SINGLE SIGN ON(SSO)

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What is single sign-on?

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What is SSO software as a service?

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01
What is single sign-on?

What is single sign-on?

Single sign-on (SSO) is an authentication method that enables users to securely authenticate with multiple applications and websites by using just one set of credentials.

Are there different types of SSO?

FIM
Refers to a trust relationship as a system that allows users at separate enterprises to use the same verification method for access to applications and other resources.

OAuth 2.0
Is a specific framework that could also be considered part of a FIM architecture. OAuth focuses on that trusted relationship allowing user identity information to be shared across the domains.

OIDC
is an authentication layer that was built on top of OAuth 2.0 to provide Single Sign-on functionality.
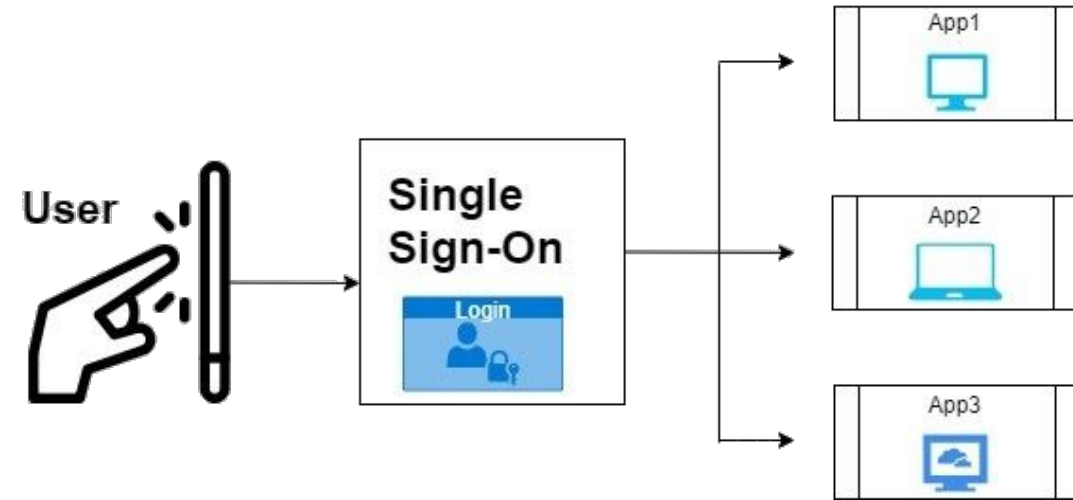
SAML
is an open standard that is also designed to provide Single Sign-on functionality.

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02

How does SSO work?
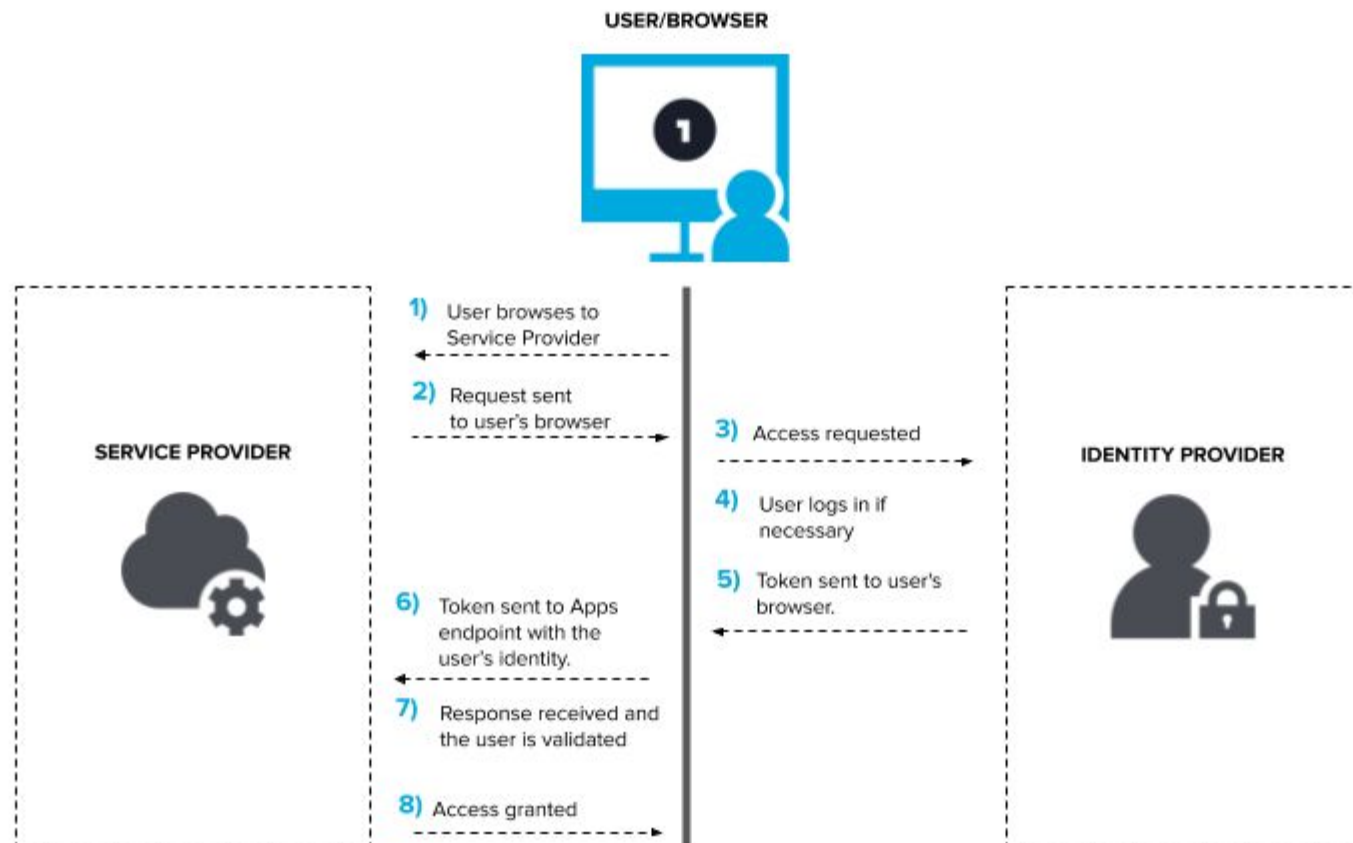
SSO Components

Identity Provider

The Identity Provider is a trusted system that provides access to other websites and applications. Aslo the user role

Service Provider

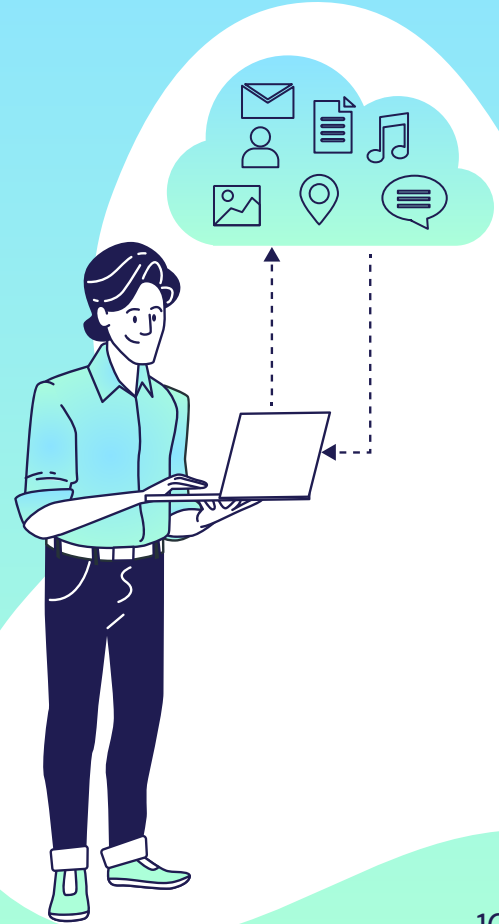A service provider provides services to the end-user.

Service Provider Initiated Workflow

USER/BROWSER

SERVICE PROVIDER

IDENTITY PROVIDER

1) User browses to Service Provider

2) Request sent to user's browser

3) Access requested

4) User logs in if necessary

5) Token sent to user's browser.

6) Token sent to Apps endpoint with the user's identity.

7) Response received and the user is validated

8) Access granted

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03
What is an SSO token?

WHAT IS AN SSO TOKEN?

collection of data or information

passed from one system to another during the SSO process. The data can simply be a user's email address and information about which system is sending the token.

Tokens must be digitally signed

for the token receiver to verify that the token is coming from a trusted source.

The certificate

that is used for this digital signature is exchanged during the initial configuration process
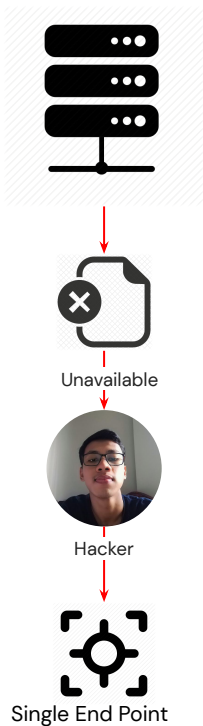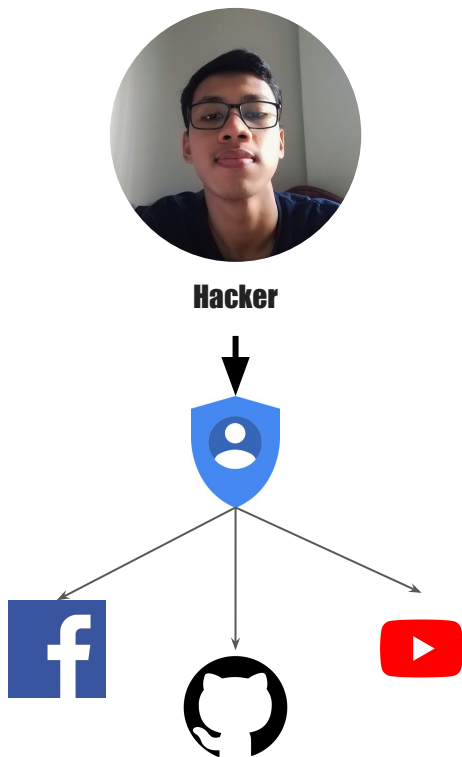
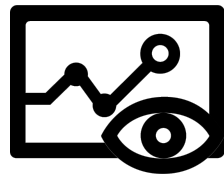# Is SSO Secure ?

Security Risks of SSO

Double-Edged Sword.

Security Benefits of SSO
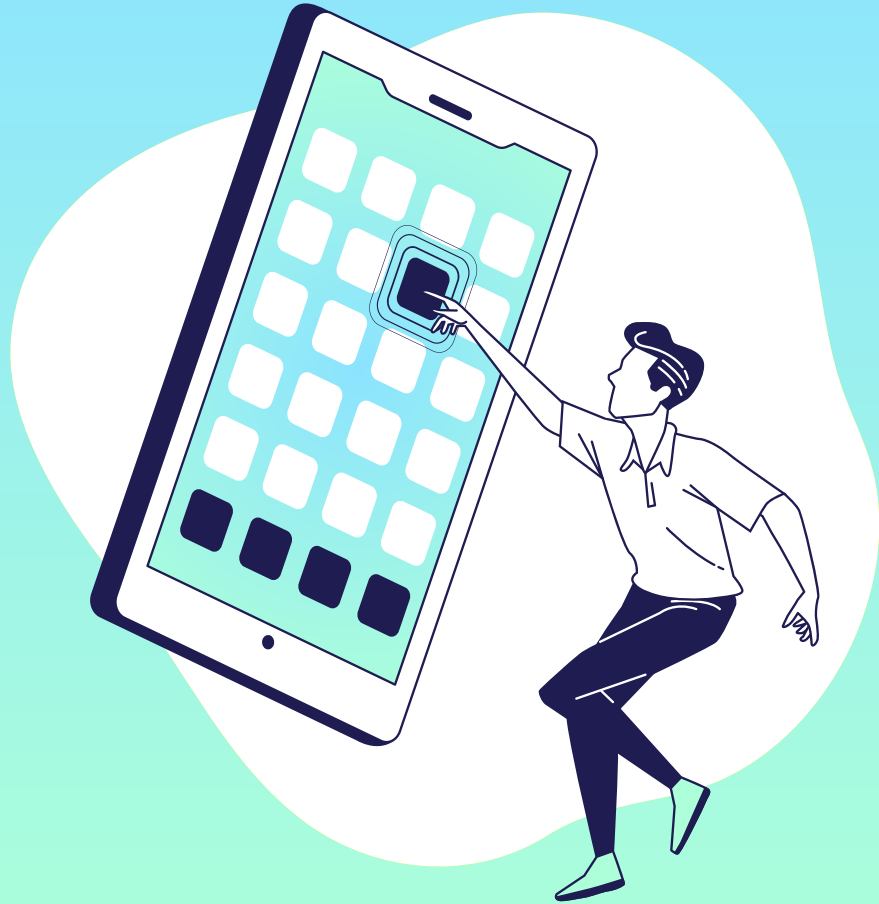
Hacker

Unavailable

Hacker

Single End Point

Strong Password Policies

SSO systems are secured in encrypted storage

SSO helps in user monitoring

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05

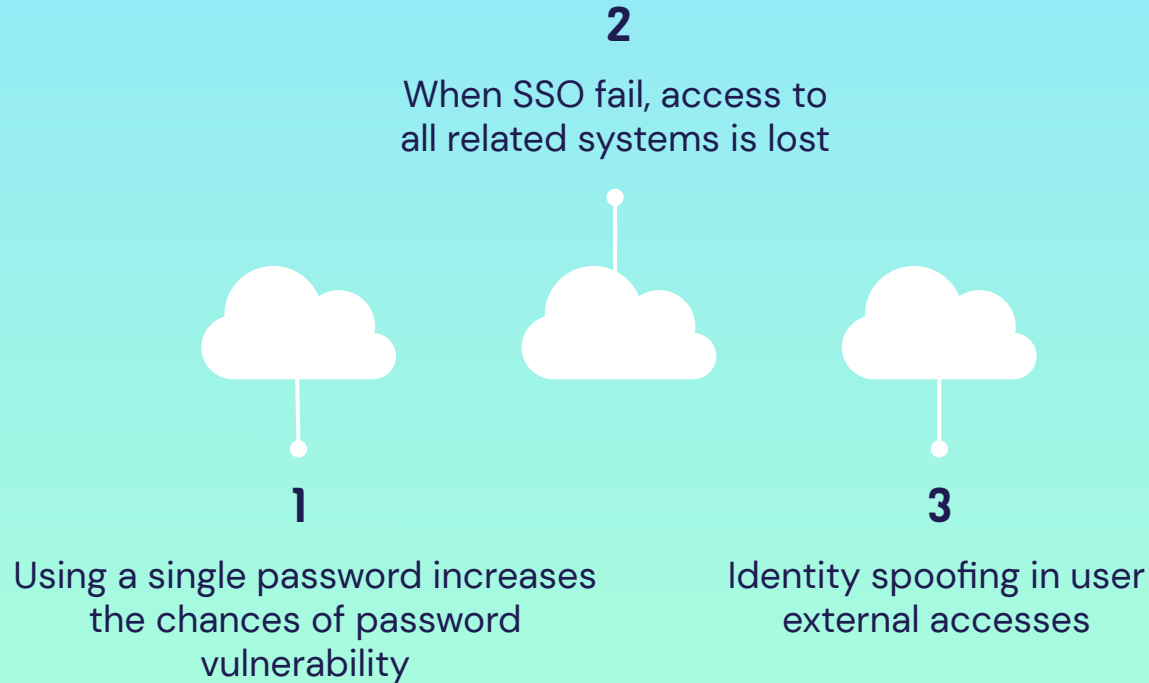# Advantage & Disadvantage

Advantages

2

Reduces the load of
memorising several passwords

1

Streamlines user access
to their application

3

Easy to implement and
connect to new data sources

Disadvantage

2

When SSO fail, access to
all related systems is lost

1

Using a single password increases
the chances of password
vulnerability

3

Identity spoofing in user
external accesses

RESOURCES

- https://www.onelogin.com/learn/how-single-sign-on-works
- https://www.miniorange.com/single-sign-on-sso

THANKS!

Do you have any questions?

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