

Linux Foundation KCSA試験の準備方法 | 100%合格率のKCSA日本語受験教科書試験 | 効率的なLinux Foundation Kubernetes and Cloud Native Security Associate赤本合格率



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>> KCSA日本語受験教科書 <<

試験の準備方法-実際的なKCSA日本語受験教科書試験-実用的なKCSA赤本合格率

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Linux Foundation KCSA 認定試験の出題範囲:

トピック	出題範囲
トピック 1	<ul style="list-style-type: none">Overview of Cloud Native Security: This section of the exam measures the skills of a Cloud Security Architect and covers the foundational security principles of cloud-native environments. It includes an understanding of the 4Cs security model, the shared responsibility model for cloud infrastructure, common security controls and compliance frameworks, and techniques for isolating resources and securing artifacts like container images and application code.

トピック 2	<ul style="list-style-type: none"> • Kubernetes Security Fundamentals: This section of the exam measures the skills of a Kubernetes Administrator and covers the primary security mechanisms within Kubernetes. This includes implementing pod security standards and admissions, configuring robust authentication and authorization systems like RBAC, managing secrets properly, and using network policies and audit logging to enforce isolation and monitor cluster activity.
トピック 3	<ul style="list-style-type: none"> • Platform Security: This section of the exam measures the skills of a Cloud Security Architect and encompasses broader platform-wide security concerns. This includes securing the software supply chain from image development to deployment, implementing observability and service meshes, managing Public Key Infrastructure (PKI), controlling network connectivity, and using admission controllers to enforce security policies.
トピック 4	<ul style="list-style-type: none"> • Kubernetes Threat Model: This section of the exam measures the skills of a Cloud Security Architect and involves identifying and mitigating potential threats to a Kubernetes cluster. It requires understanding common attack vectors like privilege escalation, denial of service, malicious code execution, and network-based attacks, as well as strategies to protect sensitive data and prevent an attacker from gaining persistence within the environment.
トピック 5	<ul style="list-style-type: none"> • Kubernetes Cluster Component Security: This section of the exam measures the skills of a Kubernetes Administrator and focuses on securing the core components that make up a Kubernetes cluster. It encompasses the security configuration and potential vulnerabilities of essential parts such as the API server, etcd, kubelet, container runtime, and networking elements, ensuring each component is hardened against attacks.

Linux Foundation Kubernetes and Cloud Native Security Associate 認定 KCSA 試験問題 (Q40-Q45):

質問 # 40

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`

正解: A

解説:

* Kubernetes Pod Security Admission (PSA) enforces Pod Security Standards by 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."

* The baseline profile explicitly disallows privileged pods and 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/>

質問 # 41

Is it possible to restrict permissions so that a controller can only change the image of a deployment (without changing anything else about it, e.g., environment variables, commands, replicas, secrets)?

- A. **Not with RBAC, but it is possible with an admission webhook.**
- B. Yes, with a 'managed fields' annotation.
- C. No, because granting access to the `spec.containers.image` field always grants access to the rest of the spec object.
- D. Yes, by granting permission to the `/image` subresource.

正解: A

解説:

- * RBAC in Kubernetes is coarse-grained: it controls verbs (get, update, patch, delete) on resources (e.g., deployments), but not individual fields within a resource.
- * There is no /image subresource for deployments (there is one for pods but only for ephemeral containers).
- * Therefore, RBAC cannot restrict changes only to the image field.
- * Admission Webhooks (mutating/validating) can enforce fine-grained policies (e.g., deny updates that change anything other than spec.containers[*].image).
- * Exact extract (Kubernetes Docs - Admission Webhooks):
- * "Admission webhooks can be used to enforce custom policies on objects being admitted." References: Kubernetes Docs - RBAC: <https://kubernetes.io/docs/reference/access-authn-authz/rbac/> Kubernetes Docs - Admission Webhooks: <https://kubernetes.io/docs/reference/access-authn-authz/extensible-admission-controllers/>

質問 # 42

What is the difference between gVisor and Firecracker?

- A. gVisor and Firecracker are two names for the same technology, which provides isolation and security for containers.
- B. gVisor is a user-space kernel that provides isolation and security for containers. At the same time, Firecracker is a lightweight virtualization technology for creating and managing secure, multi-tenant container and function-as-a-service (FaaS) workloads.
- C. gVisor is a lightweight virtualization technology for creating and managing secure, multi-tenant container and function-as-a-service (FaaS) workloads. At the same time, Firecracker is a user-space kernel that provides isolation and security for containers.
- D. gVisor and Firecracker are both container runtimes that can be used interchangeably.

正解: B

解説:

- * gVisor:
 - * Google-developed, implemented as a user-space kernel that intercepts and emulates syscalls made by containers.
 - * Provides strong isolation without requiring a full VM.
 - * Official docs: "gVisor is a user-space kernel, written in Go, that implements a substantial portion of the Linux system call interface."
 - * Source: <https://gvisor.dev/docs/>
 - * Firecracker:
 - * AWS-developed, lightweight virtualization technology built on KVM, used in AWS Lambda and Fargate.
 - * Optimized for running secure, multi-tenant microVMs (MicroVMs) for containers and FaaS.
 - * Official docs: "Firecracker is an open-source virtualization technology that is purpose-built for creating and managing secure, multi-tenant container and function-based services."
 - * Source: <https://firecracker-microvm.github.io/>
 - * Key difference: gVisor # syscall interception in userspace kernel (container isolation). Firecracker # lightweight virtualization with microVMs (multi-tenant security).
 - * Therefore, option B is correct.
- References:
gVisor Docs: <https://gvisor.dev/docs/>
Firecracker Docs: <https://firecracker-microvm.github.io/>

質問 # 43

Which of the following snippets from a RoleBinding correctly associates user bob with Role pod-reader ?

- A. subjects:
 - kind: User
 - name: bob
 - apiGroup: rbac.authorization.k8s.io
 - roleRef:
 - kind: ClusterRole
 - name: pod-reader
 - apiGroup: rbac.authorization.k8s.io

- B. subjects:
 - kind: Group
 - name: bob
 - apiGroup: rbac.authorization.k8s.io
 - roleRef:
 - kind: Role
 - name: pod-reader
 - apiGroup: rbac.authorization.k8s.io
- C. subjects:
 - kind: User
 - name: pod-reader
 - apiGroup: rbac.authorization.k8s.io
 - roleRef:
 - kind: Role
 - name: bob
 - apiGroup: rbac.authorization.k8s.io
- D. subjects:
 - kind: User
 - name: bob
 - apiGroup: rbac.authorization.k8s.io
 - roleRef:
 - kind: Role
 - name: pod-reader
 - apiGroup: rbac.authorization.k8s.io

正解: D

解説:

Kubernetes RBAC uses RoleBinding to grant permissions defined in a Role to a subject (user, group, or service account) within a namespace. The official example shows binding user jane to Role pod-reader:

"A RoleBinding grants the permissions defined in a Role to a user or set of users...." Example:

subjects:

- kind: User

name: jane

apiGroup: rbac.authorization.k8s.io

roleRef:

kind: Role

name: pod-reader

apiGroup: rbac.authorization.k8s.io

- Kubernetes docs, RBAC: RoleBinding and ClusterRoleBinding

Option B matches this pattern exactly, with name: bob as the User subject and roleRef pointing to the Role named pod-reader.

* Aswaps the names (subject is pod-reader, role is bob) # incorrect.

* References a ClusterRole, not a Role (the question asks for Role).

* Uses kind: Group even though we need the User bob.

References:

Kubernetes Docs - Using RBAC Authorization # RoleBinding and ClusterRoleBinding: <https://kubernetes.io/docs/reference/access-authn-authz/rbac/#rolebinding-and-clusterrolebinding>

質問 # 44

In a cluster that contains Nodes with multiple container runtimes installed, how can a Pod be configured to be created on a specific runtime?

- A. By specifying the container runtime in the Pod's YAML file.
- B. By setting the container runtime as an environment variable in the Pod.
- C. By modifying the Docker daemon configuration.
- D. By using a command-line flag when creating the Pod.

正解: A

解説:

- * Kubernetes supports multiple container runtimes on a node via the `RuntimeClass` resource.
- * To select a runtime, you specify the `runtimeClassName` field in the Pod's YAML manifest. Example:
- * `apiVersion: v1`
- * `kind: Pod`
- * `metadata:`
- * `name: example`
- * `spec:`
- * `runtimeClassName: gvisor`
- * `containers:`
- * `- name: app`
- * `image: nginx`
- * Incorrect options:
- * (A) You cannot specify container runtime through a `kubectl` command-line flag.
- * (B) Modifying the Docker daemon config does not direct Kubernetes Pods to a runtime.
- * (C) Environment variables inside a Pod spec do not control container runtimes.

References:

Kubernetes Documentation - `RuntimeClass`

CNCF Security Whitepaper - Workload isolation via different runtimes (e.g., `gVisor`, `Kata`) for enhanced security.

質問 # 45

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