

# Introduction

This provides **Authentication, Authorization, and User management** for web/mobile apps

There are 2 parts in Amazon Cognito: User Pools and Identity Pools

## USER POOLS

A user pool is a user directory in Amazon Cognito.

With a user pool, your users can sign in to your web or mobile app through Amazon Cognito.

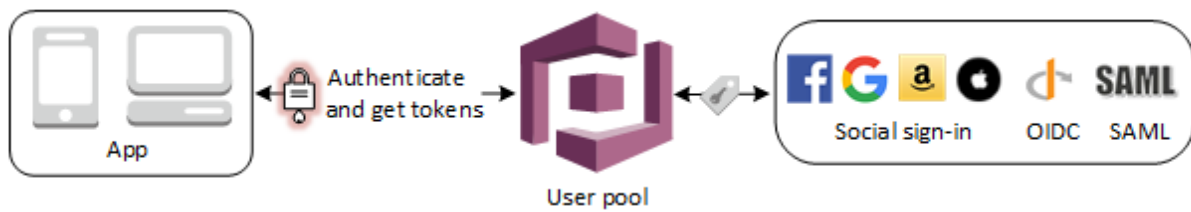
Your users can also sign in through social identity providers like Google, Facebook, Amazon, or Apple, and through SAML identity providers.

Whether your users sign in directly or through a third party, all members of the user pool have a directory profile that you can access through a Software Development Kit (SDK).

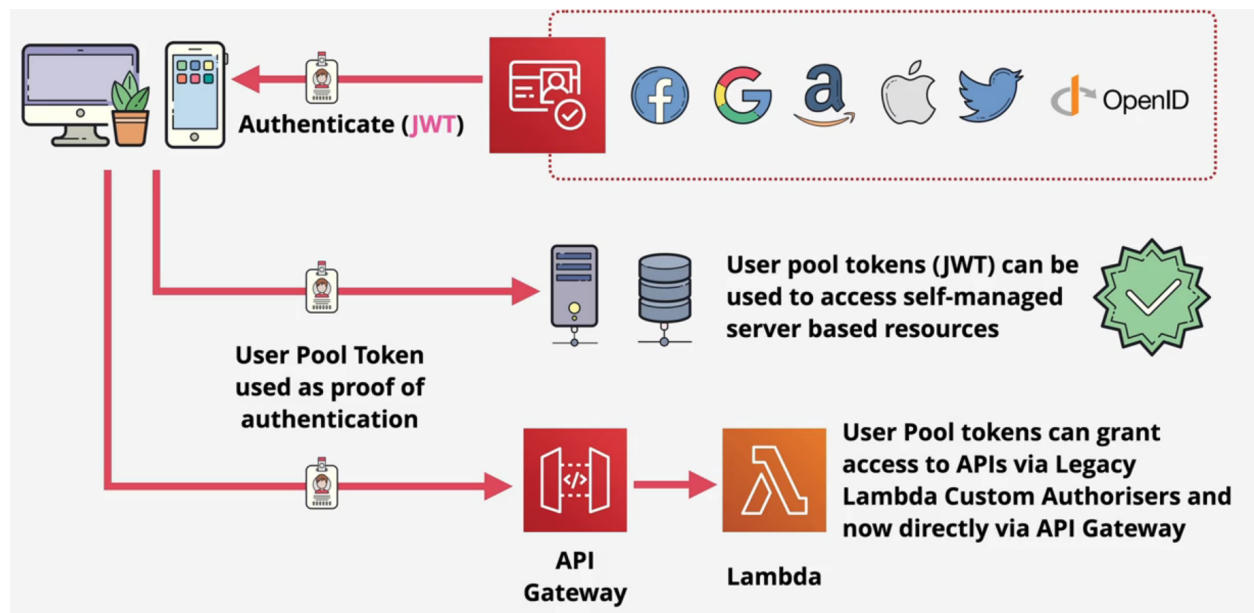
User pools provide:

- Sign-up and sign-in services.
- A built-in, customizable web UI to sign in users.
- Social sign-in with Facebook, Google, Login with Amazon, and Sign in with Apple, as well as sign-in with SAML identity providers from your user pool.
- User directory management and user profiles.
- Security features such as multi-factor authentication (MFA), checks for compromised credentials, account takeover protection, and phone and email verification.
- Customized workflows and user migration through AWS Lambda triggers.

After successfully authenticating a user, Amazon Cognito issues JSON web tokens (JWT) that you can use to secure and authorize access to your own APIs, or exchange for AWS credentials.



**REMEMBER:** Most AWS Service can't use JWT. To get Access to AWS Services you need to use Identity Pools



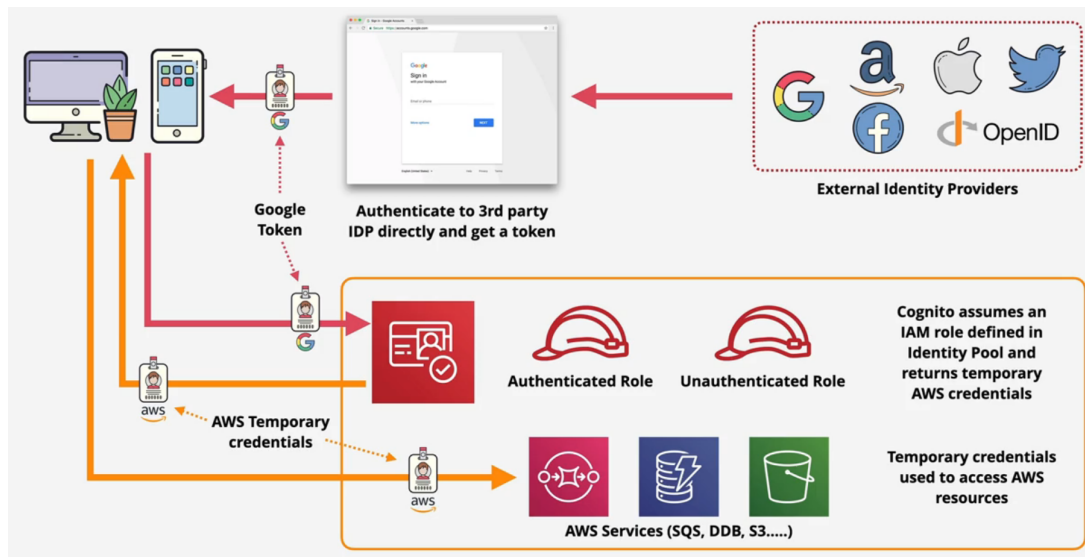
## IDENTITY POOLS

Identity pools provide AWS credentials to grant your users access to other AWS services.

Amazon Cognito identity pools (federated identities) enable you to create unique identities for your users and federate them with identity providers.

Allows you to offer access to Temporary AWS Credentials that can be used to access AWS Resources

Federated Identities - (SWAP identity token for AWS temporary Credentials. This is called Web Federation) - Google, Facebook, Twitter, SAML 2.0, and User Pool for short term AWS Credentials to access AWS Resources



## USER POOLS and IDENTITY POOLS

