#### apigee

### OAuth - Authorization Code

#### **OAuth Grant Types**

Grant Type	Typical Use Case	Complex?		
No specific resource owner is involved				
Client Credentials	Business system interactions, where resources being operated on are owned by the partner, not a particular user	No		
A specific resource owner is involved				
Resource Owner Password Credentials	Resources are owned by a particular user and the requesting application is trusted	A bit		
Authorization Code	Resources are owned by a particular user and the requesting application is untrusted	Very		
Implicit	Resources are owned by a particular user, and the requesting application is an untrusted browser-based app written in a scripting language such as JavaScript			



#### What's the main idea?







User







User

User Agent









User

User Agent Client









User

User Agent Client



Apigee (Authorization Server)









User

User Agent Client





Apigee (Authorization Server)

Authentication Server (Login App)









User

User Agent Client

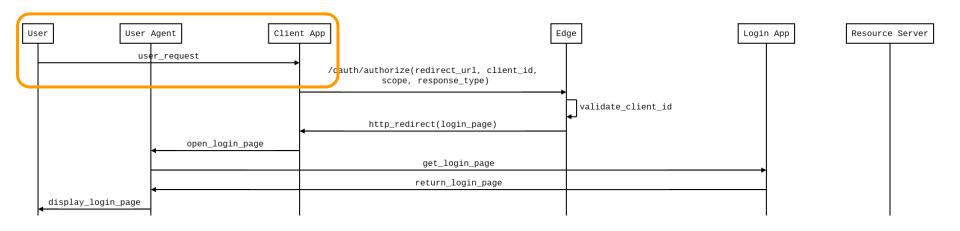




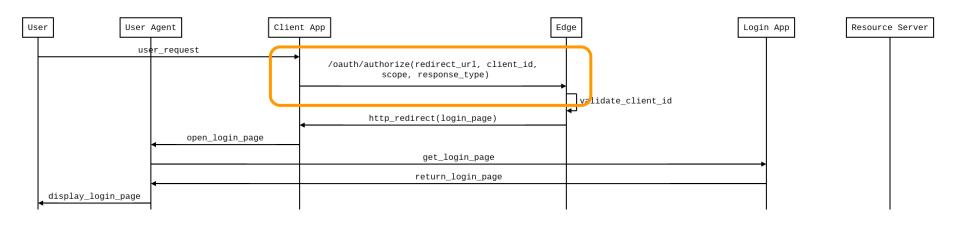


Apigee (Authorization Server) Authentication Server (Login App) Resource Server

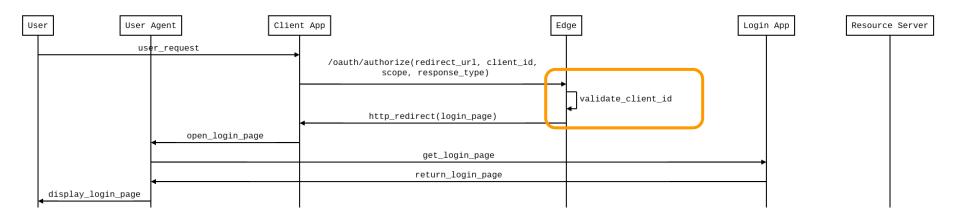




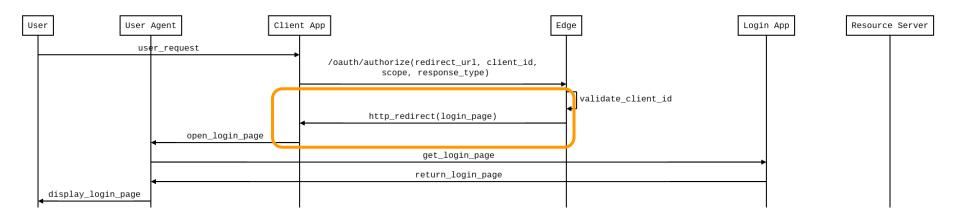




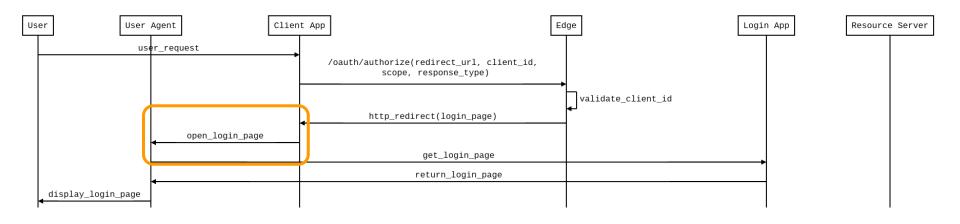




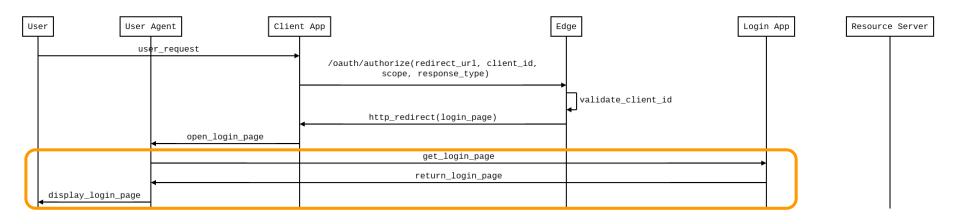




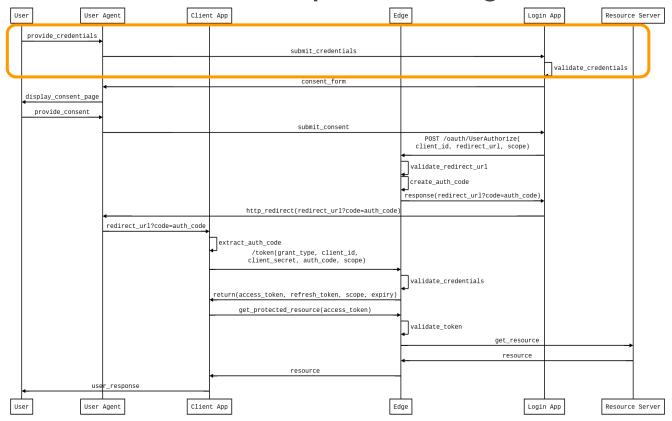




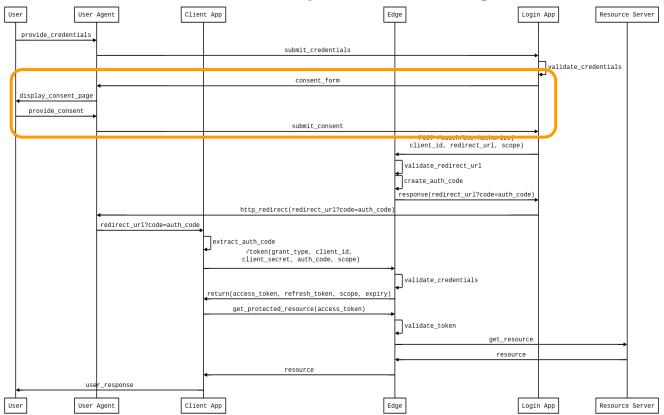




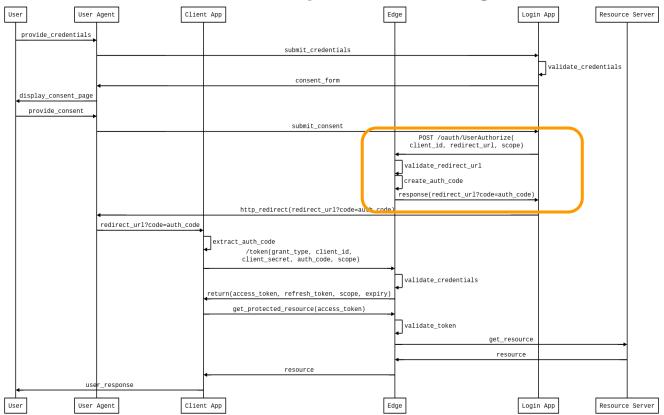




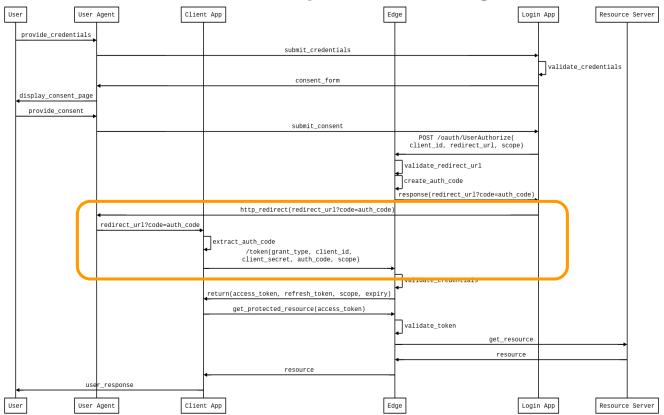




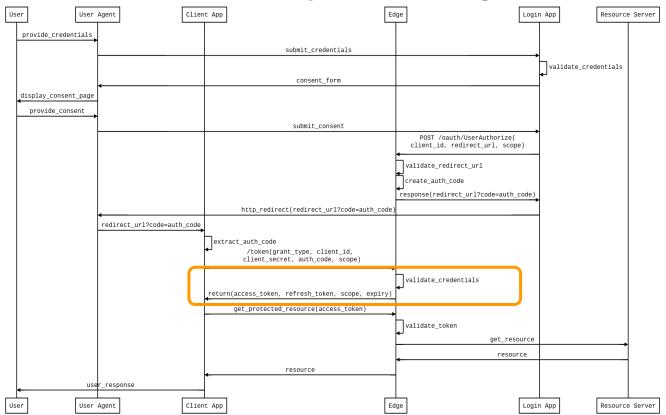




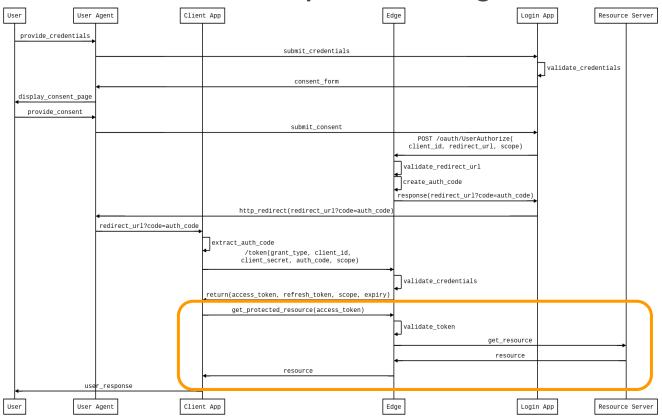














#### Generate Authorization Code



#### Generate Authorization Code



#### Exchange Authorization Code for Access Token



#### Exchange Authorization Code for Access Token



#### Exchange Authorization Code for Access Token



#### Verify OAuth Token Policy

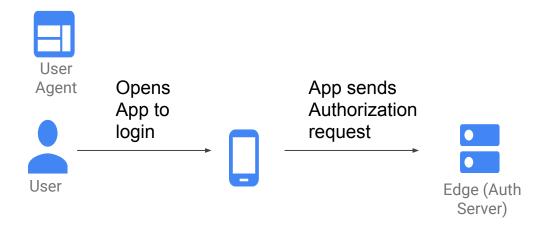


#### Verify OAuth Token Policy

```
curl -H "Authorization: Bearer {access_token}"
http://myorg-test.apigee.net/v1/cc/oauth_cc_weather
/forecastrss?w=12797282
```



## apigee Thank You





Apigee Edge User **Client Application Authorization Server** Validates the client ID and the Opens mobile application Mobile application sends authorization request to redirect URI in the request Apigee Edge



User	User Agent	Client Application	Apigee Edge
User prompted to login	Opens the login page	Accepts response and opens a web browser	Responds with a redirect request



# Login Authenticate user credentials and respond with consent web page Displays Consent Page





Provides consent/allows
application to access their
data

Authentication Server

Apigee Edge

Validates the client ID and the redirect URI in the request and generates authorization code











Client Application	User Agent	Authentication Server	Apigee Edge
Extract the authorization code	Forwards request to Mobile application	Forwards redirect to user's agent	Responds with auth code included in URI



**Client Application** 

Apigee Edge

Sends request for access token and include auth code

Validate auth code and generate access token











