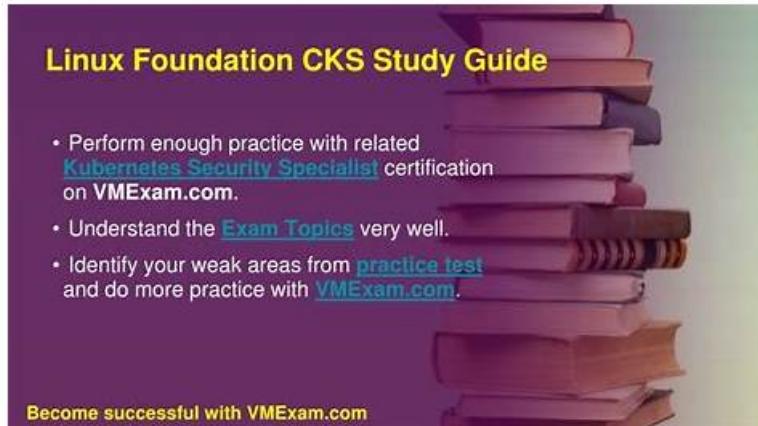


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Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q42-Q47):

NEW QUESTION # 42

You are deploying a Kubernetes cluster on AWS using EKS. verify the authenticity and integrity of the AWS CLI and EKS platform binaries before interacting with your cluster:

Answer:

Explanation:

Solution (Step by Step):

- 1). Install the AWS CLI: Download and install the AWS CLI from the official website (<https://aws.amazon.com/cli/>) (<https://www.google.com/url?sa=E&source=gmail&q=https://aws.amazon.com/cli/>).
2. Verify the AWS CLI installation: Use the 'aws -version' command to check the version and ensure it is installed correctly.
3. Configure AWS credentials: Configure your AWS credentials using the 'aws configure' command.
4. Verify the EKS API server endpoint: Use the 'aws eks describe-cluster' command to retrieve the API server endpoint for your EKS cluster. Verify that the endpoint matches the expected format and domain name for your region.

```

bash
aws eks describe-cluster -name my-cluster -query "cluster.endpoint" -output text
5. Verify the authenticity of the EKS API server certificate: Retrieve the EKS API server certificate using the 'openssl s_client' command and verify the certificate chain and issuer.
bash
openssl s_client -connect :443 /dev/null | openssl x509 -in - -text -noout
6. (Optional) Use the AWS CLI to further validate EKS components: You can use the AWS CLI to check the status and configuration of other EKS components, such as the control plane, worker nodes, and networking.

```

NEW QUESTION # 43

You need to prevent unauthorized access to your Kubernetes cluster. You are implementing a policy to restrict access to the Kubernetes API server. You want to restrict access to the API server to only specific IP addresses. How can you implement this restriction?

Answer:

Explanation:

Solution (Step by Step) :

1. Configure API Server Admission Control:

- Edit the API server configuration file `/etc/kubernetes/manifests/kube-apiserver.yaml` to enable 'AlwaysAdmit' admission control.

2. Create a Network Policy:

- Define a NetworkPolicy that allows access from the specified IP addresses.

- Apply the NetworkPolicy to the namespace containing the Kubernetes API server.

3. Example Implementation:

-

4. Restart the API Server: - Restart the Kubernetes API server to apply the new configuration. 5. Note: - It is crucial to only allow access from trusted IP addresses to prevent potential security breaches.

NEW QUESTION # 44

Use the kubesec docker images to scan the given YAML manifest, edit and apply the advised changes, and pass with a score of 4 points.

`kubesec-test.yaml`

`apiVersion: v1`

`kind: Pod`

`metadata:`

`name: kubesec-demo`

`spec:`

`containers:`

`- name: kubesec-demo`

`image: gcr.io/google-samples/node-hello:1.0`

`securityContext:`

`readOnlyRootFilesystem: true`

- A. Hint: `docker run -i kubesec/kubesec:512c5e0 scan /dev/stdin < kubesec-test.yaml`

Answer: A

NEW QUESTION # 45

SIMULATION

You must complete this task on the following cluster/nodes: Cluster: immutable-cluster Master node: master1 Worker node: worker1 You can switch the cluster/configuration context using the following command:

`[desk@cli] $ kubectl config use-context immutable-cluster`

Context: It is best practice to design containers to be stateless and immutable.

Task:

Inspect Pods running in namespace prod and delete any Pod that is either not stateless or not immutable.

Use the following strict interpretation of stateless and immutable:

1. Pods being able to store data inside containers must be treated as not stateless.

Note: You don't have to worry whether data is actually stored inside containers or not already.

2. Pods being configured to be privileged in any way must be treated as potentially not stateless or not immutable.

Answer:

Explanation:

See the Explanation belowExplanation:

Reference:

<https://cloud.google.com/architecture/best-practices-for-operating-containers>

NEW QUESTION # 46

You are deploying a microservice application on Kubernetes, and you are concerned about the potential for one microservice to compromise the security of other microservices in the cluster. How can you use Kubernetes features to implement isolation between your microservices and minimize this risk?

Answer:

Explanation:

Solution (Step by Step) :

1. Namespaces: Use Kubernetes namespaces to logically separate your microservices. Each namespace can have its own set of resources, security policies, and network configurations.

- Example: You could create namespaces for "user-service", "order-service", "payment-service", etc.

2. Network Policies: Define network policies to control communication between pods within and across namespaces.

- Example:

3. Pod Security Policies (PSPs): Use PSPs to restrict the capabilities and resources that pods can use. - Example:

4. Service Accounts: Create separate service accounts for each microservice and restrict their permissions. - Example: Use RBAC (Role-Based Access Control) to define roles and bindings for each service account 5. Resource Quotas: Limit the resources (CPU, memory, etc.) that each microservice can consume. This helps prevent one microservice from overwhelming the cluster and impacting others. 6. Security Context: Use the 'securitycontext' field in pod definitions to apply security restrictions to individual pods.

- Example:

7. Pod Disruption Budgets (PDB): Set up PDBs to ensure that a minimum number of pods remain running for each microservice, even during upgrades or disruptions. 8. Least Privilege: Follow the principle of least privilege, only granting each microservice the minimum access it needs to perform its function.

NEW QUESTION # 47

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