

authorization information. Unlike access tokens, refresh tokens are intended for use only with authorization servers and are never sent to resource servers.

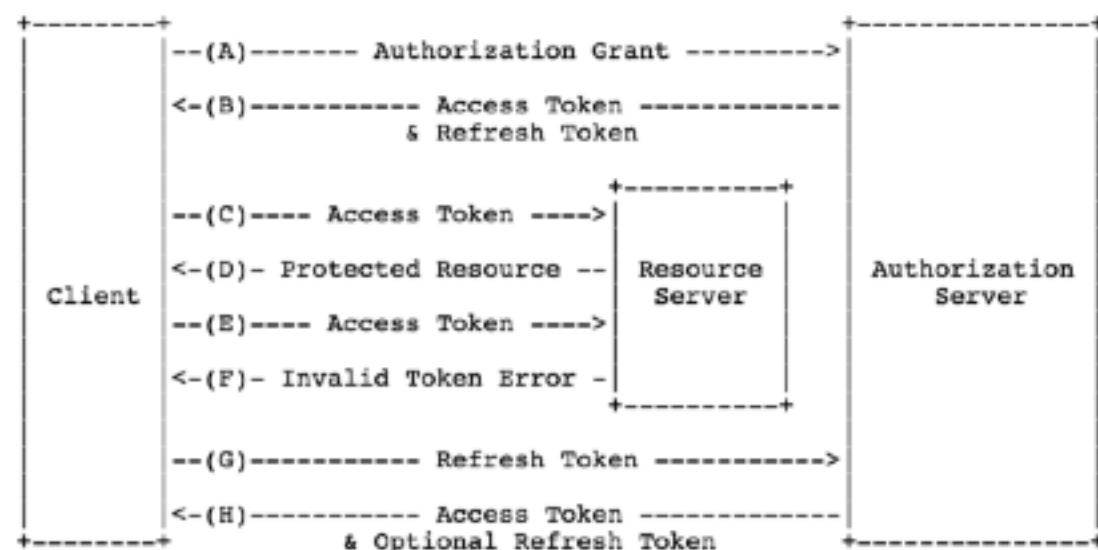
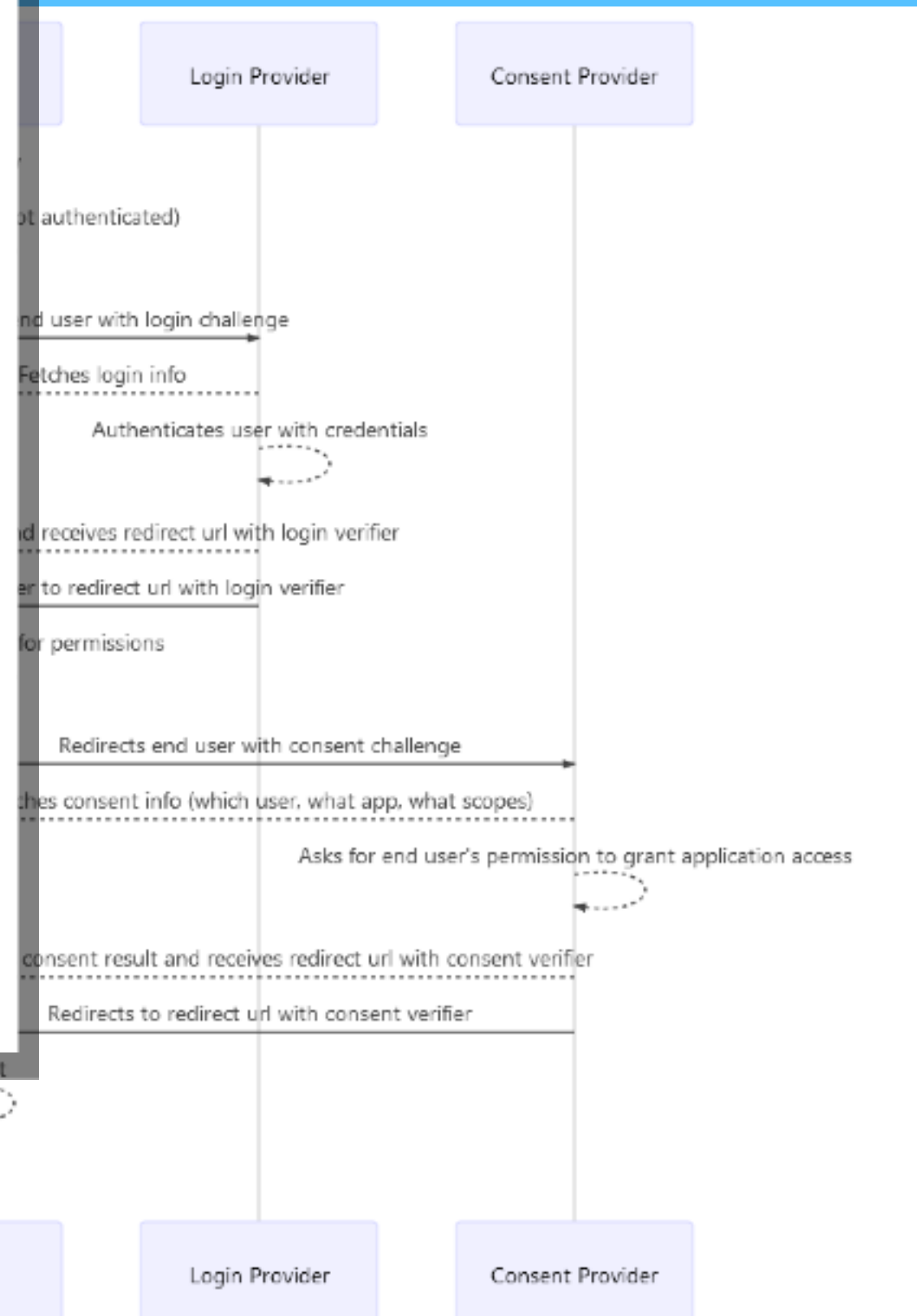


Figure 2: Refreshing an Expired Access Token

The flow illustrated in Figure 2 includes the following steps:

- (A) The client requests an access token by authenticating with the authorization server and presenting an authorization grant.
- (B) The authorization server authenticates the client and validates the authorization grant, and if valid, issues an access token and a refresh token.
- (C) The client makes a protected resource request to the resource server by presenting the access token.
- (D) The resource server validates the access token, and if valid, serves the request.
- (E) Steps (C) and (D) repeat until the access token expires. If the client knows the access token expired, it skips to step (G); otherwise, it makes another protected resource request.
- (F) Since the access token is invalid, the resource server returns an invalid token error.



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