

FIWARE  
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Summit**

# Kong-Keycloak extension

Keycloak as PDP in a FIWARE platform

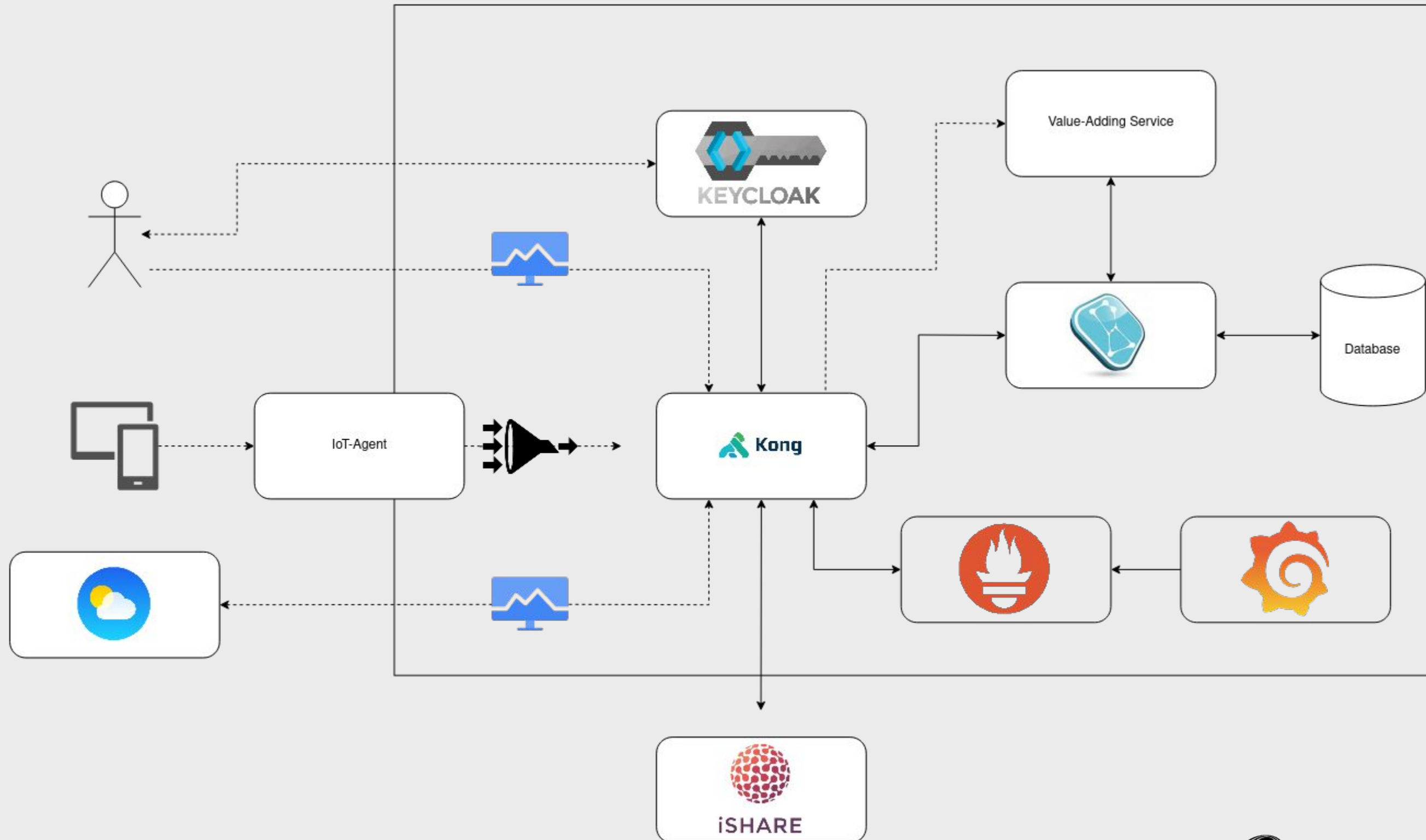
Gran Canaria, Spain  
14-15 September, 2022  
**#FIWARESummit**

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# A FIWARE platform



# Why?

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- Keycloak is already used in
  - existing FIWARE Systems (see f.e. [fiware-ops/marinera](https://fiware-ops.marinera.io/))
  - existing non-FIWARE Systems – potential adopters
- Very active maintenance – frequent security updates
- OAuth2/OIDC support
- Feature [“Authorization-Services”](#) -> already existing solution for PDP

# PEP-Plugin to connect Keycloak

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- Same plugin: [kong-pep-plugin](#)

```
kong:
  ...
  env:
    ...
    plugins: bundled,pep-plugin,ngsi-ishare-policies
    pluginserver_names: pep-plugin
    pluginserver_pep_plugin_start_cmd: "/go-plugins/pep-plugin"
    pluginserver_pep_plugin_query_cmd: "/go-plugins/pep-plugin -dump"
    ...
  dblessConfig:
    configMap: kong-configmap
```

```
services:
- host: "fiware-orion-ld"
  name: "orion-keycloak"
  port: 1026
  protocol: http

  routes:
  - name: orion-keycloak
    paths:
    - /keycloak
    strip_path: true

  plugins:
  - name: pep-plugin
    config:
      authorizationendpointtype: Keycloak
      authorizationendpointaddress: http://keycloak:80
      keycloakrealm: fiware-server
      keycloakclientid: orion-pep
      keycloakclientsecret: my-secret
      keycloakadditionalclaims:
        "http.fiware-servicepath": "fiware-servicepath"
        "http.fiware-service": "fiware-service"
```



# Keycloak deployment and configuration

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- Helm-Chart: [bitnami/keycloak](https://bitnami.com/kubernetes/helm-charts/keycloak)
- Example configuration for policies: [FIWARE-ops/fiware-gitops](https://github.com/FIWARE-ops/fiware-gitops)
- Currently supported:
  - Role-based decisions
  - Path-based decisions
  - header-evaluation

# Demo

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- <https://keycloak.fware.dev>



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# Thanks!

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