Implement Azure Security

Identity Provider

Active Directory

app

app

Azure Active Directory

Azure resources

RBAC

Azure AD

Authentication

Role-based access control

Subscription

Resource Group

Storage Account
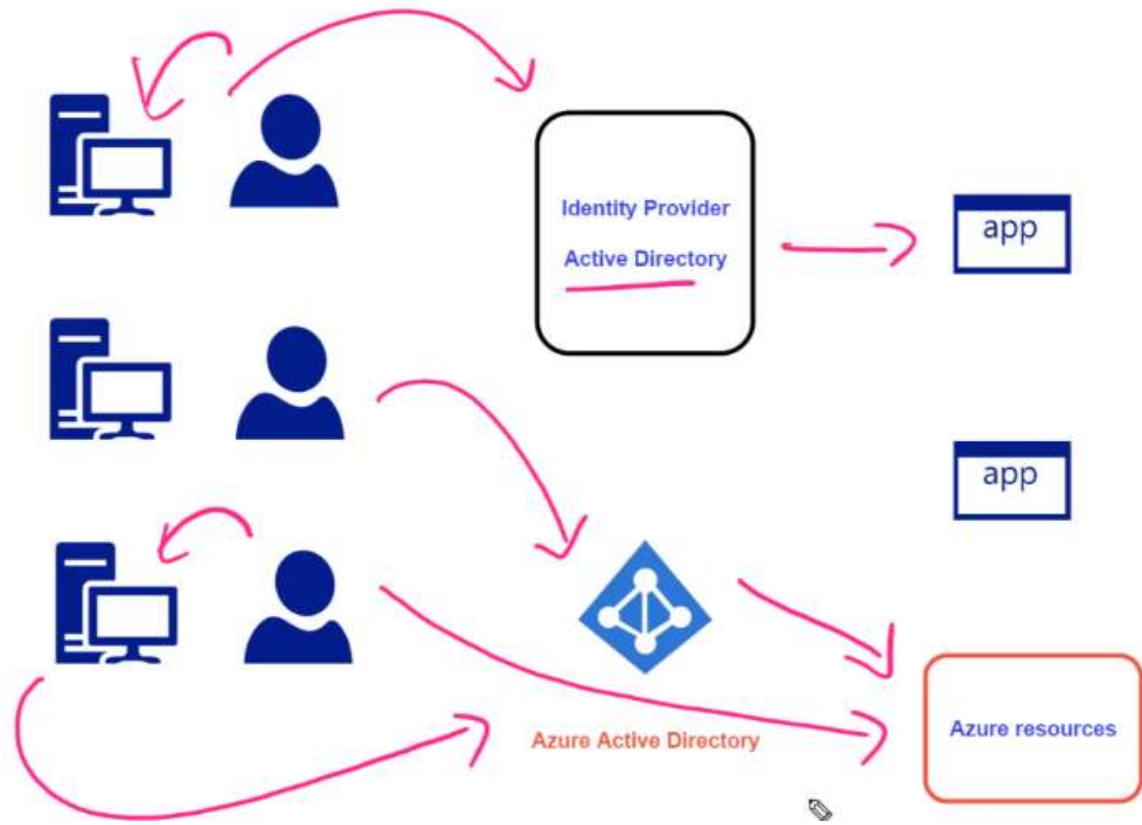
Authorization

Introduction to Application Objects

Identity provider

Azure Storage Accounts

Azure Active Directory

Authorization   Role-based access control

Authentication

app

Application Object

User permissions

Microsoft Identity platform
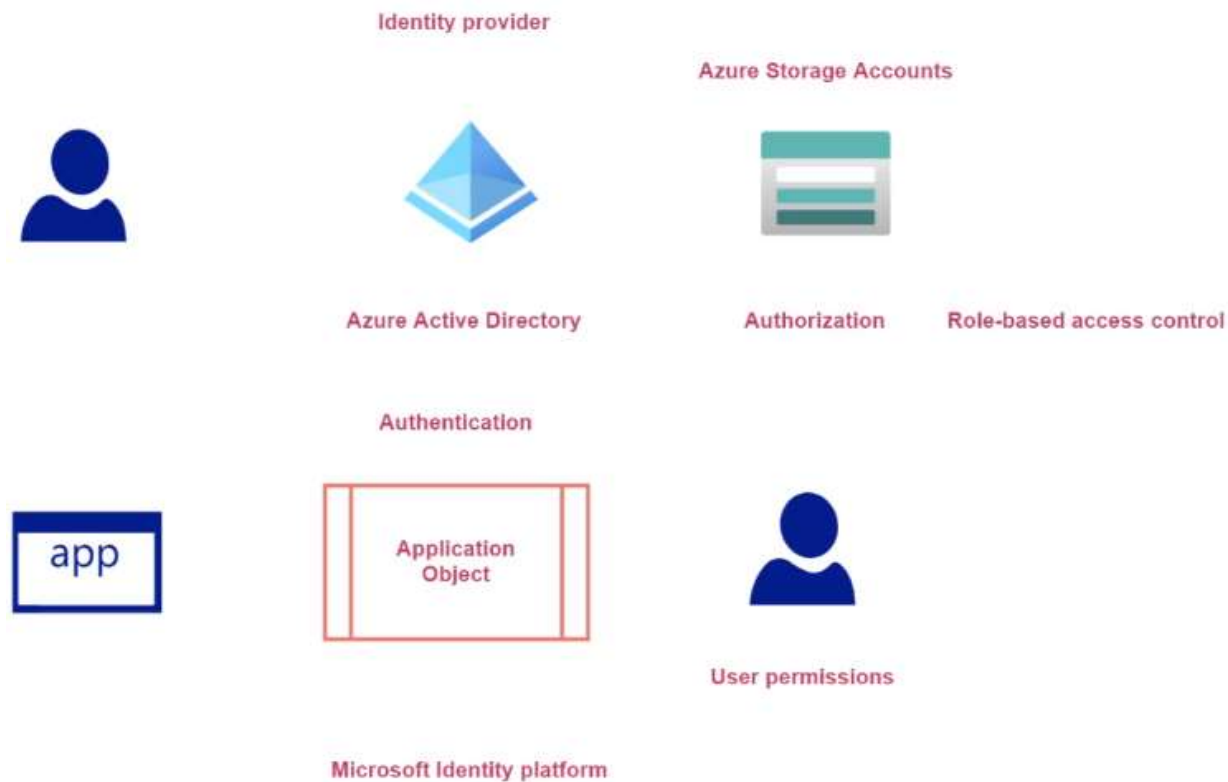
The platform helps to build applications that users and customers can sign in using their Microsoft identities or social accounts

Authentication and Authorization

Authentication

The process of proving that you are who you say you are

Azure Active Directory

Identity provider

Authorization

Resource

Granting access to the authenticated user to access the resource

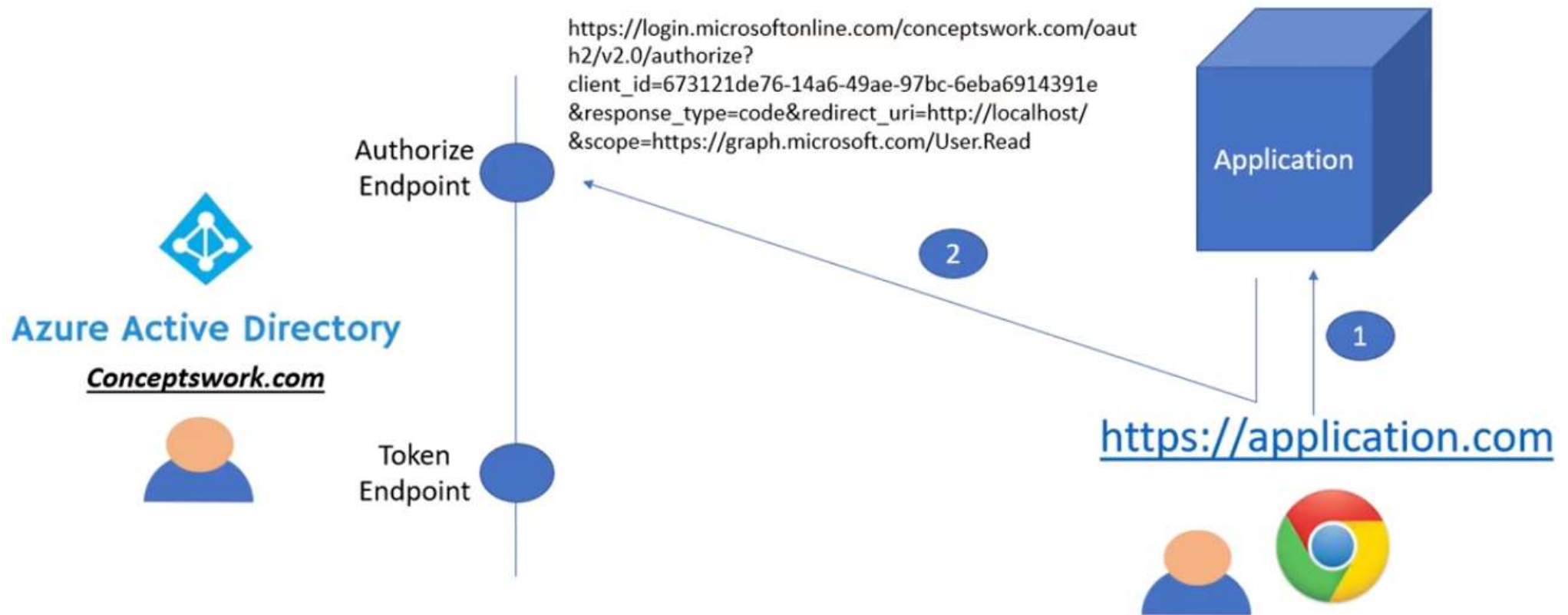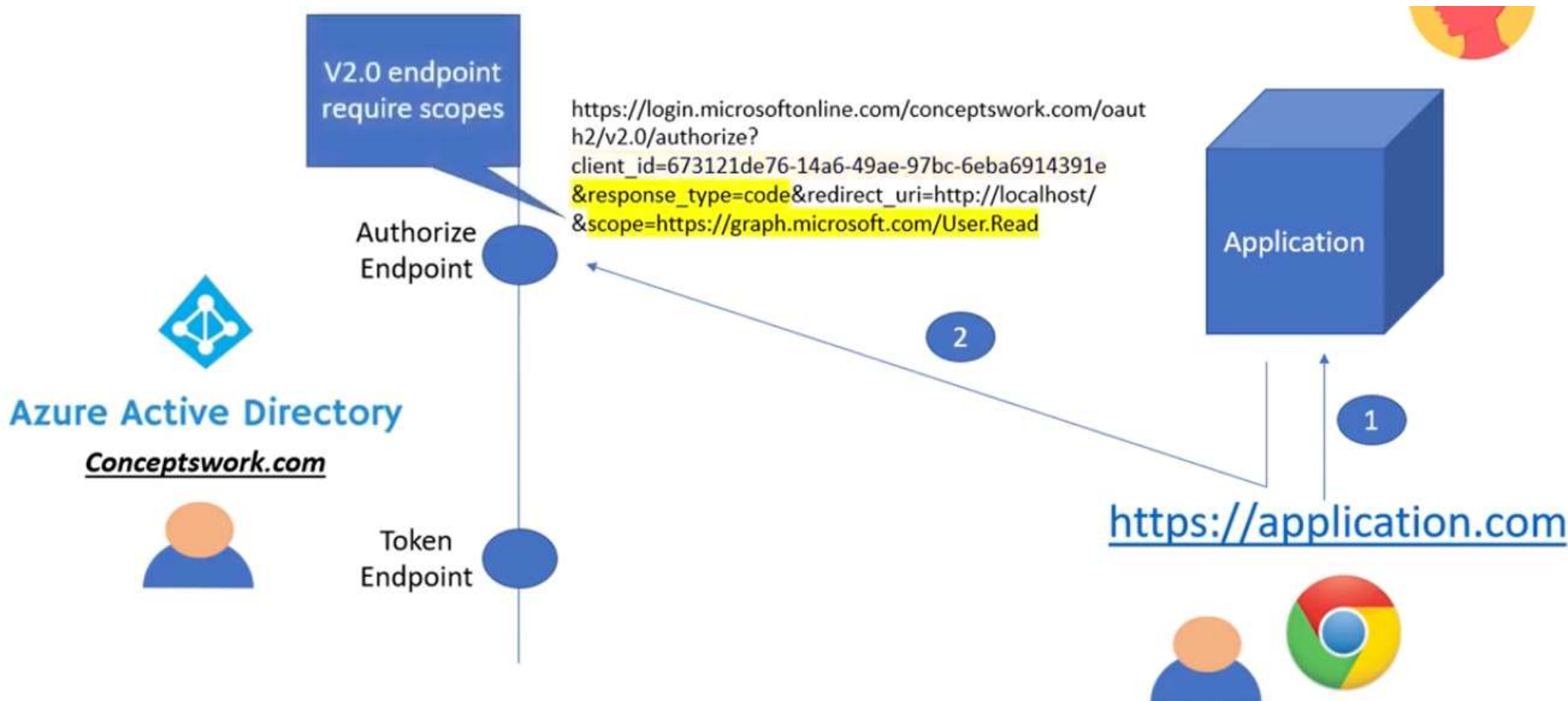**Azure Storage Account**

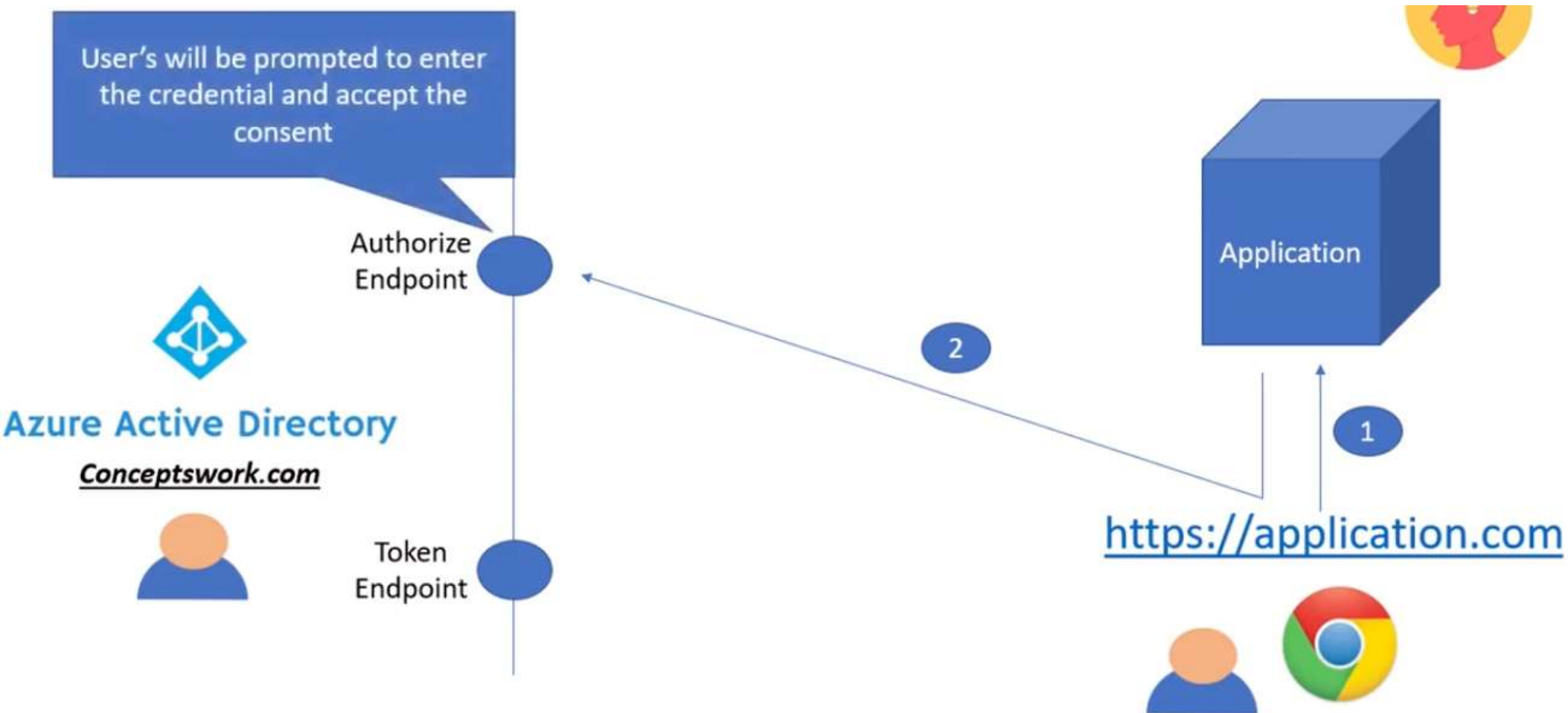# OAuth 2.0
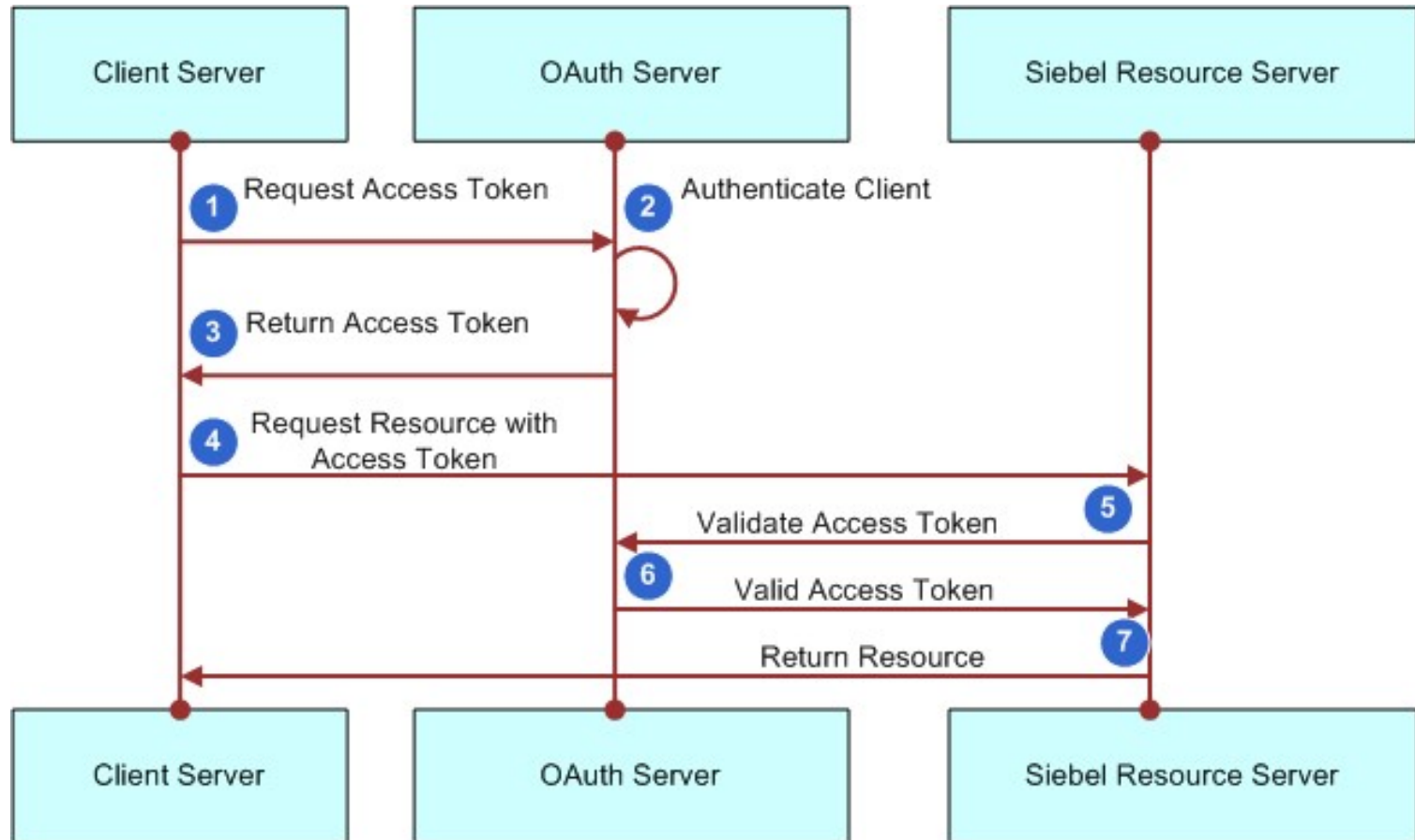
OAuth Review

- OAuth 2.0 Authorization
  - Standard Protocol for Authorization
  - It's about getting access token
  - Access token has all details about the user
- Open ID Connect
  - Layer built on OAuth 2.0
  - Allows the verification of identity of the user
- Different Grant Type
  - Client Credentials
    - Used to obtain an access token outside of the context of the user
  - Authorization Code flow
    - More secure
    - 2 Step Process
    - First step: Browser gets the authorization code from authorization server (On Browser)
    - Second Step: Exchange for an access token with authorization server (Backend)

Authorization Code Flow

Gt Authorization Code

V2.0 endpoint require scopes

https://login.microsoftonline.com/conceptswork.com/oauth2/v2.0/authorize?
client_id=673121de76-14a6-49ae-97bc-6eba6914391e
&response_type=code&redirect_uri=http://localhost/
&scope=https://graph.microsoft.com/User.Read

Authorize Endpoint

Token Endpoint

Azure Active Directory

Conceptswork.com

Application

2

1

https://application.com
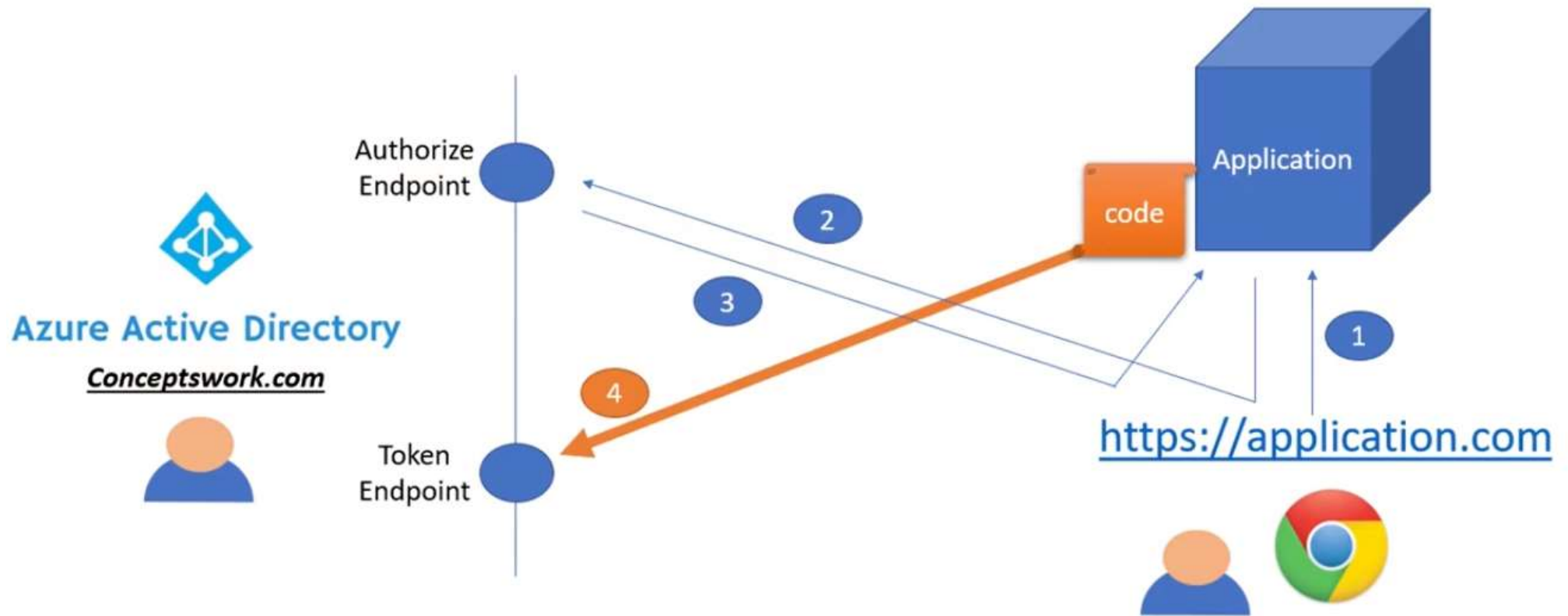
Get Access Token

Get Access Token

POST
https://login.microsoftonline.com/conceptswork.com/oauth2/v2.0/authorize?
client_id=6731de76-14a6-49ae-97bc-6eba6914391e
&scope=https://graph.microsoft.com/User.Read
&code=OAAABAAAAiL9Kn2Z27UubvWFPbm0gLWQJVzCTE9
UkP3pSx1aXxUjq3n8b2JRLk4OxVXr...
&redirect_uri=https://localhost/
&grant_type=authorization_code
&client_secret=JqQX2PNo9bpM0uEihUPzyrh

Get Access Token