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## Linux Foundation Kubernetes and Cloud Native Security Associate Sample Questions (Q17-Q22):

**NEW QUESTION # 17**
You are responsible for securing thekubeletcomponent in a Kubernetes cluster.
Which of the following statements about kubelet security is correct?

- A. Kubelet does not have any built-in security features.
- B. Kubelet runs as a privileged container by default.
- C. Kubelet supports TLS authentication and encryption for secure communication with the API server.
- D. Kubelet requires root access to interact with the host system.

**Answer: C**

Explanation:
* Thekubeletis the primary agent that runs on each node in a Kubernetes cluster and communicates with the control plane.

* Kubeletsupports TLS (Transport Layer Security)for both authentication and encryption when interacting with the API server. This is a core security feature that ensures secure node-to-control-plane communication.
* Incorrect options:
* (A) Kubelet does not run as a privileged container by default; it runs as a system process (typically systemd-managed) on the host.
* (B) Kubelet does include built-in security features such asTLS authentication, authorization modes, and read-only vs secured ports.
* (D) While kubelet interacts with the host system (e.g., cgroups, container runtimes), it does not inherently require root access for communication security; RBAC and TLS handle authentication.
References:
Kubernetes Documentation - Kubelet authentication/authorization
CNCF Security Whitepaper - Cluster Component Security (discusses TLS and mutual authentication between kubelet and API server).

**NEW QUESTION # 18**
When using a cloud provider's managed Kubernetes service, who is responsible for maintaining the etcd cluster?

- A. Namespace administrator
- B. Application developer
- C. Kubernetes administrator
- D. Cloud provider

**Answer: D**

Explanation:
* Inmanaged Kubernetes services(EKS, GKE, AKS), the control plane is operated by thecloud provider
.
* This includesetcd, API server, controller manager, scheduler.
* Users manageworker nodes(in some models) and workloads, but not the control plane.
* Exact extract (GKE Docs):
* "The control plane, including the API server and etcd database, is managed and maintained by Google."
* Similarly forEKSandAKS, etcd is fully managed by the provider.
References:
GKE Architecture: https://cloud.google.com/kubernetes-engine/docs/concepts/cluster-architecture EKS Architecture: https://docs.aws.amazon.com/eks/latest/userguide/eks-architecture.html AKS Docs: https://learn.microsoft.com/en-us/azure/aks/concepts-clusters-workloads

**NEW QUESTION # 19**
In order to reduce the attack surface of the Scheduler, which default parameter should be set to false?

- A. --profiling
- B. --bind-address
- C. --scheduler-name
- D. --secure-kubeconfig

**Answer: A**

Explanation:
* Thekube-schedulerexposes aprofiling/debugging endpointwhen --profiling=true (default).
* This can unnecessarily increase the attack surface.
* Best practice: set --profiling=false in production.
* Exact extract (Kubernetes Docs - kube-scheduler flags):
* "--profiling (default true): Enable profiling via web interface host:port/debug/pprof/."
* Why others are wrong:
* --scheduler-name: just identifies the scheduler, not a security risk.
* --secure-kubeconfig: not a valid flag.
* --bind-address: changing it limits exposure but is not the default risk parameter for profiling.
References:
Kubernetes Docs - kube-scheduler options: https://kubernetes.io/docs/reference/command-line-tools- reference/kube-scheduler/

**NEW QUESTION # 20**
What is the purpose of the Supplier Assessments and Reviews control in the NIST 800-53 Rev. 5 set of controls for Supply Chain Risk Management?

- A. To identify potential suppliers for the organization.
- B. To evaluate and monitor existing suppliers for adherence to security requirements.
- C. To conduct regular audits of suppliers' financial performance.
- D. To establish contractual agreements with suppliers.

**Answer: B**

Explanation:
* In NIST SP 800-53 Rev. 5,SR-6: Supplier Assessments and Reviewsrequires evaluating and monitoring suppliers' security and risk practices.
* Exact extract (NIST SP 800-53 Rev. 5, SR-6):
* "The organization assesses and monitors suppliers to ensure they are meeting the security requirements specified in contracts and agreements."
* This is aboutongoing monitoringof supplier adherence, not financial audits, not contract creation, and not supplier discovery.
References:
NIST SP 800-53 Rev. 5, Control SR-6 (Supplier Assessments and Reviews): https://csrc.nist.gov/publications /detail/sp/800-53/rev-5/final

**NEW QUESTION # 21**
Which label should be added to the Namespace to block any privileged Pods from being created in that Namespace?

- A. pod-security.kubernetes.io/enforce: baseline
- B. privileged: true
- C. pod.security.kubernetes.io/privileged: false
- D. privileged: false

**Answer: A**

Explanation:
* KubernetesPod Security Admission (PSA)enforcesPod Security Standardsby applying labels on Namespaces.
* Exact extract (Kubernetes Docs - Pod Security Admission):
* "You can label a namespace with pod-security.kubernetes.io/enforce: baseline to enforce the Baseline policy."
* Thebaselineprofile explicitly disallowsprivileged podsand other unsafe features.
* Why others are wrong:
* A & D: These labels do not exist in Kubernetes.
* B: Setting privileged: true would allow privileged pods, not block them.
References:
Kubernetes Docs - Pod Security Admission: https://kubernetes.io/docs/concepts/security/pod-security- admission/ Kubernetes Docs - Pod Security Standards: https://kubernetes.io/docs/concepts/security/pod-security- standards/

**NEW QUESTION # 22**
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