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Linux Foundation CKA Dumps

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Certified Kubernetes Administrator (CKA) Program



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>> Learning CKA Mode <<

**Learning CKA Mode - Pass Certified Kubernetes Administrator (CKA)
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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q80-Q85):

NEW QUESTION # 80

Create and configure the service front-end-service so it's accessible through NodePort and routes to the existing pod named front-end.

Answer:

Explanation:

See the solution below.

Explanation

solution

F:\Work\Data Entry Work\Data Entry\20200827\CKA\8 B.JPG

```
root@node-1:~# k expose po
error: resource(s) were provided, but no name, label selector, or --all flag specified
See 'kubectl expose -h' for help and examples
root@node-1:~# k expose po fron-end --name=front-end-service --port=80 --target-port=80 --t
type=NodePort
Error from server (NotFound): pods "fron-end" not found
root@node-1:~# k expose po front-end --name=front-end-service --port=80 --target-port=80 --
type=NodePort
service/front-end-service exposed
root@node-1:~# k get svc
NAME                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
front-end-service   NodePort            10.103.221.22    <none>            80:31828/TCP     3s
kubernetes           ClusterIP           10.96.0.1        <none>            443/TCP          77d
root@node-1:~#
```

NEW QUESTION # 81

List all persistent volumes sorted by capacity, saving the full kubectl output to /opt/KUCC00102/volume_list. Use kubectl's own functionality for sorting the output, and do not manipulate it any further.

Answer:

Explanation:

See the solution below.

Explanation

solution

Readme
Web Terminal

```

77d
pv0007 7Gi RWO Recycle Available slow
77d
pv0006 8Gi RWO Recycle Available slow
77d
pv0003 10Gi RWO Recycle Available slow
77d
pv0002 11Gi RWO Recycle Available slow
77d
pv0010 13Gi RWO Recycle Available slow
77d
pv0011 14Gi RWO Recycle Available slow
77d
pv0001 16Gi RWO Recycle Available slow
77d
pv0009 17Gi RWO Recycle Available slow
77d
pv0005 18Gi RWO Recycle Available slow
77d
pv0008 19Gi RWO Recycle Available slow
77d
pv0000 21Gi RWO Recycle Available slow
77d
root@node-1:~# kubectl pv --sort-by=.spec.capacity.storage > /opt/KUCC00102/volume_list
root@node-1:~#

```

NEW QUESTION # 82

List the nginx pod with custom columns POD_NAME and POD_STATUS

Answer:

Explanation:
See the solution below.
Explanation
kubectl get po -o=custom-columns="POD_NAME:.metadata.name, POD_STATUS:.status.containerStatuses[].state"

NEW QUESTION # 83

You have a Deployment named 'worker-deployment' with 10 replicas of a worker container. You need to implement a rolling update strategy that allows for a maximum of 3 pods to be unavailable at any given time during the update process. You also want to ensure that the update process is completed within a specified timeout of 10 minutes. If the update fails to complete within the timeout, the deployment should revert to the previous version. Additionally, you want to implement a pause functionality to temporarily halt the rolling update process.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Update the Deployment YAML:
- Update the 'replicas' to 10.
- Define 'maxUnavailable: 3' and 'maxSurge: 0' in the 'strategy.rollingUpdate' section to control the rolling update process.
- Configure a 'strategy.type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.
- Set Always' to ensure that the new image is pulled even if it exists in the pod's local cache.
- Add a 'spec.progressDeadlineSeconds: 600' to set a timeout of 10 minutes for the update process.

```

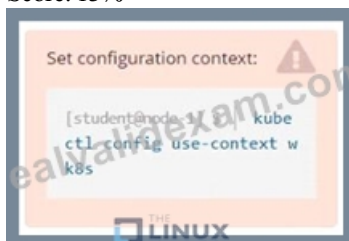
apiVersion: apps/v1
kind: Deployment
metadata:
  name: worker-deployment
spec:
  replicas: 10
  selector:
    matchLabels:
      app: worker
  template:
    metadata:
      labels:
        app: worker
    spec:
      containers:
        name: worker
        image: my-org/worker:latest
        imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 3
      maxSurge: 0
  progressDeadlineSeconds: 600

```

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f worker-deployment.yaml'
3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments worker-deployment' to confirm the rollout and updated replica count.
4. Trigger the Automatic Update: - Push a new image to the 'my-org/worker:latest' Docker Hub repository.
5. Monitor the Deployment: - Use 'kubectl get pods -l app=worker' to monitor the pod updates during the rolling update process.
6. Pause the Rolling Update: - To pause the rolling update process, use the following command: `bash kubectl rollout pause deployment worker-deployment`
7. Resume the Rolling Update: - To resume the rolling update process, use the following command: `bash kubectl rollout resume deployment worker-deployment`
8. Observe Rollback if Timeout Exceeds: - If the update process takes longer than 10 minutes to complete, the deployment will be rolled back to the previous version. This can be observed using 'kubectl describe deployment worker-deployment' and checking the 'updatedReplicas' and 'availableReplicas' fields.

NEW QUESTION # 84

Score: 13%



Task

A Kubernetes worker node, named wk8s-node-0 is in state NotReady. Investigate why this is the case, and perform any appropriate steps to bring the node to a Ready state, ensuring that any changes are made permanent.



Answer:

Explanation:

Solution:

`sudo -i`

`systemctl status kubelet`

`systemctl start kubelet`

`systemctl enable kubelet`

NEW QUESTION # 85

.....

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