# OpenID Connect Discovery



Dentro de las "reglas" de OpenID, podemos destacar **OpenID Connect Discovery**. Esta indica que el proveedor debe ofrecer un endpoint que nos permita obtener información acerca de su configuración. El proveedor que implementa OpenID Connect, en nuestro caso, es **Keycloak**.



## ¿Cómo podemos ver esta información?

Mediante una petición utilizando el método **GET** al endpoint:



URL\_HOST\_KEYCLOAK/realms/REALM\_NAME/.well-known/openid-configuration

En nuestro caso, tenemos al servidor de Keycloak ejecutándose en el puerto 8085, así que nos quedará:

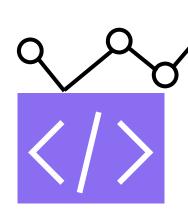
Recordá que en URL\_HOST\_KEYCLOAK tenemos que colocar la url donde tengamos levantado Keycloak, mientras que en REALM\_NAME tendremos que poner el nombre de nuestro reino. Por ejemplo:

http://localhost:8080/realms/digital-house/.well-known/openid-configuration

## ¿Qué información obtenemos?

En la respuesta podemos destacar los siguientes atributos:

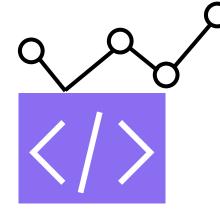
```
"issuer": "http://localhost:8085/realms/digital-house",
  "authorization_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/auth",
  "token_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token",
  "introspection_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token/introspect",
  "userinfo_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/userinfo",
  "end_session_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/logout",
  "frontchannel_logout_session_supported": true,
  "frontchannel_logout_supported": true,
  "jwks_uri": "http://localhost:8085/realms/digital-house/protocol/openid-connect/certs",
  "check_session_iframe":
"http://localhost:8085/realms/digital-house/protocol/openid-connect/login-status-iframe.html
```



#### issuer:

URL de nuestro reino dentro de Keycloak.



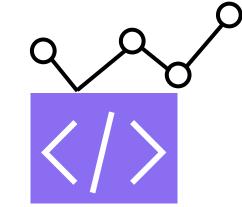


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  "token_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token",
  "introspection_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token/introspect",
  "userinfo_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/userinfo",
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  "check_session_iframe":
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```

### authorization\_ endpoint:

endpoint que se utiliza para autenticar al usuario en caso de que no esté logueado.

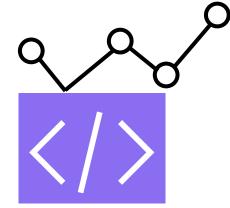




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  "frontchannel_logout_session_supported": true,
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  "jwks_uri": "http://localhost:8085/realms/digital-house/protocol/openid-connect/certs",
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"http://localhost:8085/realms/digital-house/protocol/openid-connect/login-status-iframe.html
```

token\_endpoint: endpoint para obtener el token.



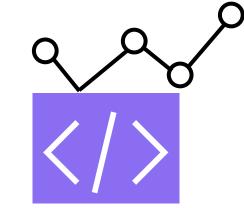


```
"issuer": "http://localhost:8085/realms/digital-house",
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  "token_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token",
  "introspection_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token/introspect",
  "userinfo_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/userinfo",
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  "check_session_iframe":
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```

## introspection\_ endpoint:

endpoint para obtener información sobre un token dado.





```
"issuer": "http://localhost:8085/realms/digital-house",
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  "token_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token",
  "introspection_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/token/introspect",
  "userinfo_endpoint": "http://localhost:8085/realms/digital-house/protocol/openid-connect/userinfo",
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  "jwks_uri": "http://localhost:8085/realms/digital-house/protocol/openid-connect/certs",
  "check_session_iframe":
"http://localhost:8085/realms/digital-house/protocol/openid-connect/login-status-iframe.html
```

userinfo\_
endpoint:
endpoint para
obtener
información de

un usuario.

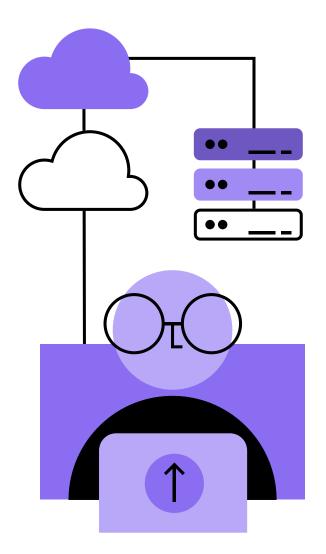


Si no recordamos estos endpoints, podemos repasar el flujo de autenticación y autorización visto en clases anteriores.

# ¿Para qué se usa esta información?

Esta información es utilizada por **Spring Security** (o cualquier otro cliente que se comunique con **Keycloak**) para implementar los diferentes flujos (autenticación y autorización) que especifica **OpenID**.

Por eso es que en esta clase decidimos explicarlo utilizando solamente **Postman**. Si utilizamos **Spring**, no podríamos ver cómo es realmente la conexión entre estos dos componentes.



¡Muchas gracias!