CKA/CKAD: Complete Certification Guide

Kubernetes - Authentication, Authorization, Admission Control

certified



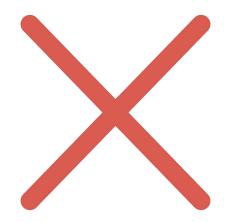


Authentication

Authorization

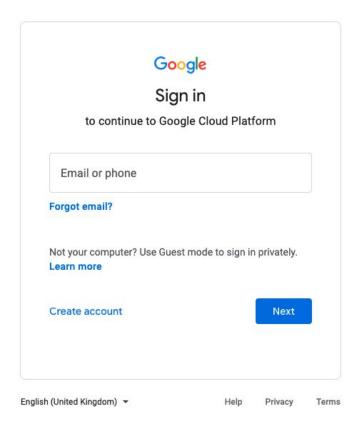
Admission Control

They all mean the Same? Right

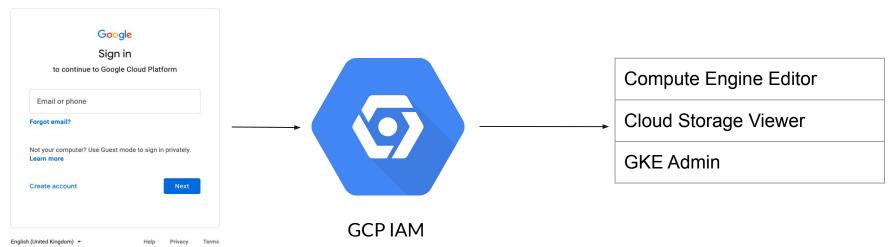


- > Authentication:
- Identify and verify, who you are.

- > x509 Certificates
- Bearer Tokens
- Username/Password
- LDAP/Oauth



- Authorization
- Authentication process happens before Authorization.
- Authorization focus on level of privilege and permissions.



Identity	Authorization	
	Service	Permission
Mark	Cloud Storage	Editor
June	Compute Engine	Viewer
Alice	GKE Cloud Storage	Editor Admin
Peter	IAM	Create/Delete Users

➤ In Kubernetes Authorization Managed by the **RBAC** (Role-based access control).

Admission Control:

- Admission controllers are a powerful Kubernetes-native feature that helps to define and customize what is allowed to run on K8s cluster.
- Admission controller intercepts and processes requests to the Kubernetes API prior to persistence of the object, but after the request is authenticated and authorized.

- Power of Kubernetes admission controllers
- Is the pod requesting too many resources?
- > They can block pods from running if the cluster is out of resources or if the images are not secure.
- What is the priority of this deployment compared to the others?
- Which privileges are currently granted to the service account linked to these pods/deployments? Do they adhere to the principle of least privilege?

Thank You...

Don't be the Same! Be Better!!!