20 14:19:38 kscs00201-master kubelet[134205]: 10520 14:19:38.184062 134205 kubelet.go:
May 20 14:19:40 kscs00201-master kubelet[134205]: 10520 14:19:30.36042 134205 prober_mana
Tines 1-22/22 (END)
   et.service; enabled; vendor preset: enabled)
  ce.d
   5-20 14:19:31 UTC; 29s ago
   trap-kubeconfig=/etc/kubernetes/bootstrap-kubelet.conf --kubeconfig=/etc/kubernetes/kubelet
 5]: I0520 14:19:35.420825 134205 reconciler.go:221] "operationExecutor.VerifyControllerAtt>
5]: I0520 14:19:35.420863 134205 reconciler.go:221] "operationExecutor.VerifyControllerAtt>
5]: I0520 14:19:35.420907 134205 reconciler.go:221] "operationExecutor.VerifyControllerAtt>
5]: I0520 14:19:35.420928 134205 reconciler.go:157] "Reconciler: start to sync state"
5]: I0520 14:19:36.572353 134205 request.go:665] Waited for 1.049946364s due to client-sic>
5]: I0520 14:19:37.112347 134205 prober_manager.go:255] "Failed to trigger a manual run" p>
5]: I0520 14:19:37.645798 134205 kubelet.go:1693] "Trying to delete pod" pod="kube-system/>
5]: I0520 14:19:38.184062 134205 kubelet.go:1698] "Deleted mirror pod because it is outdat>
5]: I0520 14:19:40.036042 134205 prober_manager.go:255] "Failed to trigger a manual run" p>
  let.conf --kubeconfig=/etc/kubernetes/kubelet.conf --config=/var/lib/kubelet/config.vaml
 o:221] "operationExecutor.VerifyControllerAttachedVolume started for volume \"kube-proxy\"o:221] "operationExecutor.VerifyControllerAttachedVolume started for volume \"lib-modules\"
   o:221] "operationExecutor.VerifyControllerAttachedVolume started for volume \"flannel-cfg\"
o:221] "operationExecutor.VerifyControllerAttachedVolume started for volume \"flannel-cfg\">
o:157] "Reconciler: start to sync state"
65] Waited for 1.049946364s due to client-side throttling, not priority and fairness, reque-
er.go:255] "Failed to trigger a manual run" probe="Readiness"
711] "Failed creating a mirror pod for" err="pods \"kube-apiserver-kscs00201-master\" alrea>
693] "Trying to delete pod" pod="kube-system/kube-apiserver-kscs00201-master" podUID=bb91e1>
698] "Deleted mirror pod because it is outdated" pod="kube-system/kube-apiserver-kscs00201->
er.go:255] "Failed to trigger a manual run" probe="Readiness"
   coot@kscs00201-master:~# vim /var/lib/kubelet/config.yaml
```

```
apiVersion: kubelet.config.k8s.io/vlbetal
authentication:
    anonymous:
    enabled: false
    webhook:
        cacheTTL: 0s
        enabled: true
    x509:
        clientCAFile: /etc/kubernetes/pki/ca..vt
authorization:
    mode: Webhook[]
    webhook:
        cacheAuthorizedTTL: 0s
        cacheUnauthorizedTTL: 0s
cgroupDriver: systemd
clusterDNS:
```

```
root@kscs00201-master:~# vim /var/lib/kubelet/config.yaml
root@kscs00201-master:~# vim /var/lib/kubelet/config.yaml
root@kscs00201-master:~# vim /etc/kubernetes/manifests/etcd.yaml
root@kscs00201-master:~# systemctl daemon-reload
root@kscs00201-master:~# systemctl restart kubelet.service
root@kscs00201-master:~# systemctl status kubelet.service
```

```
kubelet.service - kubelet: The Kubernetes Node Agent
     Loaded: loaded (/lib/systemd/system/kubelet.service; enabled; vendor preset: enabled)
    Drop-In: /etc/systemd/system/kubelet.service.d
             └10-kubeadm.conf
     Active: active (running) since Fri 2022-05-20 14:22:29 UTC; 4s ago
      Docs: https://kubernetes.io/docs/home/
  Main PID: 135849 (kubelet)
     Tasks: 17 (limit: 76200)
     Memory: 38.0M
     CGroup: /system.slice/kubelet.service
             -135849 /usr/bin/kubelet --bootstrap-kubeconfig=/etc/kubernetes/bootstrap-kub
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330232 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: 10520 14:22:30.330259 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330304 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330354 135849 reconciler
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330378 135849 reconciler
May 20 14:22:30 kscs00201-master kubelet[135849]: 10520 14:22:30.330397 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: 10520 14:22:30.330415 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330433 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330452 135849 reconciler.
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330463 135849 reconciler.
lines 1-22/22 (END)
May 20 14:22:30 kscs00201-master kubelet[135849]: I0520 14:22:30.330463 135849 reconciler.
root@kscs00201-master:~#
root@kscs00201-master:~#
root@kscs00201-master:~#
root@kscs00201-master:~# exit
logout
Connection to 10.240.86.194 closed.
candidate@cli:~$
```

QUESTION 5

```
candidate@cli:~$ kubectl config use-context KSRS00602
Switched to context "KSRS00602".
candidate@cli:~$ ssh ksrs00602-master
Warning: Permanently added '10.240.86.243' (ECDSA) to the list of known hosts.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
root@ksrs00602-master:~# cat /etc/kubernetes/logpolicy/sample-policy.yaml
apiVersion: audit.k8s.io/v1
kind: Policy
# Don't generate audit events for all requests in RequestReceived stage.
omitStages:
 - "RequestReceived"
rules:
  # Don't log watch requests by the "system:kube-proxy" on endpoints or services
  - level: None
   users: ["system:kube-proxy"]
   verbs: ["watch"]
   resources:
   - group: "" # core API group
      resources: ["endpoints", "services"]
  # Don't log authenticated requests to certain non-resource URL paths.
  - level: None
   userGroups: ["system:authenticated"]
   nonResourceURLs:
    - "/api*" # Wildcard matching.
    - "/version"
  # Edit form here below
root@ksrs00602-master:~# vim /etc/kubernetes/logpolicy/sample-policy.yaml
```

```
- "/api"  # Wildcard matching.
- "/version"

# Edit form here below
- level: RequestResponse
resources:
- group: ""
resources: ["cronjobs"]
- level: Request
resources:
- group: ""  # core API group
resources: ["pods"]
namespaces: ["webapps"]

# Log configmap and secret changes in all other namespaces at the Metadata level.
- level: Metadata
resources:
- group: ""  # core API group
resources: ["secrets", "configmaps"]

# A catch-all rule to log all other requests at the Metadata level.
- level: Metadata
# Long-running requests like watches that fall under this rule will not
# generate an audit event in RequestReceived.
omitStages:
- "RequestReceived"
```

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```
- "/version"
  # Edit form here below
  - level: RequestResponse
   resources:
    - group: ""
     resources: ["cronjobs"]
  - level: Request
   resources:
    - group: "" # core API group
     resources: ["pods"]
     namespaces: ["webapps"]
# Log configmap and secret changes in all other namespaces at the Metadata level.
  level: Metadata
   resources:
    - group: "" # core API group
      resources: ["secrets", "configmaps"]
  # A catch-all rule to log all other requests at the Metadata level.
  - level: Metadata
    # Long-running requests like watches that fall under this rule will not
    # generate an audit event in RequestReceived.
   omitStages:
     - "RequestReceived"
root@ksrs00602-master:~# vim /etc/kubernetes/logpolicy/sample-policy.yaml
root@ksrs00602-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
```

```
component: kube-apiserver
 tier: control-plane
name: kube-apiserver
namespace: kube-system
      - kube-apiserver
     - --advertise-address=10.240.86.243
     - --allow-privileged=
     - --audit-policy-file=/etc/kubernetes/logpolicy/sample-policy.yaml
     - --audit-log-path=/var/log/kubernetes/kubernetes-logs.txt
      - --audit-log-maxbackup=1
     - --audit-log-maxage=30
     - --authorization-mode=Node, RBAC
      - --client-ca-file=/etc/kubernetes/pki/ca.crt
      - -- enable-admission-plugins=NodeRestriction
      - --enable-bootstrap-token-auth=
     - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt
```

```
# A catch-all rule to log all other requests at the Metadata level.
- level: Metadata
# Long-running requests like watches that fall under this rule will not
# generate an audit event in RequestReceived.
omitStages:
- "RequestReceived"
root@ksrs00602-master:~# vim /etc/kubernetes/logpolicy/sample-policy.yaml
root@ksrs00602-master:~# vim /etc/kubernetes/manifests/kube-apiserver.yaml
root@ksrs00602-master:~# systemctl daemon-reload
root@ksrs00602-master:~# systemctl restart kubelet.service
root@ksrs00602-master:~# systemctl enable kubelet
root@ksrs00602-master:~# exit
logout
Connection to 10.240.86.243 closed.
candidate@cli:~$
```

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You can switch the cluster/configuration context using the following command:

[desk@cli] \$ kubectl config use-context dev

Context:

A CIS Benchmark tool was run against the kubeadm created cluster and found multiple issues that must be addressed.

Task:

Fix all issues via configuration and restart the affected components to ensure the new settings take effect.

Fix all of the following violations that were found against the API server:

- 1.2.7 authorization-mode argument is not set to AlwaysAllow FAIL
- 1.2.8 authorization-mode argument includes Node FAIL
- 1.2.7 authorization-mode argument includes RBAC FAIL

Fix all of the following violations that were found against the Kubelet:

- 4.2.1 Ensure that the anonymous-auth argument is set to false FAIL
- 4.2.2 authorization-mode argument is not set to AlwaysAllow FAIL (Use Webhook autumn/authz where possible)

Fix all of the following violations that were found against etcd:

- 2.2 Ensure that the client-cert-auth argument is set to true
- A. See the explanation below
- B. PlaceHolder

Correct Answer: A

worker1 \$ vim /var/lib/kubelet/config.yaml uk.co.certification.simulator.questionpool.PList@132b77a0 worker1 \$ systemctl restart kubelet. # To reload kubelet configssh to master1master1 \$ vim /etc/kubernetes/manifests/kube-apiserver.yaml- -- authorizationmode=Node,RBACmaster1 \$ vim /etc/kubernetes/manifests/etcd.yaml- --client-cert-auth=true

Explanationssh to worker1worker1 \$ vim /var/lib/kubelet/config.yaml apiVersion: kubelet.config.k8s.io/v1beta1 authentication: anonymous: enabled: true #Delete this enabled: false #Replace by this webhook: cacheTTL: 0s enabled: true x509: clientCAFile: /etc/kubernetes/pki/ca.crt authorization: mode: AlwaysAllow #Delete this mode: Webhook #Replace by this webhook: cacheAuthorizedTTL: 0s cacheUnauthorizedTTL: 0s cgroupDriver: systemd clusterDNS:

-10.96.0.10 clusterDomain: cluster.local cpuManagerReconcilePeriod: 0s evictionPressureTransitionPeriod: 0s fileCheckFrequency: 0s healthzBindAddress: 127.0.0.1 healthzPort: 10248 httpCheckFrequency: 0s imageMinimumGCAge: 0s kind: KubeletConfiguration logging: {} nodeStatusReportFrequency: 0s nodeStatusUpdateFrequency: 0s resolvConf: /run/systemd/resolve/resolv.conf rotateCertificates: true runtimeRequestTimeout: 0s staticPodPath: /etc/kubernetes/manifests streamingConnectionIdleTimeout: 0s syncFrequency: 0s volumeStatsAggPeriod: 0s worker1 \$ systemctl restart kubelet. # To reload kubelet configssh to master1master1 \$ vim /etc/kubernetes/manifests/kube-apiserver.yaml



apiVersion vl kind Pod metadata annotations kubeadm.kubernetes.io/kube-apiserver.advertise-address.endpoint: 172.17.0.22:6443 component: kube-apiserver tier: control-plane name: kube-apiserver namespace: kube-system spec containers - command kube-apiserver ---advertise-address=172.17.0.22 --allow-privileged=true - --authorization-mode=Node,RBAC - --client-ca-file=/etc/kubernetes/pki/ca.crt - -- enable-admission-plugins=NodeRestriction - -- enable-bootstrap-token-auth=true - --etcd-cafile=/etc/kubernetes/pki/etcd/ca.crt

master1 \$ vim /etc/kubernetes/manifests/etcd.yaml

- --insecure-port=0

--etcd-servers=https://127.0.0.1:2379

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- --etcd-certfile=/etc/kubernetes/pki/apiserver-etcd-client.crt
- --etcd-keyfile=/etc/kubernetes/pki/apiserver-etcd-client.key

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