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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q52-Q57):

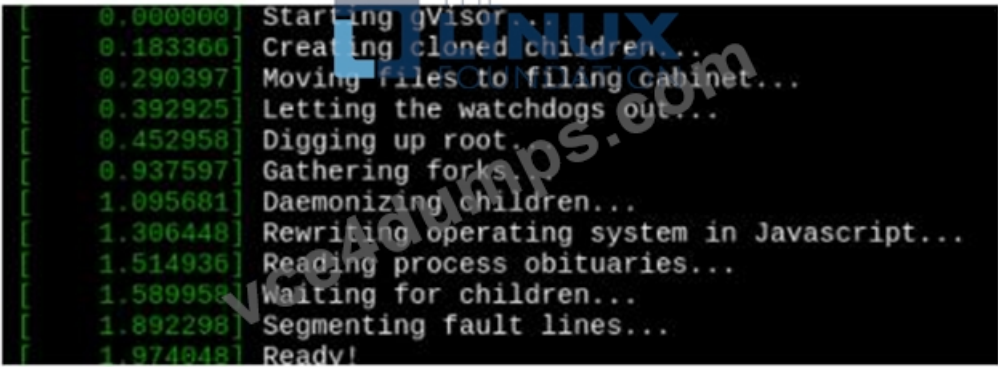
NEW QUESTION # 52

SIMULATION

Create a RuntimeClass named `untrusted` using the prepared runtime handler named `runc`.

Create a Pods of image `alpine:3.13.2` in the Namespace `default` to run on the `gVisor` runtime class.

Verify: Exec the pods and run the `dmesg`, you will see output like this:-



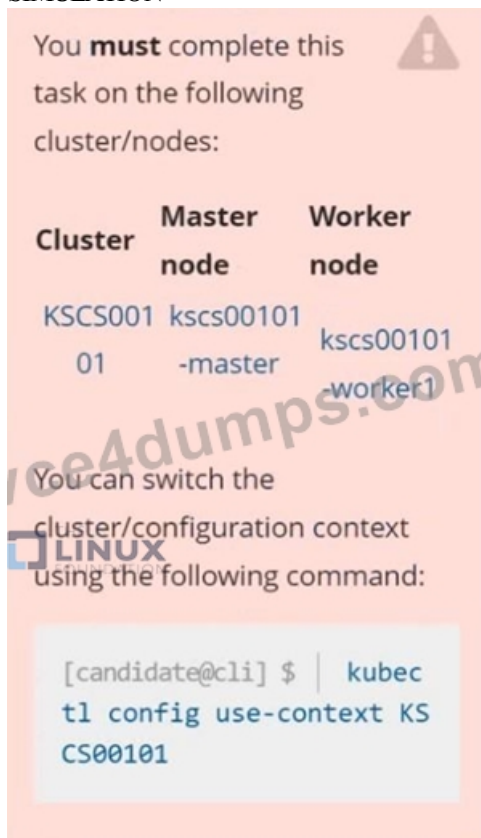
```
[ 0.000000] Starting gVisor...
[ 0.183366] Creating cloned children...
[ 0.290397] Moving files to filing cabinet...
[ 0.392925] Letting the watchdogs out...
[ 0.452958] Digging up root.
[ 0.937597] Gathering forks.
[ 1.095681] Daemonizing children...
[ 1.306448] Rewriting operating system in Javascript...
[ 1.514936] Reading process obituaries...
[ 1.589958] Waiting for children...
[ 1.892298] Segmenting fault lines...
[ 1.974048] Ready!
```

- A. Send us your feedback on it.

Answer: A

NEW QUESTION # 53

SIMULATION



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

Cluster	Master node	Worker node
KSCS001	kscs00101	kscs00101
01	-master	-worker1

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

```
[candidate@cli] $ | kubectl config use-context KSCS00101
```

Context

A default-deny NetworkPolicy avoids to accidentally expose a Pod in a namespace that doesn't have any other NetworkPolicy defined.

Task

Create a new default-deny NetworkPolicy named `defaultdeny` in the namespace `testing` for all traffic of type `Egress`.

The new NetworkPolicy must deny all Egress traffic in the namespace testing.
Apply the newly created default-deny NetworkPolicy to all Pods running in namespace testing.



Answer:

Explanation:

See the Explanation below

Explanation:

```
candidate@cli:~$ kubectl config use-context KSCS00101
Switched to context "KSCS00101".
candidate@cli:~$ cat /home/candidate/KSCS00101/network-policy.yaml
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: ""
  namespace: ""
spec:
  podSelector: {}
  policyTypes: []
candidate@cli:~$ vim /home/candidate/KSCS00101/network-policy.yaml
candidate@cli:~$
```

```
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: "defaultdeny"
  namespace: "testing"
spec:
  podSelector: {}
  policyTypes:
  - Egress
  egress:
  - {}
  podSelector: {}
  namespaceSelector:
    matchLabels:
      access: testingproject
```

```

candidate@cli:~$ vim /home/candidate/KSCS00101/network-policy.yaml
candidate@cli:~$ kubectl label ns testing access=testingproject
namespace/testing labeled
candidate@cli:~$ cat /home/candidate/KSCS00101/network-policy.yaml
---
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: "defaultdeny"
  namespace: "testing"
spec:
  podSelector: {}
  policyTypes:
  - Egress
  egress:
  - to:
    - podSelector: {}
      namespaceSelector:
        matchLabels:
          access: testingproject
candidate@cli:~$ kubectl create -f /home/candidate/KSCS00101/network-policy.yaml
networkpolicy.networking.k8s.io/defaultdeny created
candidate@cli:~$ kubectl -n testing describe networkpolicy
Name:         defaultdeny
Namespace:    testing
Created on:   2022-05-20 14:28:27 +0000 UTC
Labels:      <none>
Annotations: <none>
Spec:
  PodSelector:  <none> (Allowing the specific traffic to all pods in this namespace)
  Not affecting ingress traffic
  Allowing egress traffic:
    To Port: <any> (traffic allowed to all ports)
    To:
      NamespaceSelector: access=testingproject
      PodSelector: <none>
  Policy Types: Egress
candidate@cli:~$

```

NEW QUESTION # 54

You are managing a Kubernetes cluster that uses a private Docker registry for storing container images. You need to secure the registry by restricting access to authorized users and teams. Design a solution using role-based access control (RBAC) to enforce the following policies:

- Developers in the "dev" team should be allowed to push and pull images to the registry.
- Operations team members should only be allowed to pull images.
- Security team members should have read-only access to the registry's metadata

Answer:

Explanation:

Solution (Step by Step) :

1. Create a Service Account for each team

- Dev Team:

```

apiVersion: v1
kind: ServiceAccount
metadata:
  name: dev-sa
  namespace: default

```

- Operations Team:

```

apiVersion: v1
kind: ServiceAccount
metadata:
  name: ops-sa
  namespace: default

```

- Security Team:

```

apiVersion: v1
kind: ServiceAccount
metadata:
  name: security-sa
  namespace: default

```

- Apply these ServiceAccount YAML files to the cluster using 'kubectl apply -f sa.yaml'. 2. Create a Role for each team: - Dev Team Role:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: registry-push-pull
  namespace: default
rules:
- apiGroups: [""]
  resources: ["pods", "services", "secrets", "configmaps"]
  verbs: ["get", "list", "watch"]
- apiGroups: [""]
  resources: [""]
  verbs: [""]
- apiGroups: [""]
  resources: [""]
  verbs: ["delete"]

```

- Operations Team Role:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: registry-pull
  namespace: default
rules:
- apiGroups: [""]
  resources: [""]
  verbs: ["get", "list", "watch"]
- apiGroups: [""]
  resources: ["pods", "services", "secrets", "configmaps"]
  verbs: ["get", "list", "watch"]

```

- Security Team Role:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: registry-read-only
  namespace: default
rules:
- apiGroups: [""]
  resources: [""]
  verbs: ["get", "list", "watch"]

```

- Apply these Role YAML files to the cluster using 'kubectl apply -f roles.yaml'. 3. Bind the Roles to Service Accounts: - Dev Team:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: registry-push-pull-binding
  namespace: default
apiGroup: rbac.authorization.k8s.io
kind: Role
name: registry-push-pull
subjects:
- kind: ServiceAccount
  name: dev-sa
  namespace: default

```

- Operations Team:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: registry-pull-binding
  namespace: default
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: registry-pull
subjects:
- kind: ServiceAccount
  name: ops-sa
  namespace: default

```

- security Team:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: RoleBinding
metadata:
  name: registry-read-only-binding
  namespace: default
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: Role
  name: registry-read-only
subjects:
- kind: ServiceAccount
  name: security-sa
  namespace: default

```

- Apply these RoleBinding YAML files to the cluster using 'kubectl apply -f rolebindings.yaml'. 4. Configure the Registry: - Ensure that your private Docker registry is configured to authenticate users and teams based on the specified RBAC rules. This may involve using a registry-specific Plugin or configuration file. 5. Test the Setup: - Use the created Service Accounts to access the registry. - Verify that each team has the expected permissions and limitations. - For example, try pushing an image using the 'dev-sa' account and verify it is successful. Then, attempt to push an image using the Sops-sa account and verify it is unsuccessful due to the missing permission.

NEW QUESTION # 55

Context

Your organization's security policy includes:

ServiceAccounts must not automount API credentials

ServiceAccount names must end in "-sa"

The Pod specified in the manifest file /home/candidate/KSCH00301/pod-manifest.yaml fails to schedule because of an incorrectly specified ServiceAccount.

Complete the following tasks:

Task

1. Create a new ServiceAccount named frontend-sa in the existing namespace qa. Ensure the ServiceAccount does not automount API credentials.
2. Using the manifest file at /home/candidate/KSCH00301/pod-manifest.yaml, create the Pod.

3. Finally, clean up any unused ServiceAccounts in namespace qa.

Answer:

Explanation:

```
Switched to context "KSCH00301".
candidate@cli:~$ kubectl get sa -n qa
NAME          SECRETS  AGE
default       1        5h46m
podrunner     1        5h46m
candidate@cli:~$ kubectl get deployment -n qa
No resources found in qa namespace.
candidate@cli:~$ kubectl get pod -n qa
No resources found in qa namespace.
candidate@cli:~$ kubectl create sa frontend-sa -n qa
serviceaccount/frontend-sa created
candidate@cli:~$ kubectl get sa -n qa
NAME          SECRETS  AGE
default       1        5h47m
frontend-sa   1        4s
podrunner     1        5h47m
candidate@cli:~$ cat /home/candidate/KSCH00301/pod-manifest.yaml
apiVersion: v1
kind: Pod
metadata:
  name: "frontend"
  namespace: "qa"
spec:
  serviceAccountName: "frontend-sa"
  containers:
  - name: "frontend"
    image: nginx
candidate@cli:~$ vim /home/candidate/KSCH00301/pod-manifest.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: "frontend"
  namespace: "qa"
spec:
  serviceAccountName: "frontend-sa"
  automountServiceAccountToken: false
  containers:
  - name: "frontend"
    image: nginx
```

```

candidate@cli:~$ vim /home/candidate/KSCH00301/pod-manifest.yaml
candidate@cli:~$ cat /home/candidate/KSCH00301/pod-manifest.yaml
apiVersion: v1
kind: Pod
metadata:
  name: "frontend"
  namespace: "qa"
spec:
  serviceAccountName: "frontend-sa"
  automountServiceAccountToken: false
  containers:
  - name: "frontend"
    image: nginx
candidate@cli:~$ kubectl create -f /home/candidate/KSCH00301/pod-manifest.yaml
pod/frontend created
candidate@cli:~$ kubectl get pods -n qa
NAME        READY   STATUS    RESTARTS   AGE
frontend    1/1     Running   0           6s
candidate@cli:~$ kubectl get sa -n qa
NAME          SECRETS   AGE
default       1         5h49m
frontend-sa   1         105s
podrunner     1         5h49m
candidate@cli:~$ kubectl delete sa/podrunner -n qa
serviceaccount "podrunner" deleted
candidate@cli:~$ █

```

NEW QUESTION # 56

You have a Kubernetes cluster with a Deployment named 'web-app' that runs multiple replicas of a web application. You need to create a network policy that allows only traffic from pods in the same namespace to access the web application's API endpoint on port 8080.

Answer:

Explanation:

Solution (Step by Step) :

1. Create a NetworkPolicy:

- Define a NetworkPolicy resource with a 'podSelector' that matches the 'web-app' Deployment.
- Create an 'ingress' rule that allows traffic from pods within the same namespace.
- Use the 'from' field to specify the namespace and set the 'namespaceSelector' to 'matchLabels: {}' to include all pods in the namespace.
- Ensure that the port 8080 is included in the 'ports' field.

```

apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
  name: web-app-namespace-policy
spec:
  podSelector:
    matchLabels:
      app: web-app
  ingress:
  - from:
    - namespaceSelector:
        matchLabels: {}
    ports:
    - protocol: TCP
      port: 8080

```

2. Apply the NetworkPolicy: - Apply the YAML file using 'kubectl apply -f web-app-namespace-policy.yaml' 3. Verify the NetworkPolicy: - Use 'kubectl get networkpolicies' to list the available network policies. - Use 'kubectl describe networkpolicy web-app-namespace-policy' to view the details of the applied policy. 4. Test the NetworkPolicy: - Deploy a pod in the same namespace as the 'web-app' Deployment and attempt to access the API endpoint Verify that the connection is successful. - Deploy a pod in a different namespace and attempt to access the API endpoint Verify that the connection is denied.

NEW QUESTION # 57

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