[25] User Role Binding

Configuring User API Authentication

- TASK:
  - Create the kubeconfig named `ckauser`
    - username: `ckauser`
    - `ckauser` cluster must be operated with the privileges of the `ckauser` account
    - certificate location: /data/cka/ckauser.crt, /data/cka/ckauser.key
    - context-name: `ckauser`
  - Create a role named `pod-role` that can `create, delete, watch, list, get` pods.
  - Create the following rolebinding:
    - name: `pod-rolebinding`
    - role: `pod-role`
    - user: `ckauser`
- □□ □□□□: k8s

Reference

Certificate Signing Requests

Using RBAC Authorization

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```
[user@console ~]$ ssh k8s-master

# pod-role□□□ □□□ role □□
[user@k8s-master ~]$ kubectl create role pod-role --verb=create,delete,watch,list,get --resource=pods
[user@k8s-master ~]$ kubectl get role pod-role
[user@k8s-master ~]$ kubectl describe role pod-role

# role-binding □□
```

```
[user@k8s-master ~]$ kubectl create rolebinding pod-rolebinding --role=pod-role --user=ckauser
[user@k8s-master ~]$ kubectl get rolebinding pod-rolebinding
[user@k8s-master ~]$ kubectl describe rolebinding pod-rolebinding

# context안에 user를 넣어줘야함
[user@k8s-master ~]$ kubectl config set-credentials ckauser --client-key=/data/cka/ckauser.key --client-certificate=/data/cka/ckauser.crt --embed-certs=true

# ckauser가 인증서 기반으로 생성된것 확인 가능
[user@k8s-master ~]$ kubectl config view
[user@k8s-master ~]$ kubectl config set-context ckauser --cluster=kubernetes --user=ckauser

# 테스트 해보기
[user@k8s-master ~]$ kubectl config use-context ckauser
[user@k8s-master ~]$ kubectl get pods

[user@k8s-master ~]$ kubectl get service
--> service에 대한 권한이 없기 때문에 불가능

# 원래 클러스터로 복귀
[user@k8s-master ~]$ kubectl config use-context kubernetes-admin@kubernetes
```

Revision #1
Created 31 May 2023 00:20:03 by 와지
Updated 20 June 2023 13:20:12 by 와지