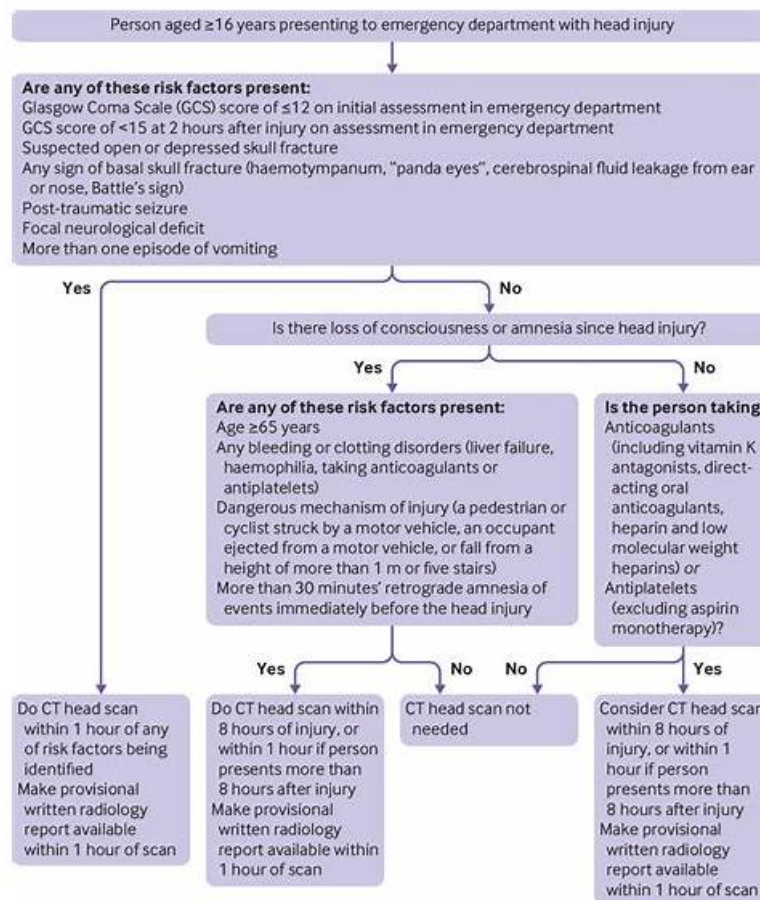


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effectively. With the growing adoption of Kubernetes, the demand for CKS Certified professionals is only going to increase in the coming years.

Linux Foundation Certified Kubernetes Security Specialist (CKS) Sample Questions (Q12-Q17):

NEW QUESTION # 12

Given an existing Pod named `nginx-pod` running in the namespace `test-system`, fetch the service-account-name used and put the content in `/candidate/KSC00124.txt`. Create a new Role named `dev-test-role` in the namespace `test-system`, which can perform update operations, on resources of type namespaces.

- **A. Create a new RoleBinding named `dev-test-role-binding`, which binds the newly created Role to the Pod's ServiceAccount (found in the Nginx pod running in namespace `test-system`).**

Answer: A

NEW QUESTION # 13

You are managing a Kubernetes cluster where you have a critical microservice called "order-processing" running in a Deployment. The service interacts with a sensitive database containing customer order information. You are concerned about the potential risk of attackers gaining access to the database credentials. How would you implement a strategy using AppArmor profiles to mitigate this risk?

Answer:

Explanation:

Solution (Step by Step) :

1. Create an AppArmor Profile: Create a profile that specifically restricts the "order-processing" containers access to the database credentials. You

can do this by using the 'apparmor' command-line utility.

```
bash
```

```
# Create an AppArmor profile for the order-processing container
```

```
sudo aa-genprof /path/to/order-processing/container
```

- The 'aa-genprof' command will generate a basic profile based on the container's file system.

- You can then edit the profile to restrict access to specific files or directories.

2. Restrict Access to Credentials: Edit the generated profile and add rules to deny access to the database credentials file. For example, if the

database credentials are stored in a file named 'db_credentials.txt' at '/etc/secrets', you would add the following line to the profile:

```
lxc/secrets/db_credentials.txt r,
```

- This line restricts the container from reading (r) the 'db_credentials.txt' file.

- You can also use more specific path restrictions if needed.

3. Apply the AppArmor Profile:

- Load the profile:

```
bash
```

```
sudo apparmor_parser -r
```

- Stop or restart the container:

```
bash
```

```
kubectl rollout restart deployment/order-processing
```

- This will ensure the new AppArmor profile is loaded and applied to the "order-processing" container.

4. Test and Verify

- Test the application: Make sure the "order-processing" service can still access the database and perform its operations.

- Check for errors: Monitor the logs of the "order-processing" container for any errors related to AppArmor. If the container can't access the credentials file, you will see errors in the logs.

5. Monitor and Update:

- Monitor the container's AppArmor logs to identify any potential vulnerabilities or inconsistencies.

- Update the profile as needed to adjust permissions and maintain security.

NEW QUESTION # 14

Imagine a scenario where you have multiple Kubernetes clusters. You want to establish a secure supply chain by allowing only

images from a centralized image registry to be deployed across all clusters. Explain how you can achieve this.

Answer:

Explanation:

Solution (Step by Step) :

1. Centralized Image Registry:

- Set up a centralized image registry that will serve as the single source of truth for all container images-
- Some popular choices include:
- Docker Hub: A public registry with a free tier for personal and open-source projects.
- Harbor: An open-source registry with features like vulnerability scanning and access control.
- Google Container Registry (GCR): A registry integrated with Google Cloud Platform, offering features like image signing and storage management.

2. Configure Cluster Access:

- Ensure all your Kubernetes clusters have access to this centralized image registry.
- For private registries, configure authentication and authorization mechanisms to control which clusters have access to which images.

3. Implement Image Pull Policies:

- On each cluster, set the 'imagePullPolicy' to 'Always' for deployments using images from the centralized registry. This ensures that every pod pulls

the image directly from the registry, avoiding reliance on cached images.

- Example (for a deployment using 'nginx:latest' from a private registry):

4. Enable Image Signing (Optional): - Implement image signing to further enhance security - Sign images in the centralized registry using a trusted key - Configure Kubernetes clusters to only allow images signed with the trusted key to be deployed. 5. Monitoring and Auditing: - Implement robust monitoring and auditing to track image pulls, deployments, and any potential vulnerabilities. 6. Consider a Software Supply Chain Management (SSCM) Tool: - Use a dedicated SSCM tool to manage the entire image lifecycle, including vulnerability scanning, policy enforcement, and access control. Tools like JFrog Xray or Aqua Security can help automate this process.

NEW QUESTION # 15

You have a Kubernetes cluster with multiple namespaces, each representing a different department. You need to ensure that resources in one namespace cannot access resources in another namespace, even if they are running as the same user. How would you implement this isolation policy and what are the potential risks if this isolation is not implemented effectively?

Answer:

Explanation:

Solution (Step by Step) :

1. Use Network Policies: Define network policies at the namespace level to control communication between pods. Each namespace will have its own set of policies.

- Example Network Policy (Namespace A):

2. Enable Pod Security Policies (PSPs) - PSPs allow you to define security constraints for pods running in your cluster. You can restrict the use of specific resources, capabilities, and network access. - Example PSP:

3. Isolate Resources: Ensure resources are not shared between namespaces, such as storage (persistent volumes) and configuration (config maps, secrets). - Example: Create separate persistent volumes and claims for each namespace. 4. Monitoring and Auditing: Implement monitoring and auditing tools to detect any unauthorized access attempts or violations of your isolation policy. 5. Potential Risks of Insufficient Isolation: - Data Breaches: Data in one namespace could be compromised by applications in another namespace, leading to a data leak. - Denial of Service: Applications in one namespace could consume all available resources, impacting the performance of applications in other namespaces. - Privilege Escalation: An application in one namespace could gain elevated privileges and access resources in other namespaces.

NEW QUESTION # 16

You have a Kubernetes cluster running with the default RBAC configuration. You need to create a role that allows a user to access only specific namespaces and perform certain actions within those namespaces. For example, you want to allow the user to view pods, deployments, and services in the 'development' namespace, but only allow them to create and delete pods in the 'production' namespace.

Answer:

Solution (Step by Step) :

1. Create a Role for 'development' namespace:
□
2. Create a Role for 'production' namespace:
□
3. Create a ROleBinding for the 'development' namespace:
□
4. Create a RoleBinding for the 'production' namespace:
□
5. Apply the YAML files using 'kubectl apply -f 6. Verify the permissions: Try to perform the allowed actions in the respective namespaces. You should be able to successfully perform the actions defined in the roles.

NEW QUESTION # 17

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