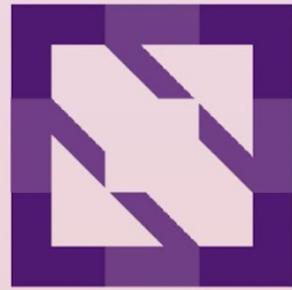




KubeCon

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Beyond Passwords: Keycloak's Contributions to IAM(Identity and Access Management) + Security

Soojin Lee & Hoon Jo, Megazone



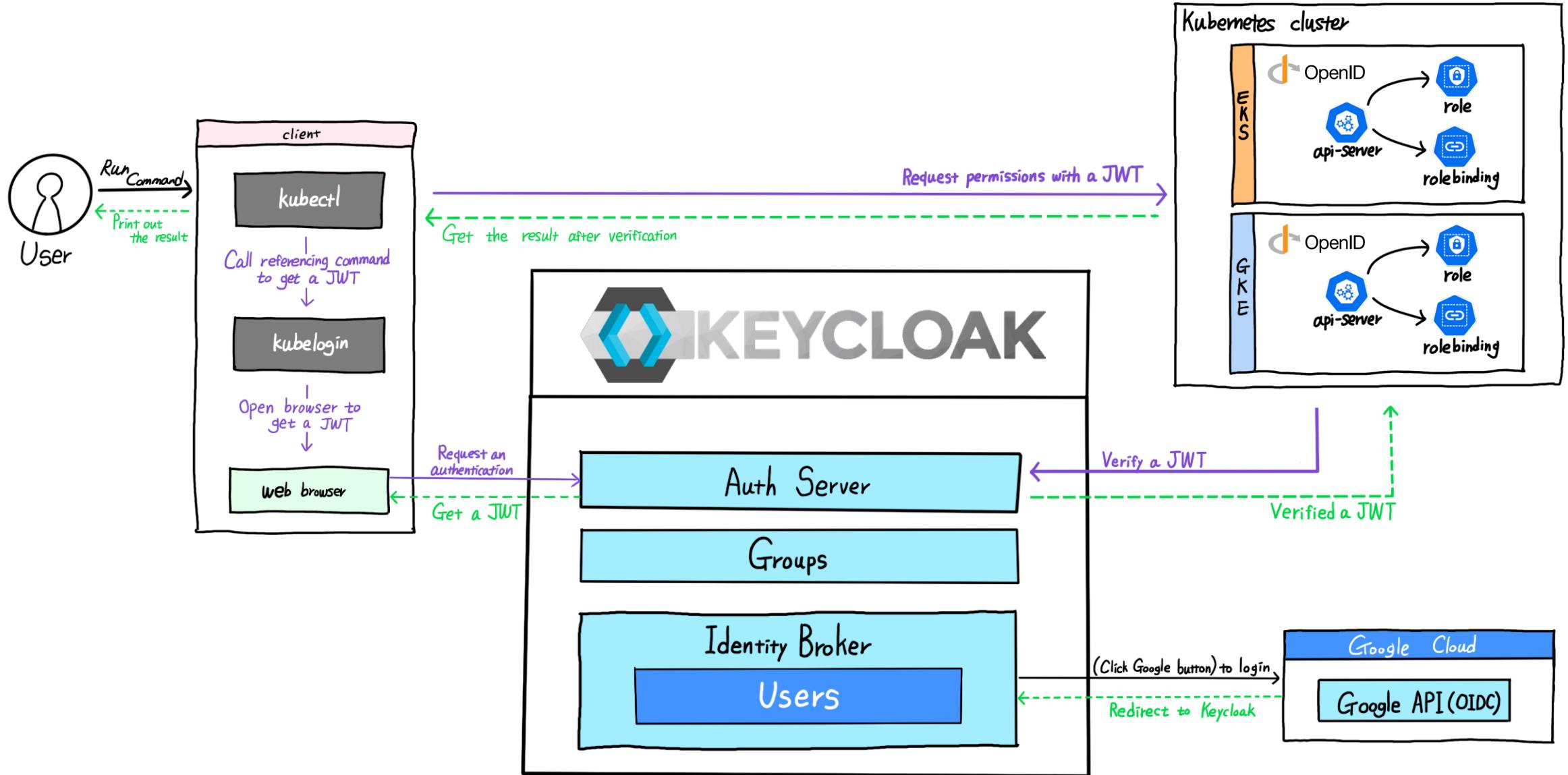
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Who is us?



Soojin Lee

Cloud Engineer, Megazone



<https://github.com/lifeoncloud>



<https://www.linkedin.com/in/soojinlee-oncloud/>



Hoon Jo

CNCF Ambassador, Cloud Solutions Architect, Megazone



<https://github.com/SysNet4Admin>



<https://www.linkedin.com/in/hoonjo>



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IAM

Authentication | Authorization



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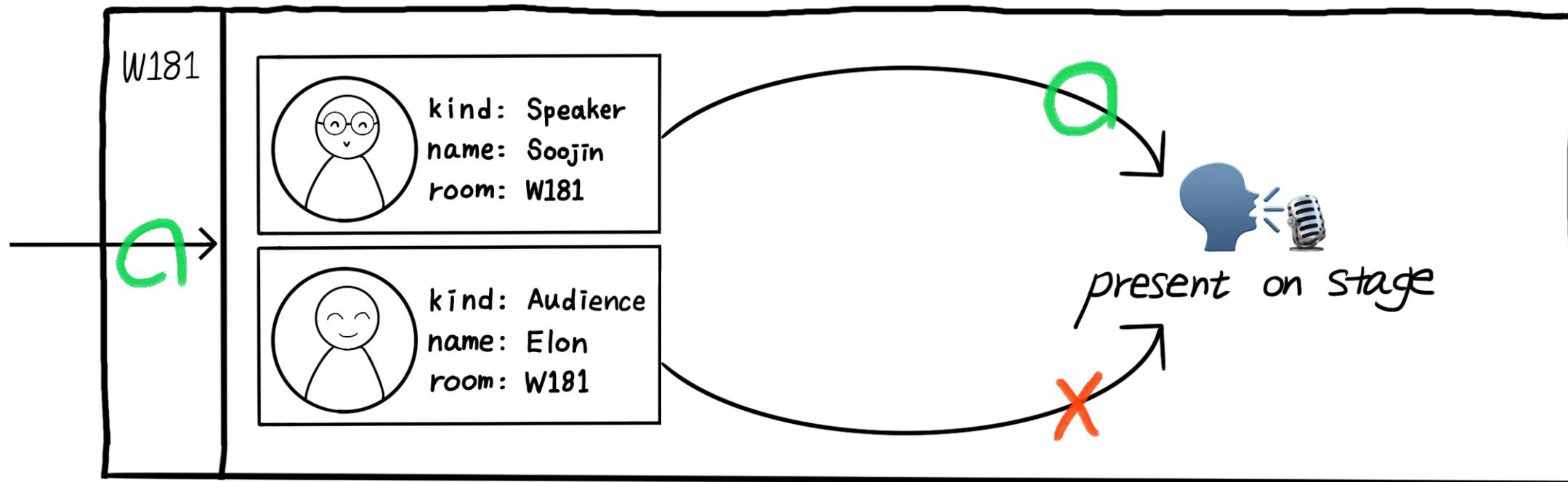
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Authentication

"Who are you?"

Authorization

"Can you do that?"



Authentication | Authorization in k8s



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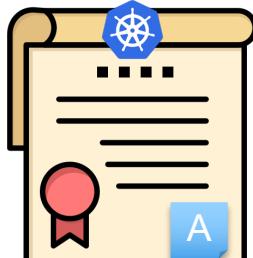
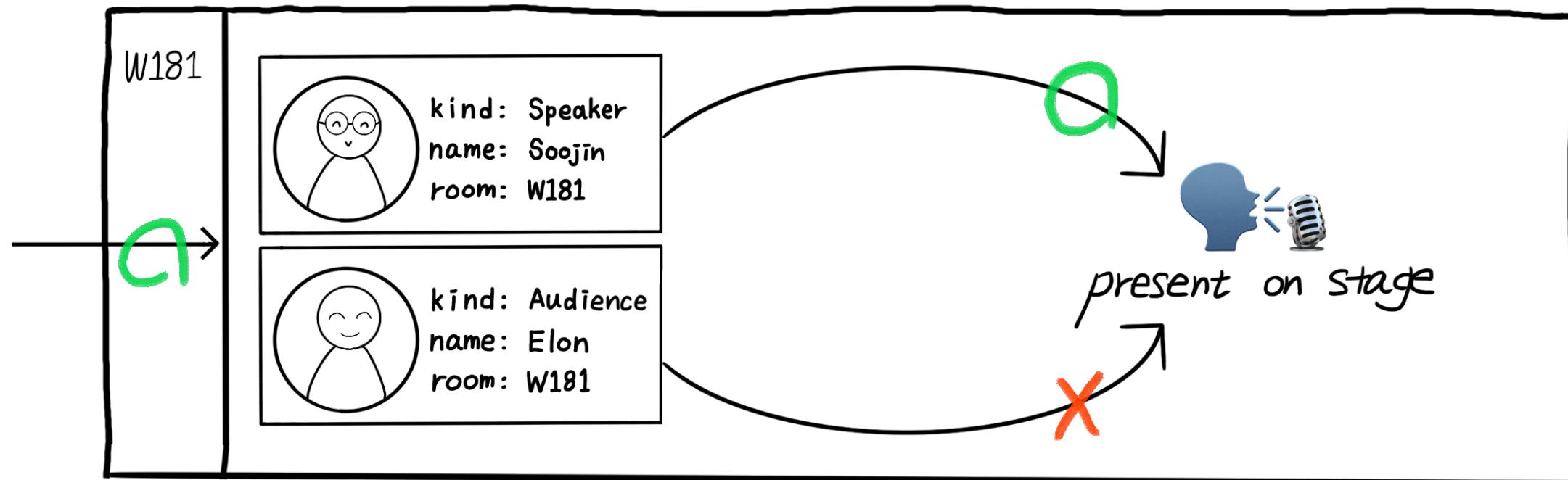
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Authentication

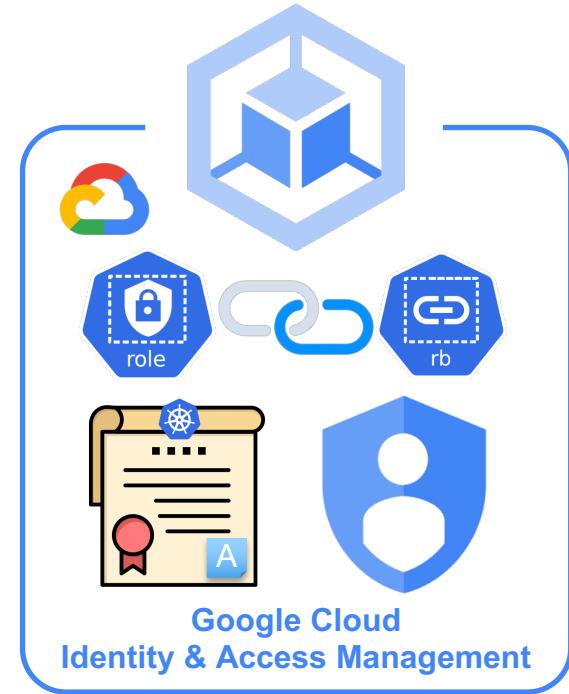
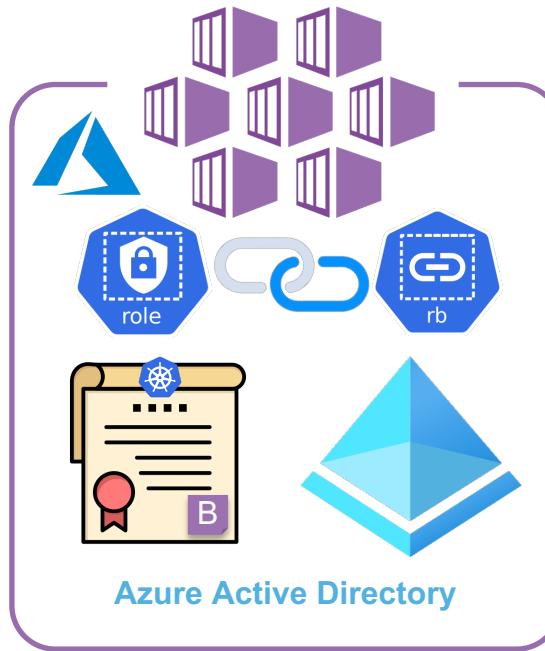
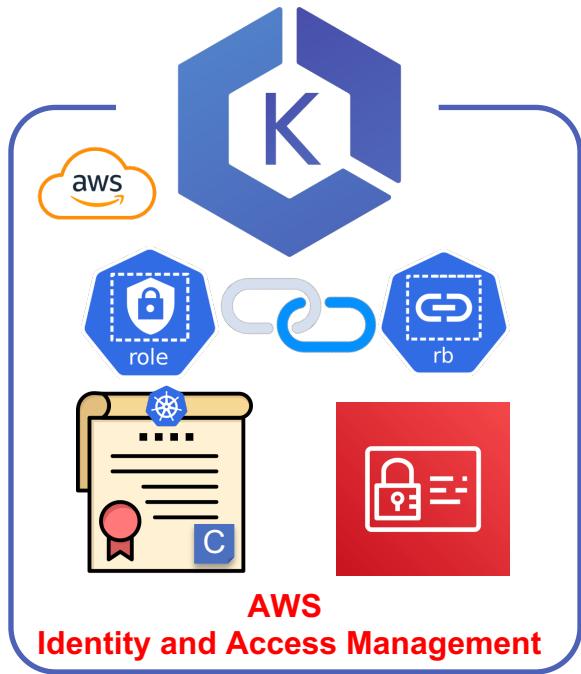
"Who are you?"

Authorization

"Can you do that?"



IAM for Multi Cloud World





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+ Security

Passwords from my desk

A.com

ID: admin
PW: admin

B.com

ID: admin
PW: admin

C.com

ID: admin
PW: 12345678

D.com

ID: administrator
PW: qwerty



Solved by Keycloak SSO





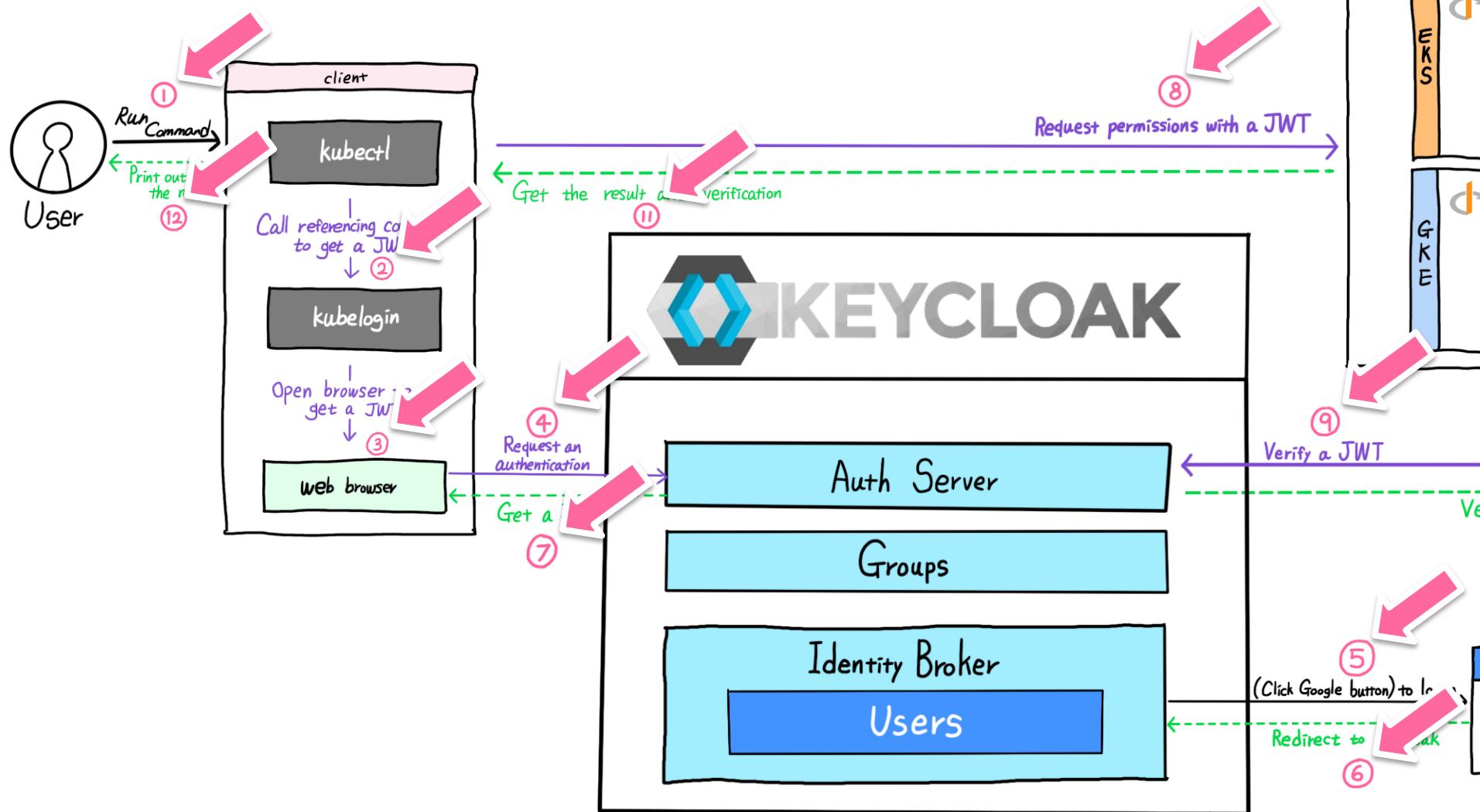
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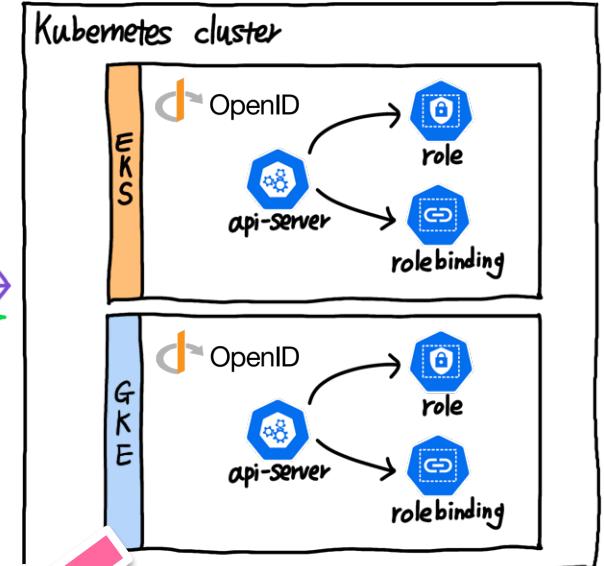
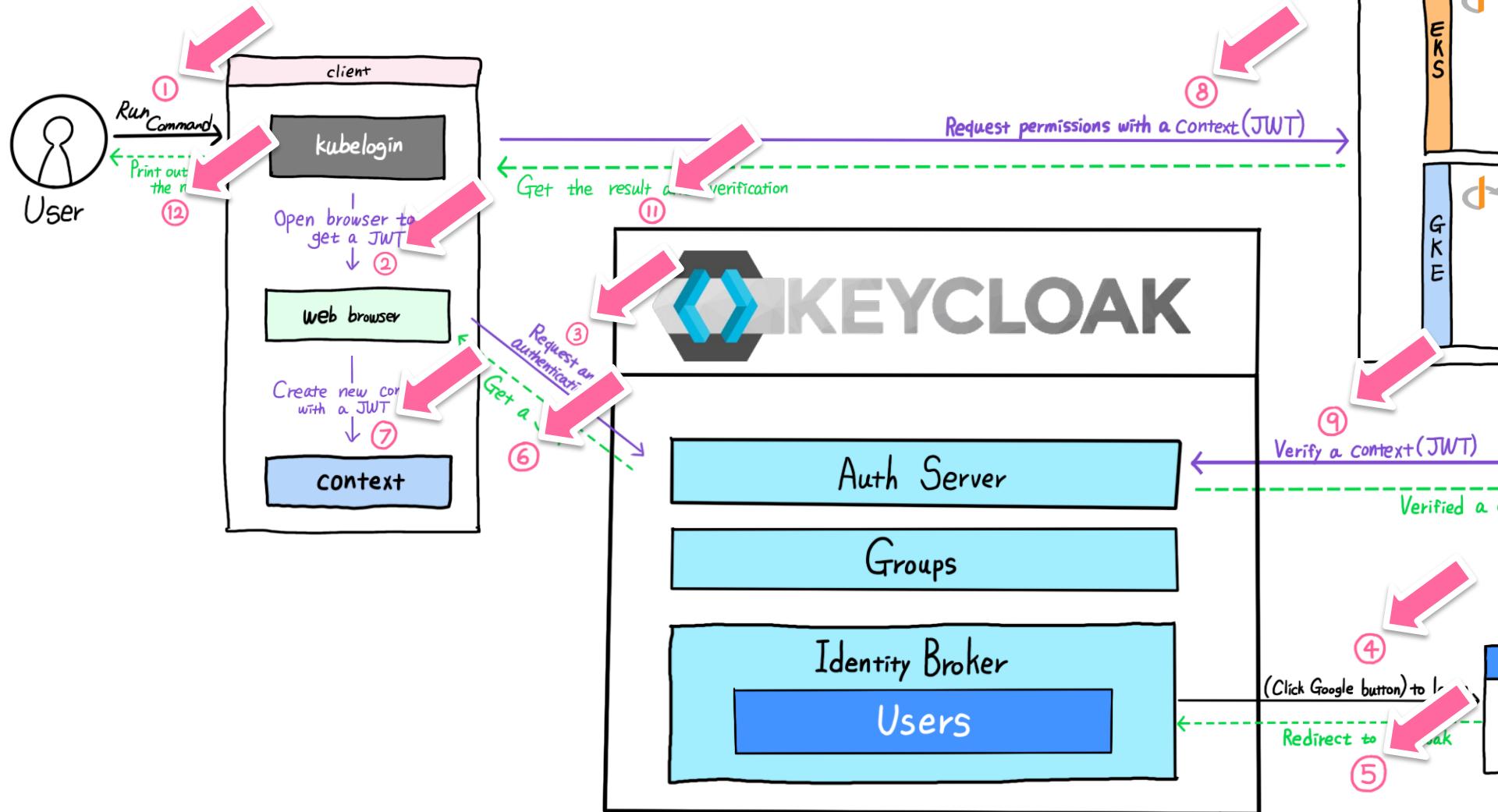


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DEMO





DEMO

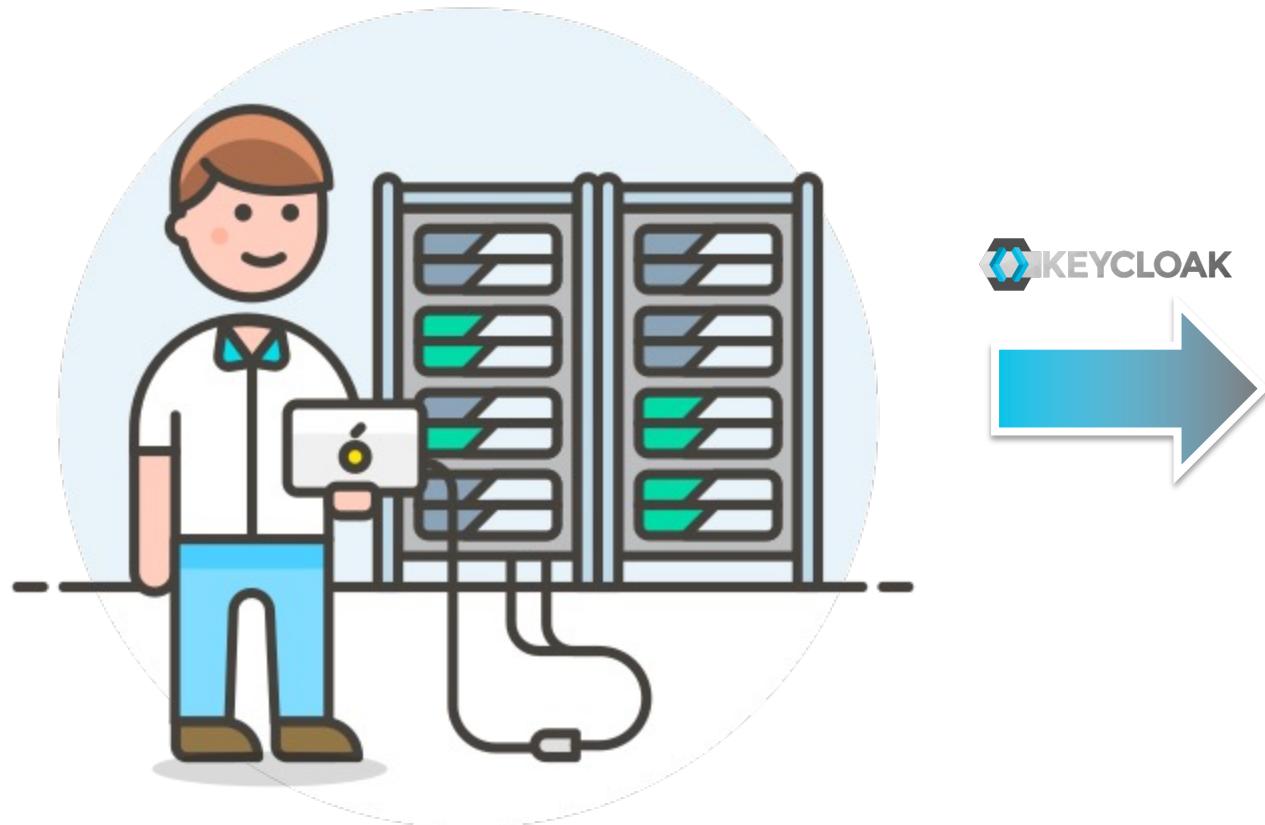


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TL; DR

1. (Simply)

I ntegrate app with proper Auth[N,Z]

2. (Quickly)

A pply your unique identity provider

3. (Efficiently)

M anage centralized IAM organization

+ Security

Reference List

Demo Source Code:

<https://github.com/sysnet4admin/laC/tree/main/Keycloak>

Demo Reference Topology:

<https://developer.okta.com/blog/2021/11/08/k8s-api-server-oidc>

GKE Ingress Configuration:

<https://cloud.google.com/kubernetes-engine/docs/concepts/ingress>

<https://cloud.google.com/kubernetes-engine/docs/tutorials/http-balancer>

<https://cloud.google.com/kubernetes-engine/docs/how-to/managed-certs>

kubelogin Binary:

<https://github.com/int128/kubelogin>

GKE OIDC Configuration Guide:

<https://cloud.google.com/kubernetes-engine/docs/how-to/oidc>

AWS eksctl Configuration Guide (w/ OIDC Configuration):

<https://eksctl.io/usage/schema/>





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