

- 1- How many ConfigMaps exist in the environment?
- 2- Create a new ConfigMap Use the spec given below.  
ConfigName Name: webapp-config-map  
Data: APP\_COLOR=darkblue
- 3- Create a webapp-color POD with nginx image and use the created ConfigMap
- 4- How many Secrets exist on the system?
- 5- How many secrets are defined in the default-token secret?
- 6- create a POD called db-pod with the image mysql:5.7 then check the POD status
- 7- why the db-pod status not ready
- 8- Create a new secret named db-secret with the data given below.  
Secret Name: db-secret  
Secret 1: MYSQL\_DATABASE=sql01  
Secret 2: MYSQL\_USER=user1  
Secret3: MYSQL\_PASSWORD=password  
Secret 4: MYSQL\_ROOT\_PASSWORD=password123
- 9- Configure db-pod to load environment variables from the newly created secret.  
Delete and recreate the pod if required.
- 10- Create a multi-container pod with 2 containers.  
Name: yellow  
Container 1 Name: lemon  
Container 1 Image: busybox  
Container 2 Name: gold  
Container 2 Image: redis
- 11- Create a pod red with redis image and use an initContainer that uses the busybox image and sleeps for 20 seconds
- 12- Create a pod named print-envvars-greeting.
  1. Configure spec as, the container name should be print-env-container and use bash image.
  2. Create three environment variables:
    - a. GREETING and its value should be "Welcome to"
    - b. COMPANY and its value should be "DevOps"

c. GROUP and its value should be "Industries"

4. Use command to echo ["\$(GREETING) \$(COMPANY) \$(GROUP)"] message.

5. You can check the output using <kubctl logs -f [ pod-name ]> command.

13- Where is the default kubeconfig file located in the current environment?

14- How many clusters are defined in the default kubeconfig file?

15- What is the user configured in the current context?

16- Create a Persistent Volume with the given specification.

Volume Name: pv-log

Storage: 100Mi

Access Modes: ReadWriteMany

Host Path: /pv/log

17- Create a Persistent Volume Claim with the given specification.

Volume Name: claim-log-1

Storage Request: 50Mi

Access Modes: ReadWriteMany

18- Create a webapp pod to use the persistent volume claim as its storage.

Name: webapp

Image Name: nginx

Volume: PersistentVolumeClaim=claim-log-1

Volume Mount: /var/log/nginx