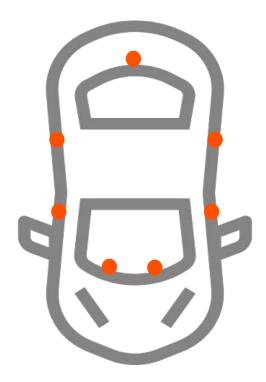


#### **Access Delegation**

- Authorizing an application to access your resources on your behalf
- Enables granting access to execute limited actions depending on the need
- Granted permissions can be revoked from the delegates easily

#### Example: Master Key vs. Valet Key

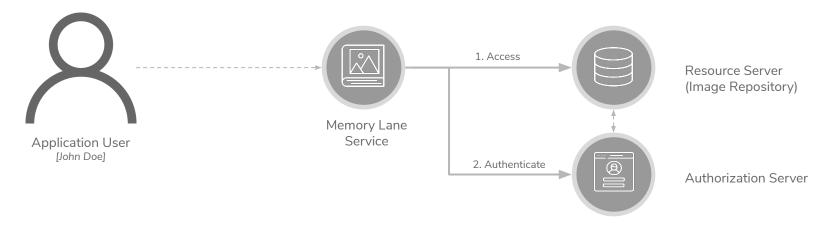


Access Points for the Master Key

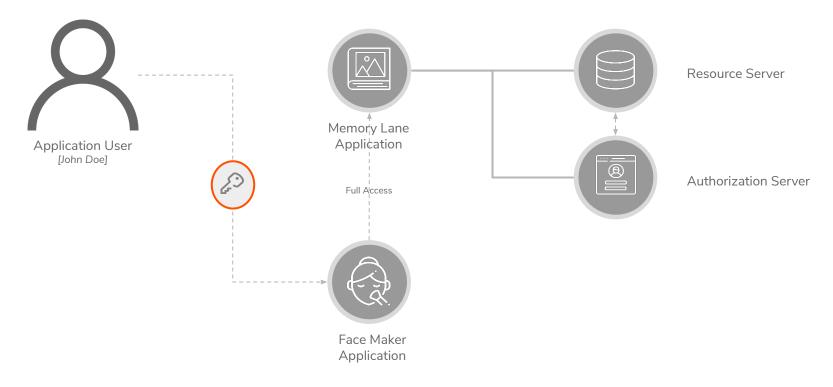


Access Points for the Valet Key

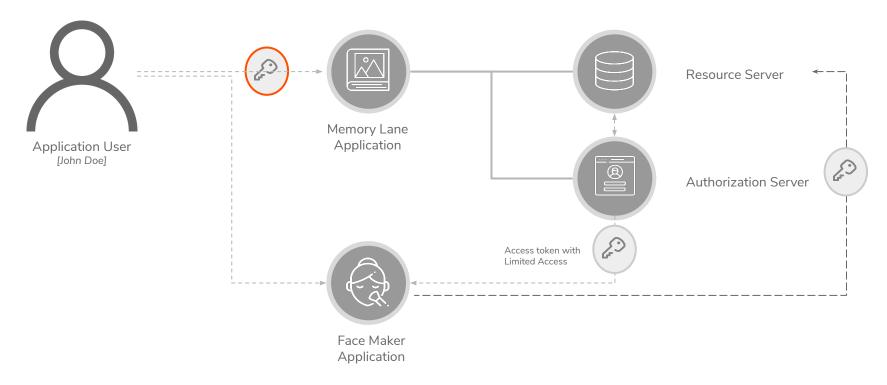
#### Example: Memory Lane image service



#### Example: Face Maker photo editing service



#### Example: Face Maker accesses images on behalf of users



### An Overview to OAuth2

#### What is OAuth2

- An industry-standard, light-weight protocol used for secure access delegation
- Enables applications to access resources without having to using the account credentials at the application site
- Generates tokens with limited access to facilitate accessing resources securely
- Extensible framework to implement new access delegation use cases

#### OAuth2 Roles

Who does what



[John Doe]



[Messenger/ Face Maker]



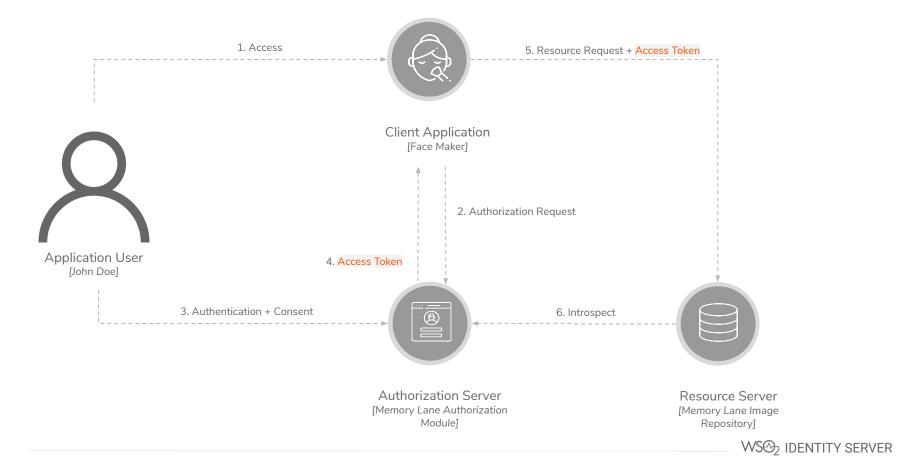
[Google/ Facebook/ Memory Lane Authorization Module]



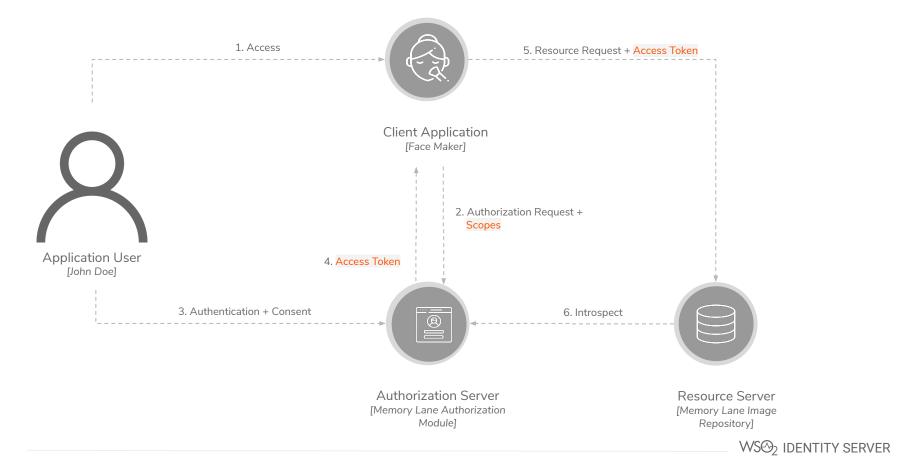
[Memory Lane Repository/ Facebook]

# Sample Scenarios

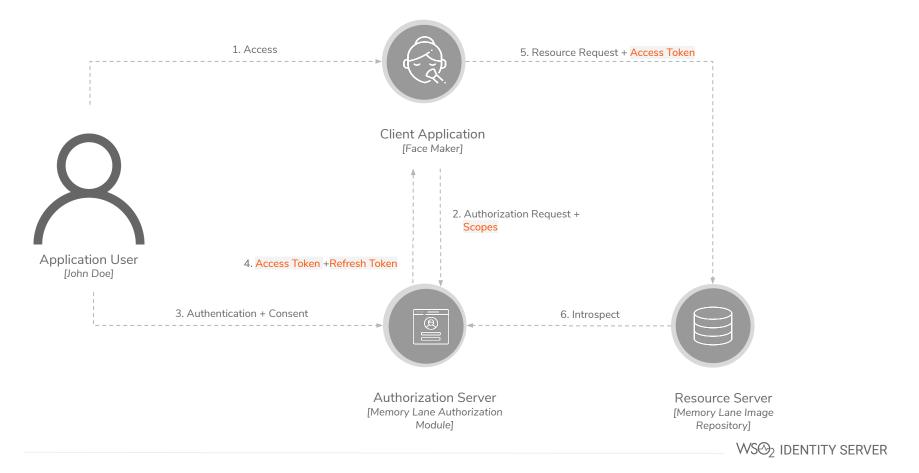
#### Accessing Third-Party Resources with Access Tokens



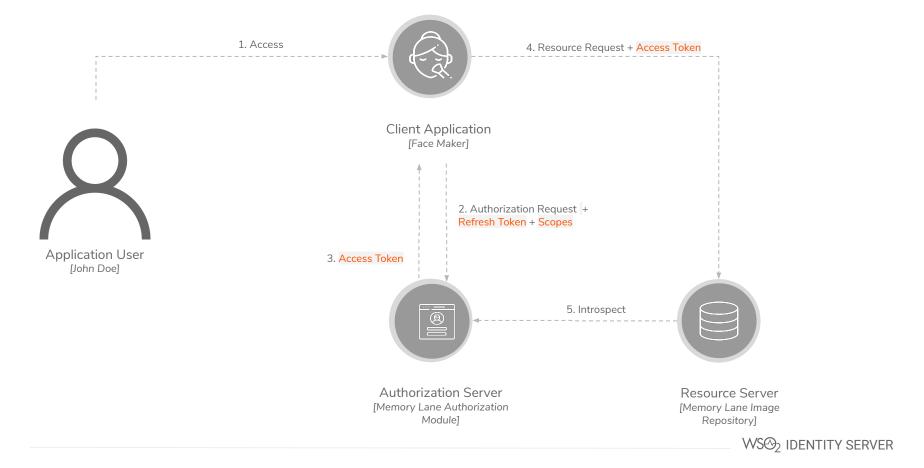
#### Limiting Access to Third-Party Resources with Scopes



#### Sustaining the Access Token Validity



### Refreshing Access Token Upon Expiry



## **Tokens and Grants**

### **Token Types**



**Duration**: Short **Purpose**: Access resources



**Duration**: Long **Purpose**: Get new access tokens



**Duration**: One-time **Purpose**: Get new access tokens

#### **Grant Types**



# Quick Recap



- 1. Overview of access delegation
- 2. Overview of OAuth 2.0 concepts
- 3. Sample access delegation scenario with OAuth 2.0

## Any Questions?

Reach us through the following channels

iam-dev@wso2.org
iam-dev@wso2.org

https://stackoverflow.com/questions/tagged/wso2

# https://wso2is.slack.com/

# Thank You