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1microteam / README.md



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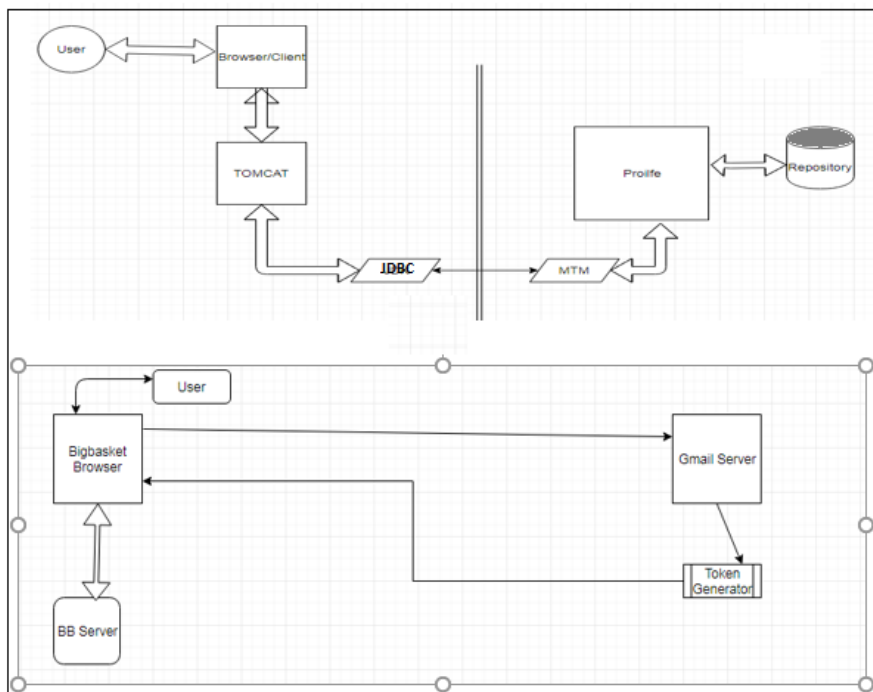
InnovateIN48 1MicroTeam WebSecureOpenIDConnectPro

This is a Java based application for authenticating and authorizing a user in a advanced and secure standard formatted way using JWT[JSON Web token]. When the user is authenticated you will see the result from a call to UserInfo and the contents of the id_token which was returned from OIDC.

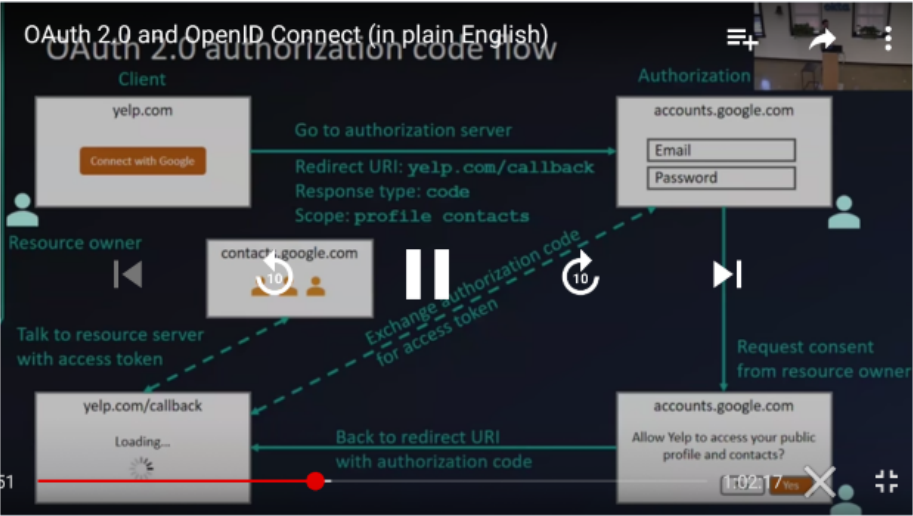
NOTE

This client uses the stable CURRENT-environment, which is set up with the BankID Preprod user-database. New test-users can be created self-serviced at <https://local.test-users.no/>

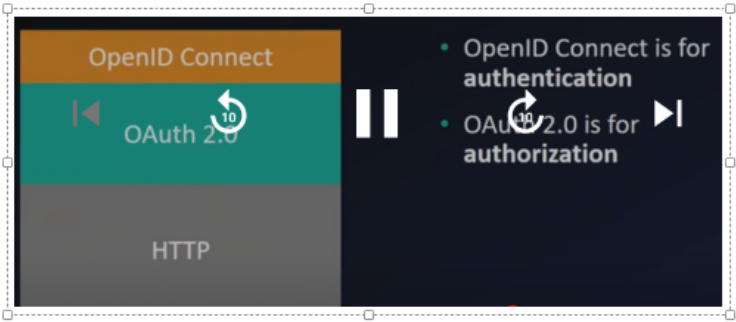
Current System and proposed model with simple example.



Proposed logical architecture



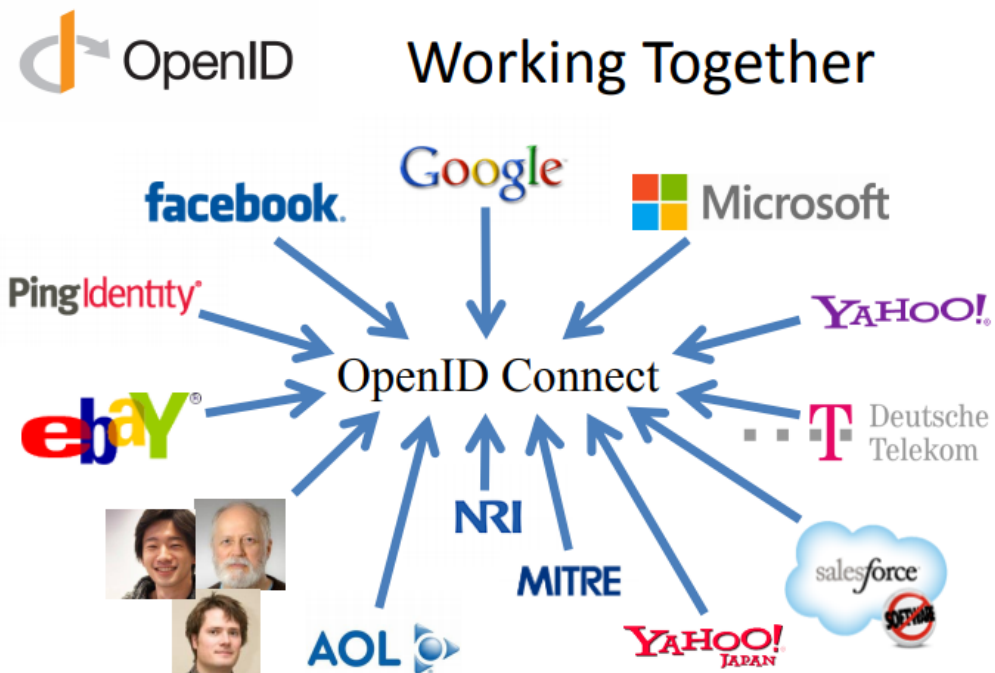
Layer and levels



Technologies used



Working together



Process flow

The application exemplifies all steps of the OIDC authentication process.

Benefits of

•Spans use cases, scenarios – Internet, Enterprise, Mobile, Cloud •Spans security & privacy requirements – From non-sensitive information to highly secure •Spans sophistication of claims usage – From basic default claims to specific requested claims to aggregated and distributed claims •Maximizes simplicity of implementations – Uses existing IETF specs: OAuth 2.0, JWT, etc. – Lets you build only the pieces you need - Increased trust between parties - Secure and tamper proof sharing - Fraud prevention

1. Fetch configuration from OIDC. GET to a non protected URL, such as <https://oidc-current.localhost.no/auth/realms/current/well-known/openid-configuration> The configuration contains information such as relevant endpoints, and public key for the id_token (JWT).
2. Redirect to the authentication URL.
3. Handle the callback from OIDC. The callback contains an attribute *access_code* which needs to be exchanged with the *access_token* (POST to OIDC)
4. Fetch user info. Finally we use the *access_token* to fetch a protected resource, in this case the user info provided by OIDC.

Build and run

To be able to run the application you will need to edit the `client_id` and `client_secret` in the `Configuration.class`.

```
class Configuration {  
  
    /**  
     * Client_id and secret must be inserted here for the application to work.  
     *  
     */  
    public static final String CLIENT_ID = "<insert client_id>";  
    public static final String CLIENT_SECRET = "<insert client password>";  
}
```

Run with maven and jetty

```
mvn clean install  
mvn jetty:run
```

Dependencies

This example application uses the following libraries

javax.servlet-api for web gui

jersey-client used in all integration

oauth2-client oauth2 support in jersey

org.json.json for json parsing

nimbus-jose-jwt for handling the json web token

jetty-maven-plugin for running the application locally with a dynamically created ssl-certificate.

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