CKA-密码管理

讲师： 老段 RHCE/RHCA/COA/CKA

能用到的镜像

docker pull hub.c.163.com/library/mysql:latest

docker pull hub.c.163.com/library/wordpress:latest

-e WORDPRESS_DB_HOST=
-e WORDPRESS_DB_USER=
-e WORDPRESS_DB_PASSWORD=
-e WORDPRESS_DB_NAME=

命令行创建secret

```
kubectl create secret generic mysecret1 --from-literal=user=tom --from-literal=password1=redhat --from-literal=password2=redhat

echo -n tom > user
echo -n redhat > password1
echo -n redhat > password2
kubectl create secret generic mysecret2 --from-file=./user --from-file=./password1 --from-file=./password2
```

注意：此文件名就是变量名

其他方式创建secret

```
cat env.txt
user=tom
password1=redhat
password2=redhat

kubectl create secret generic mysecret3
--from-env-file=env.txt
```

```
kubectl get secret mysecret1 -o yaml
kubectl edit secrets mysecret2
echo "dG9t" | base64 --decode
echo "cmVkaGF0" | base64 --decode
```

```
echo -n 'tom' | base64
echo -n 'redhat' | base64
apiVersion: v1
kind: Secret
metadata:
 name: mysecret4
type: Opaque
data:
 user: dG9t
 password1: cmVkaGF0
 password2: cmVkaGF0
```

以卷的方式使用secret

```
apiVersion: v1
kind: Pod
metadata:
 labels:
  run: nginx
 name: nginx
spec:
 volumes:
 - name: xx
  secret:
   secretName: mysecret1
 containers:
 - image: nginx
  name: nginx
  volumeMounts:
  - name: xx
   mountPath: "/etc/xx"
   readOnly: true
```

```
[root@vms51 ~]# kubectl exec -it nginx bash
root@nginx:/#
root@nginx:/# ls /etc/xx/
password1  password2  user
root@nginx:/#
root@nginx:/# cat /etc/xx/user
tomroot@nginx:/#
root@nginx:/# cat /etc/xx/password1
redhatroot@nginx:/#
root@nginx:/# cat /etc/xx/password2
redhatroot@nginx:/#
root@nginx:/#
```

"Modify your image and/or command line so that the program looks for files in that directory. Each key in the secret data map becomes the filename under mountPath."

变量的方式使用secret

```
apiVersion: v1
kind: Pod
metadata:
 name: mysql
 labels:
  name: mysql
spec:
 containers:
 - image: hub.c.163.com/library/mysql:latest
  name: mysql
  ports:
   - containerPort: 3306
    name: mysql
  env:
   - name: MYSQL_ROOT_PASSWORD
    valueFrom:
     secretKeyRef:
      name: mysecret1
      key: password1
```

configmap

kubectl create configmap my1 --from-literal=user=tom --from-literal=password=redhat

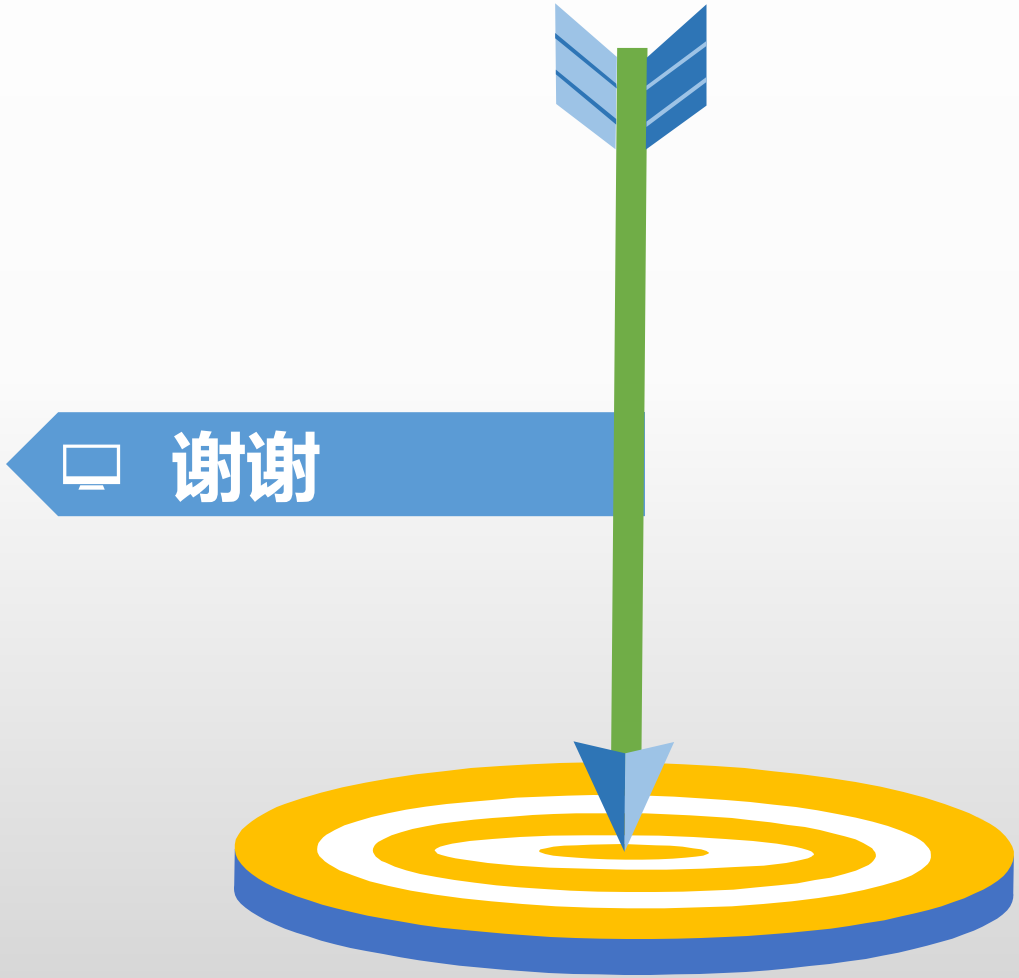
echo -n tom > user
echo -n redhat > password1
kubectl create configmap my2 --from-file=./user --from-file=./password1

cat env.txt
user=tom
password=redhat

kubectl create configmap my3 --from-env-file=./env.txt

```
apiVersion: v1
kind: Pod
metadata:
 labels:
  run: nginx
 name: nginx2
spec:
 volumes:
 - name: xx
  configMap:
   name: my1
 containers:
 - image: nginx
  name: nginx
  volumeMounts:
  - name: xx
   mountPath: "/etc/xx"
   readOnly: true
```

```
apiVersion: v1
kind: Pod
metadata:
 name: mysql2
 labels:
  name: mysql
spec:
 containers:
 - image: hub.c.163.com/library/mysql:latest
  name: mysql
  ports:
   - containerPort: 3306
    name: mysql
  env:
   - name: MYSQL_ROOT_PASSWORD
    valueFrom:
     configMapKeyRef:
      name: my1
      key: password
```


谢谢