## **CKA Mock Exam**

Date: 4 June 2024

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##### **Question 1:**

* Create a replicaset (name:mychip, image:busybox, Replicaset: 4).
* There is already a pod running in cluster.
* Make sure that the total count of pods running in the cluster not more than 4.
* Note: Create scenario

**Steps:**

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apiVersion: apps/v1

kind: ReplicaSet

metadata:

  name: mychip

  labels:

    app-type: replicaset

spec:

  # modify replicas according to your case

  replicas: 1

  selector:

    matchLabels:

      app-type: replicaset

  template:

    metadata:

      labels:

        app-type: replicaset

    spec:

      containers:

      - name: busybox-container

        image: busybox

        command: ['sh', '-c', 'sleep 4800']

status: {}

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**Ref:**

* <https://kubernetes.io/docs/concepts/workloads/controllers/replicaset/#example>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 2:**

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**Steps:**

apiVersion: networking.k8s.io/v1

kind: NetworkPolicy

metadata:

  name: double

  namespace: default

spec:

#  podSelector:

#    namespace: default

  policyTypes:

  - Ingress

  - Egress

  ingress:

  - from:

    - ipBlock:

        cidr: 172.17.0.0/16

        except:

        - 172.17.1.0/24

    - namespaceSelector:

        matchLabels:

          project: myproject

    - podSelector:

        matchLabels:

          role: frontend

    ports:

    - protocol: TCP

      port: 6379

  egress:

  - to:

#    - ipBlock:

#        cidr: 10.0.0.0/24

    ports:

    - protocol: TCP

      port: 5978

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**Ref:**

* <https://kubernetes.io/docs/concepts/services-networking/network-policies/#networkpolicy-resource>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 3:**

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**Steps:**

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**Ref:**

* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 4:**

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**Steps:**

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**Ref:**

* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 5:**

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**Steps:**

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**Ref:**

* <https://kubernetes.io/docs/tasks/administer-cluster/kubeadm/kubeadm-upgrade/>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 6:**

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**Steps:**

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**Ref:**

* <https://kubernetes.io/docs/reference/access-authn-authz/certificate-signing-requests/#create-private-key>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 7:**

**Steps:**

**Ref:**

* <https://kubernetes.io/docs/concepts/services-networking/network-policies/#networkpolicy-resource>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 8:**

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**Steps:**

**Ref:**

* <https://kubernetes.io/docs/concepts/storage/persistent-volumes/>
* <https://kubernetes.io/docs/tasks/configure-pod-container/configure-persistent-volume-storage/>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 9:**

**Steps:**

**Ref:**

* <https://kubernetes.io/docs/concepts/services-networking/network-policies/#networkpolicy-resource>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>

##### **Question 10:**

**Steps:**

**Ref:**

* <https://kubernetes.io/docs/concepts/services-networking/network-policies/#networkpolicy-resource>
* <https://kubernetes.io/docs/reference/kubectl/quick-reference/>