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Developers   ⌄

Oauth2TokenExchangeHandler Class ☰

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Oauth2TokenExchangeHandler Class

Use this class to create a token exchange handler that validates tokens from an external identity provider and maps the token's subject to a Salesforce user during the OAuth 2.0 token exchange flow. The handler can also be used to create users by setting up a new User object and returning to Salesforce for automatic insertion.

Namespace

Auth

Usage

See Token Exchange Handler Validation and Subject Mapping.

- **Oauth2TokenExchangeHandler Methods**

Oauth2TokenExchangeHandler Methods

The following are methods for `Oauth2TokenExchangeHandler`.

- **getUserForTokenSubject(networkId, result, canCreateUser, appDeveloperName, appType)**
  Finds the subject defined in the external identity provider's token so that it can be mapped to a Salesforce subject.

- **validateIncomingToken(appDeveloperName, appType, incomingToken, tokenType)**
  Validates an access token, refresh token, ID token, SAML 2.0 assertion, or JWT passed from an external identity provider during the OAuth 2.0 token exchange flow.

getUserForTokenSubject(networkId, result, canCreateUser, appDeveloperName, appType)

Finds the subject defined in the external identity provider's token so that it can be mapped to a Salesforce subject.

Signature

```
public User getUserForTokenSubject(Id networkId, Auth.TokenValidationResult result, Boolean
canCreateUser, String appDeveloperName, Auth.IntegratingAppType appType)
```

Parameters

networkId

Type: Id

The identifier for the Salesforce user, if one exists.

result

Type: Auth.TokenValidationResult

The result of the token validation performed by the `validateIncomingToken` method in the Auth.Oauth2TokenExchangeHandler class.

inserts the user into this object.

appDeveloperName

Type: String

The developer name of the Salesforce connected app or external client app that's being used integrate your app with Salesforce.

appType

Type: Auth.IntegratingAppType

Specifies whether your app is integrated with Salesforce as a connected app or as an external client app.

Return Value

Type: User

Returns a User object with the user information obtained from the token, from Salesforce, and from callouts to the identity provider, if applicable. The User object can be an existing user reco or a new user that hasn't been inserted in the database. If it's a new user, Salesforce automatica inserts the user on behalf of the token exchange handler.

validateIncomingToken(appDeveloperName, appType, incomingToken, tokenType)

Validates an access token, refresh token, ID token, SAML 2.0 assertion, or JWT passed from an external identity provider during the OAuth 2.0 token exchange flow.

Signature

```
public Auth.TokenValidationResult validateIncomingToken(String appDeveloperName,
Auth.IntegratingAppType appType, String incomingToken, Auth.OAuth2TokenExchangeType tokenTy
```

Parameters

appDeveloperName

Type: String

The developer name of the Salesforce connected app or external client app that's being used integrate your app with Salesforce.

appType

Type: Auth.IntegratingAppType

Specifies whether your app is integrated with Salesforce as a connected app or as an external client app.

incomingToken

Type: String

The token from the external identity provider.

tokenType

Type: Auth.OAuth2TokenExchangeType

The type of token from the external identity provider. It can be an access token, a refresh toke an ID token, a SAML 2.0 assertion, or any token that's formatted as a JSON Web Token (JWT)

Return Value

Type: Auth.TokenValidationResult

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