KUBERNETES TIME CHECK POD

The Nautilus DevOps team want to create a time check pod in a particular Kubernetes namespace and record the logs. This might be initially used only for testing purposes, but later can be implemented in an existing cluster. Please find more details below about the task and perform it.

1. Create a pod called time-check in the datacenter namespace. This pod should run a container called time-check, container should use the busybox image with latest tag only and remember to mention tag i.e busybox:latest.
2. Create a config map called time-config with the data TIME\_FREQ=8 in the same namespace.
3. The time-check container should run the command: while true; do date; sleep $TIME\_FREQ;done and should write the result to the location /opt/data/time/time-check.log. Remember you will also need to add an environmental variable TIME\_FREQ in the container, which should pick value from the config map TIME\_FREQ key.
4. Create a volume log-volume and mount the same on /opt/data/time within the container.

Note: The kubectl utility on jump\_host has been configured to work with the kubernetes cluste

SOLUTION

Kubectl create namespace datacenter

Vi time.yml

apiVersion: v1

kind: ConfigMap

metadata:

name: time-config

namespace: devops

data:

TIME\_FREQ: "10"

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apiVersion: v1

kind: Pod

metadata:

name: time-check

namespace: devops

labels:

app: time-check

spec:

volumes:

- name: log-volume

emptyDir: {}

containers:

- name: time-check

image: busybox:latest

volumeMounts:

- mountPath: /opt/security/time

name: log-volume

envFrom:

- configMapRef:

name: time-config

command: ["/bin/sh", "-c"]

args:

[

"while true; do date; sleep $TIME\_FREQ;done > /opt/security/time/time-check.log",

]

Kubectl create -f time.yml