

Edge Security OAuth - Authorization Code

OAuth grants
An OAuth Grant is a credential representing the resource owner's authorization. More often than not, we tend to think of grants in terms of the process used to obtain an access token.

	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	Very, and potentially insecure as well

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Authorization code grant type

Resources participating in authorization code grant type

End user

Client application

User agent

Edge - generating and validating token

Authentication server - to validate the credentials

Backend API resource

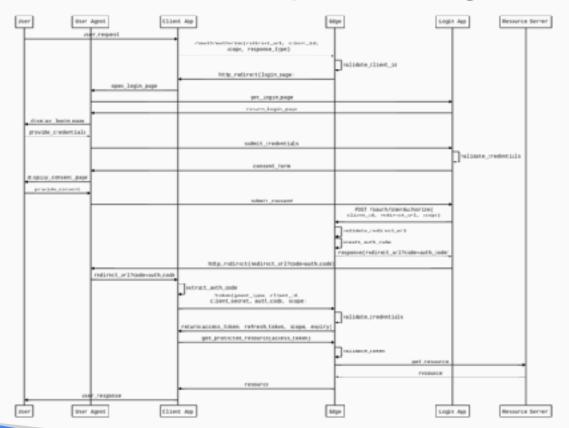
Resource owner is involved, typically owned by user and requesting application is untrusted

Very complex to implement compared to client credentials or password grant type

More secure than password grant type

Refresh token generated along with bearer token

Authorization code - Sequence diagram



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Generate authorization code

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Exchange authorization code for access token

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Verify OAuth token policy

The OAuthV2 policy's *VerifyAccessToken* operation will validate the access token for subsequent requests for all grant types.

Set the access token as the bearer token in the authorization header of the http request.

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

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THANK YOU