

ThoughtWorks®

Xi'an Security Day

从ADFS说起

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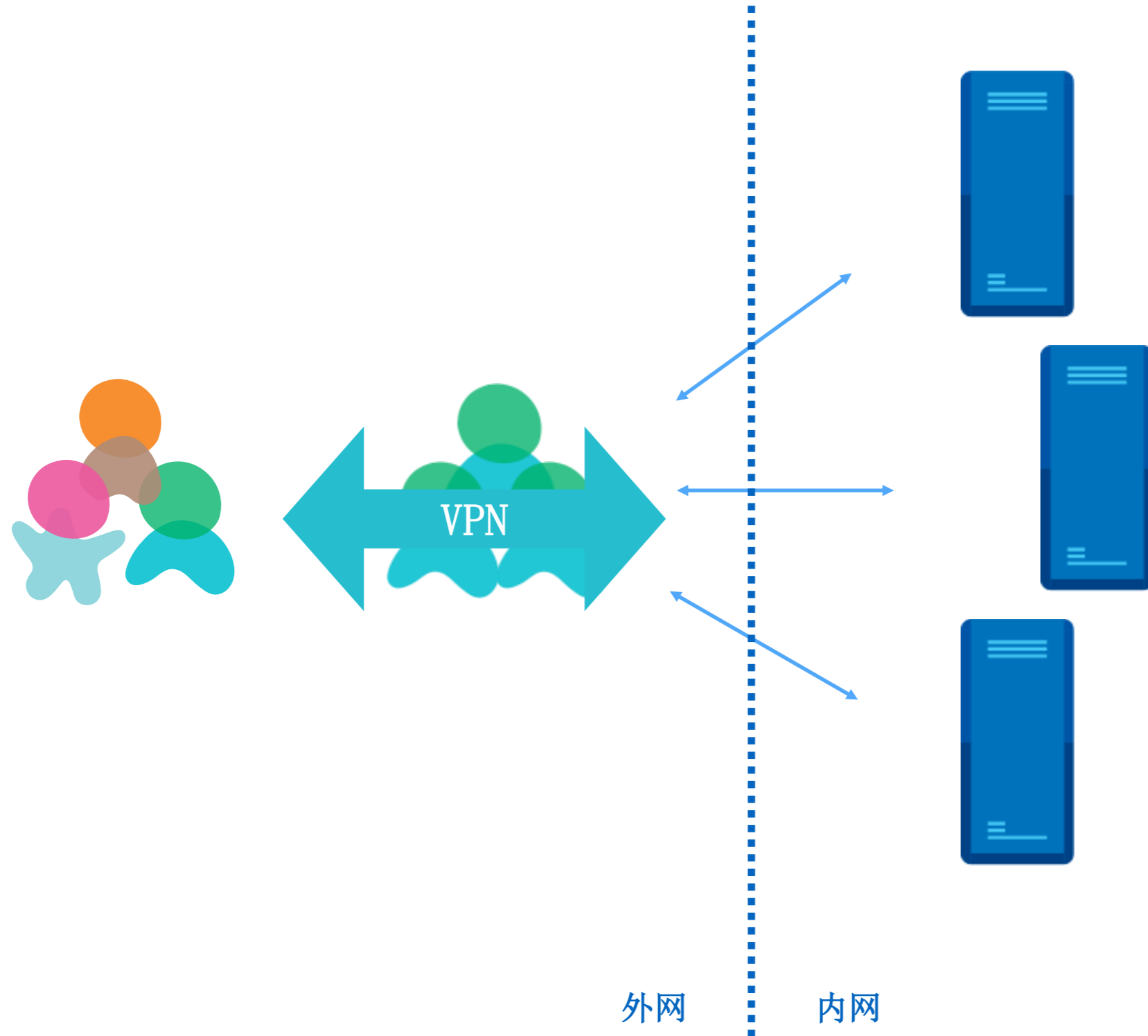
Active Directory Federation Services

活动目录联合服务

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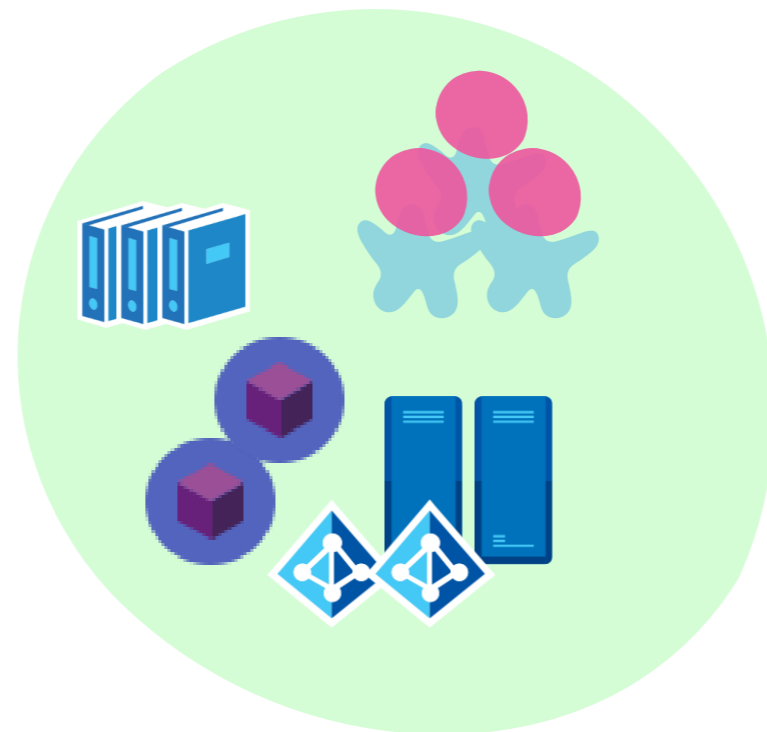
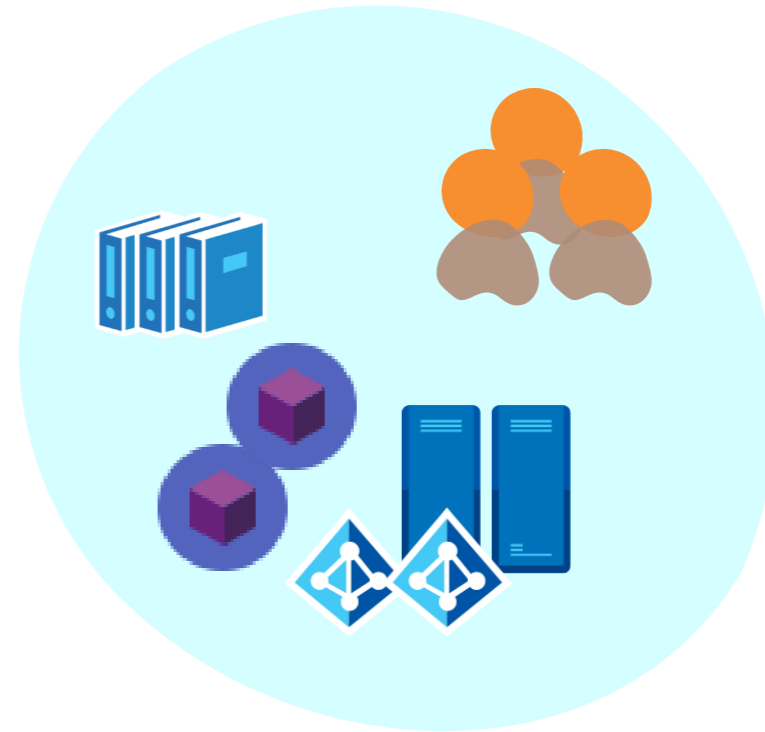
现代系统架构，业务场景带来的身份认证难题

本地环境

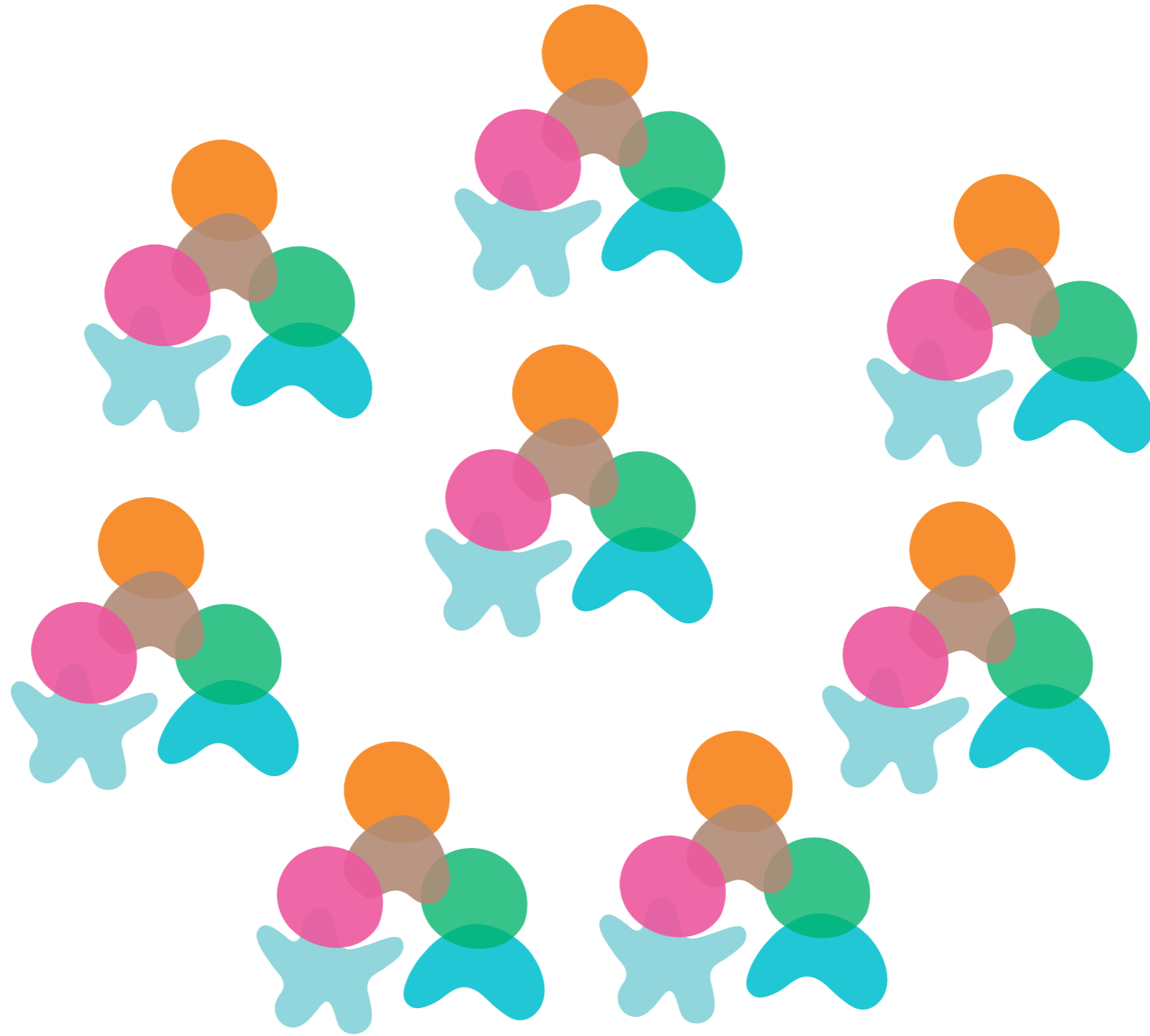




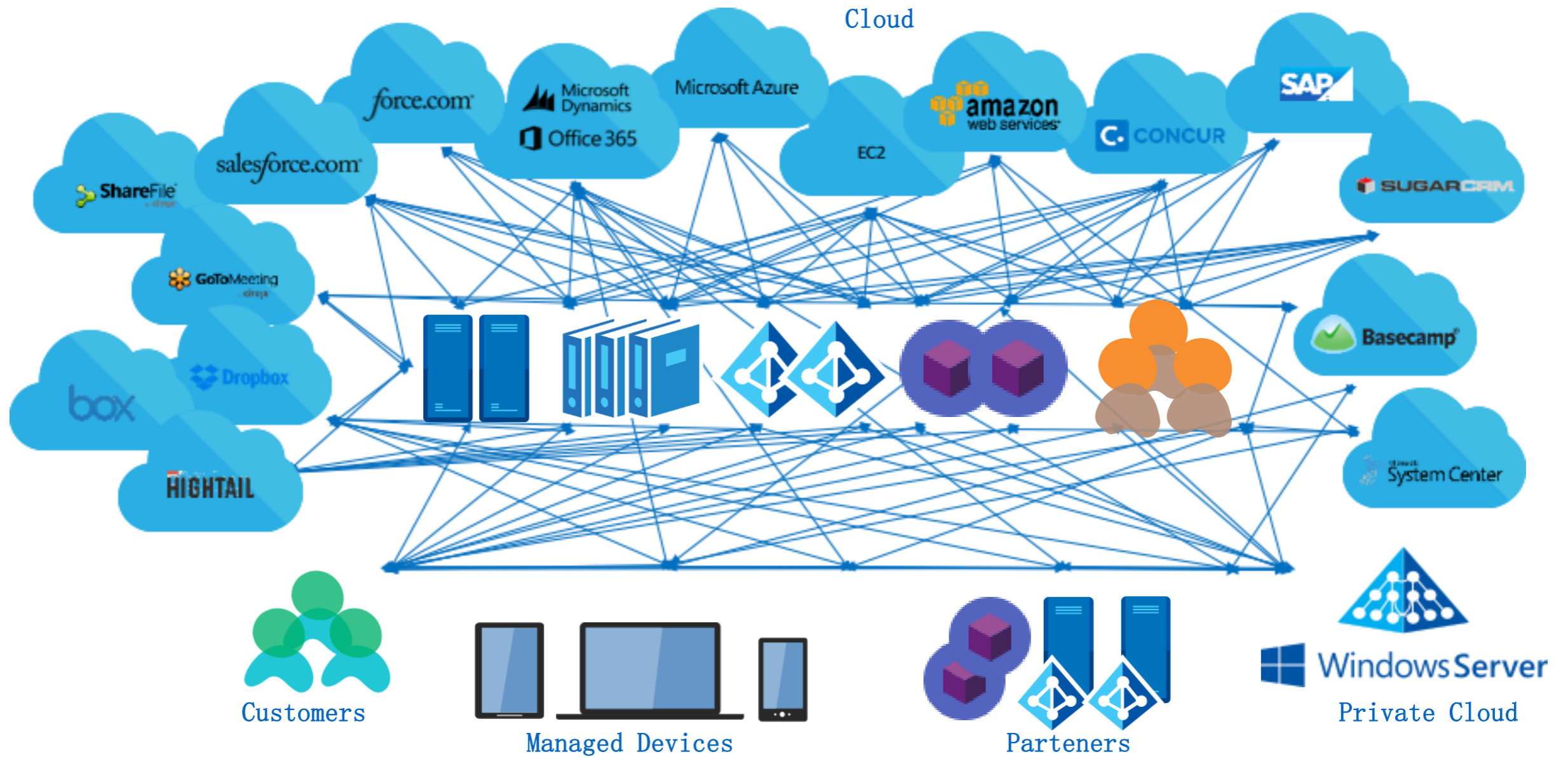
合作伙伴



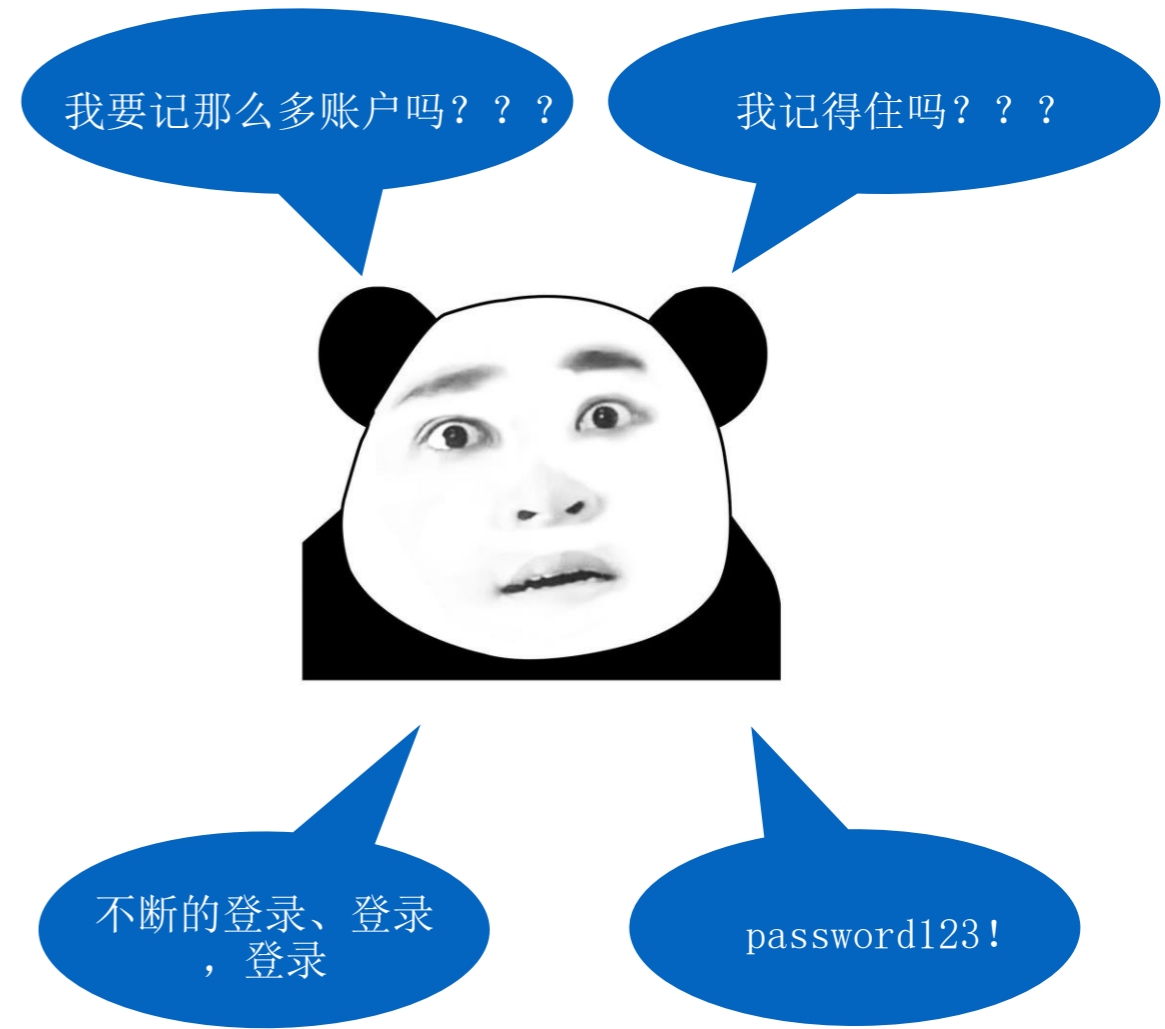
用戶



现实情况



挑战



答案

- 建立一个认证框架可以被所有应用消费，无需关注应用部署在哪里
- Identity Token 可以携带更多的用户信息
- 通过信任的合作伙伴去认证他们的用户
- 基于工业化的标准协议
- 同时支持在浏览器和Web Service

联合认证 Federation Identity

- Okta
- OpenAM
- Active Directory Federation Services

ADFS版本

■ ADFS

- ADFS 1.0 – Windows Server 2003 R2
- ADFS 1.1 – Windows Server 2008 and Windows Server 2008 R2
- ADFS 2.0 – Windows Server 2008 and Windows Server 2008 R2
- ADFS 2.1 – Windows Server 2012
- ADFS 3.0 – Windows Server 2012 R2
- ADFS4.0 – Windows Server 2016

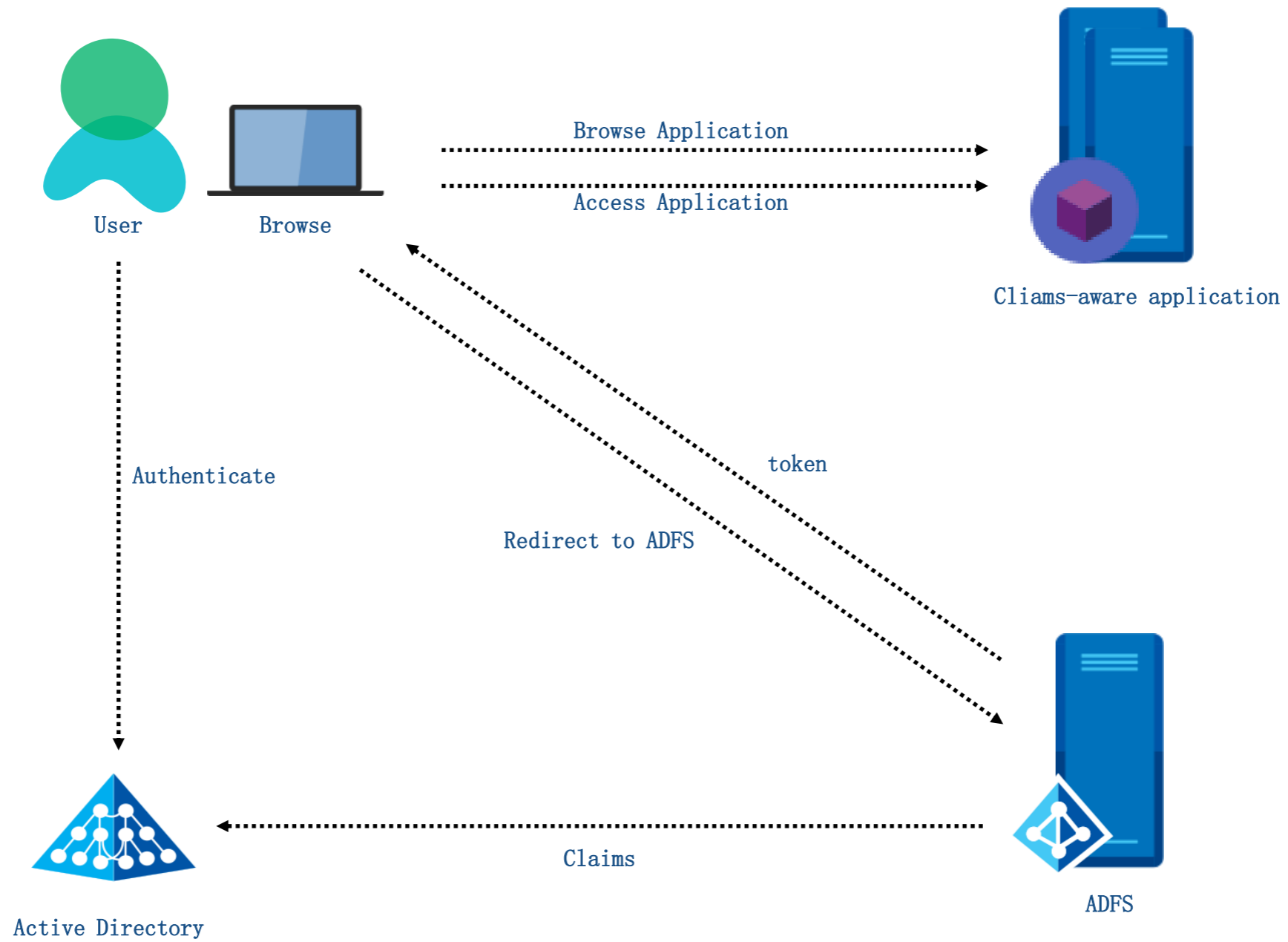
■ Azure AD

A group of four people (three men and one woman) are gathered around a table in a meeting. They are looking at documents and a laptop. The image is overlaid with a semi-transparent teal color. The text 'ThoughtWorks®' is in the top left, and 'ADFS' is in the bottom left.

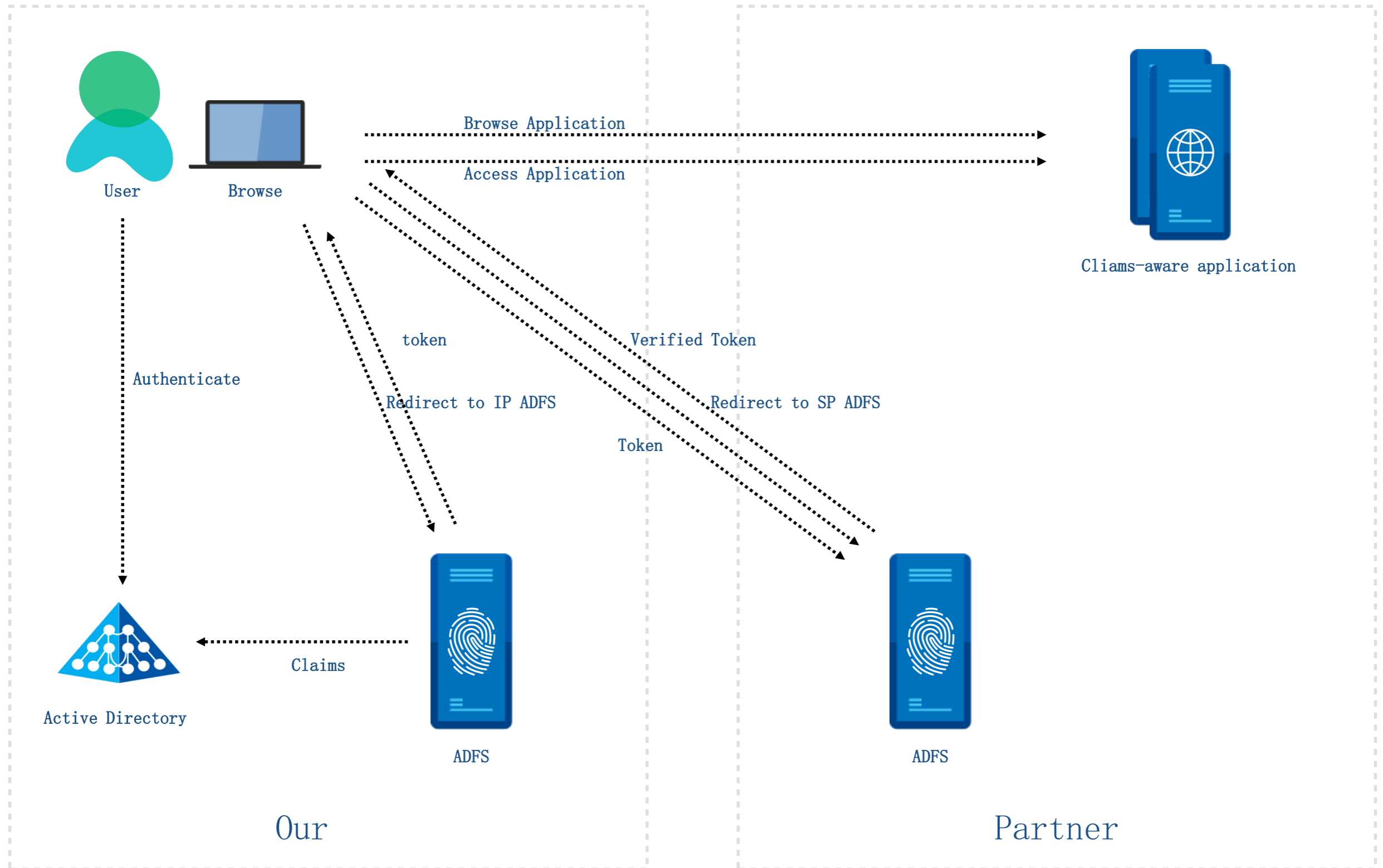
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ADFS

关键概念



关键概念



活动目录

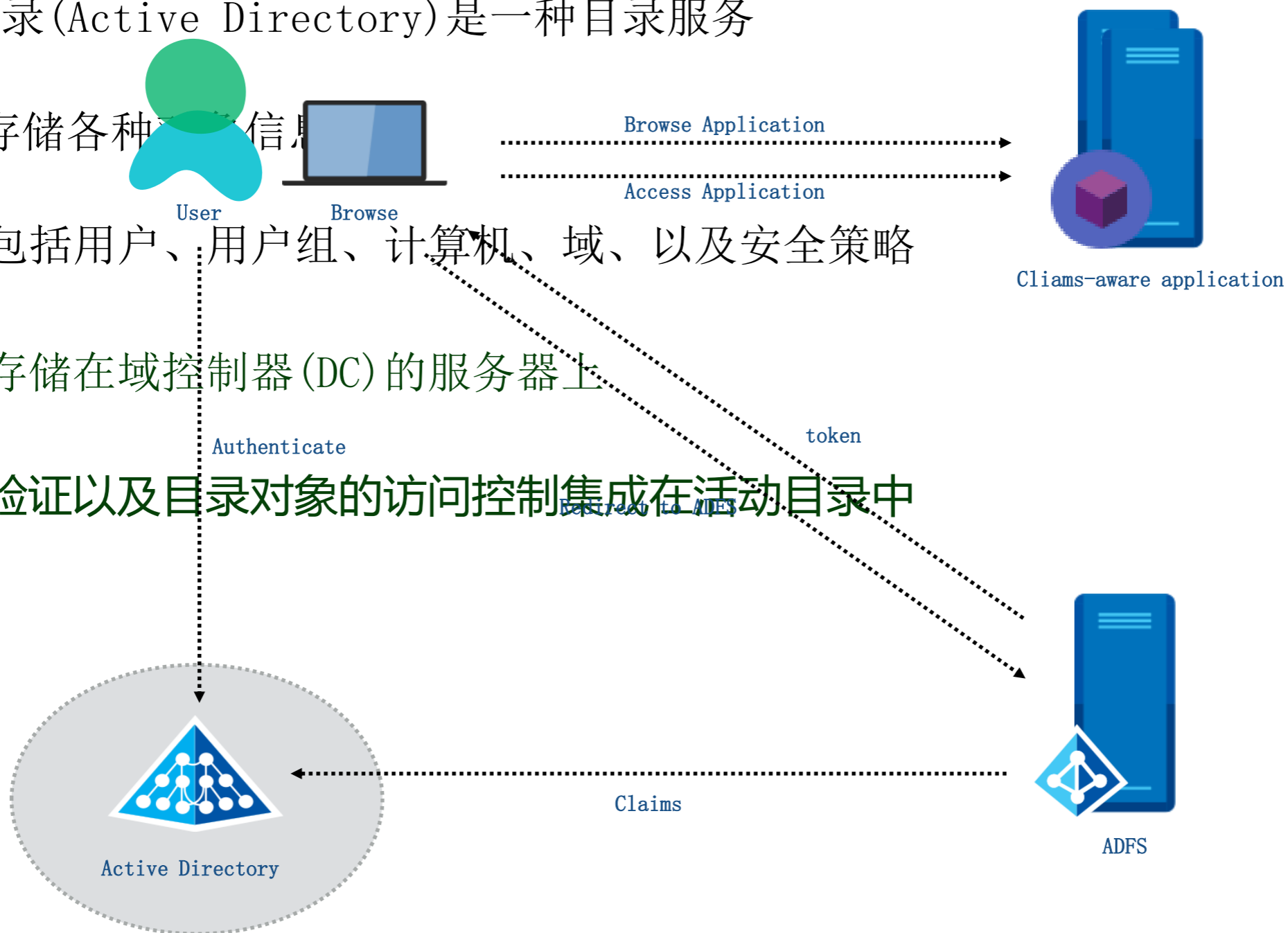
■ 活动目录 (Active Directory) 是一种目录服务

■ 目录存储各种对象信息

■ 对象包括用户、用户组、计算机、域、以及安全策略

■ 目录存储在域控制器 (DC) 的服务器上

■ 身份验证以及目录对象的访问控制集成在活动目录中

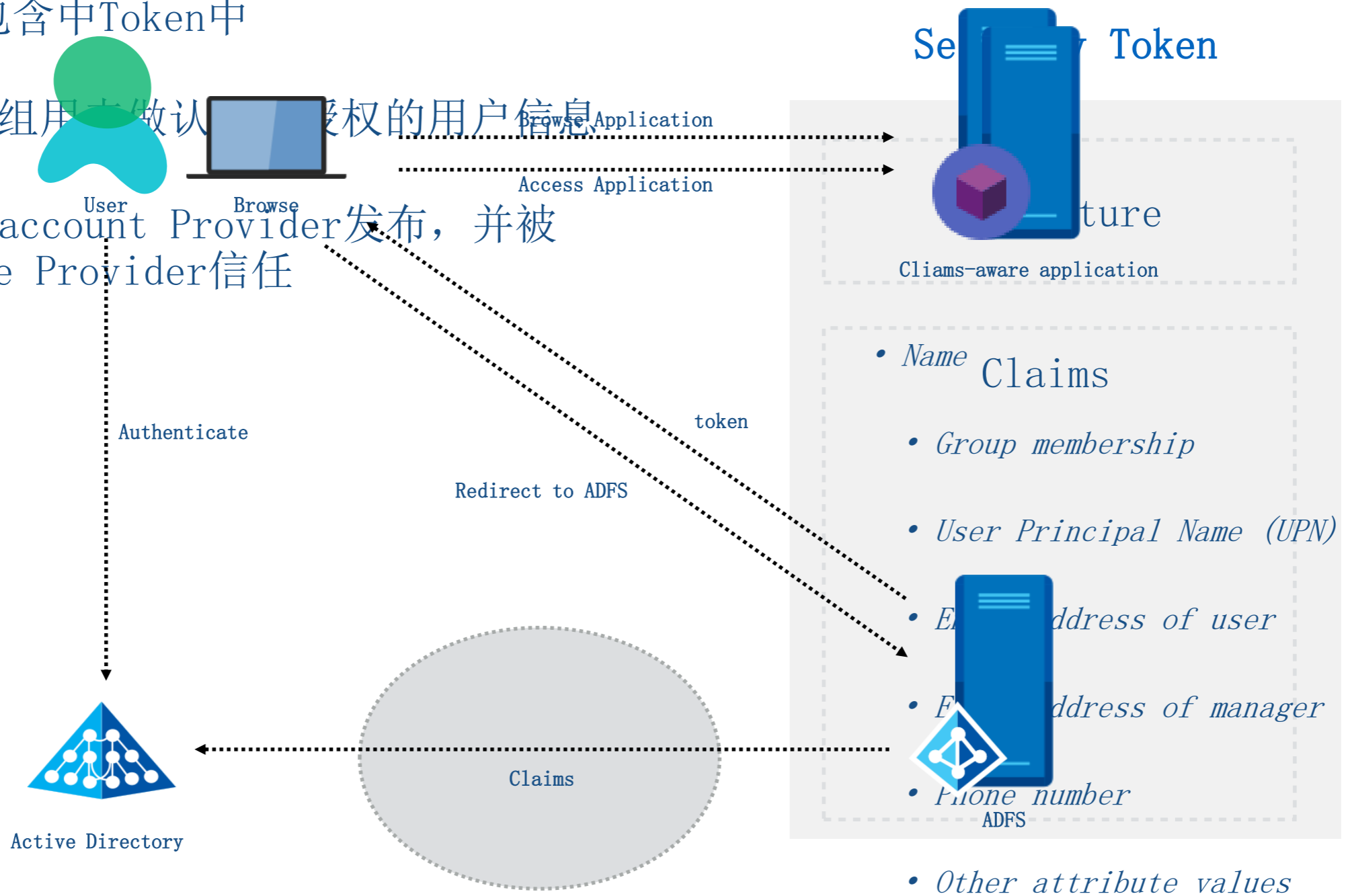


声明

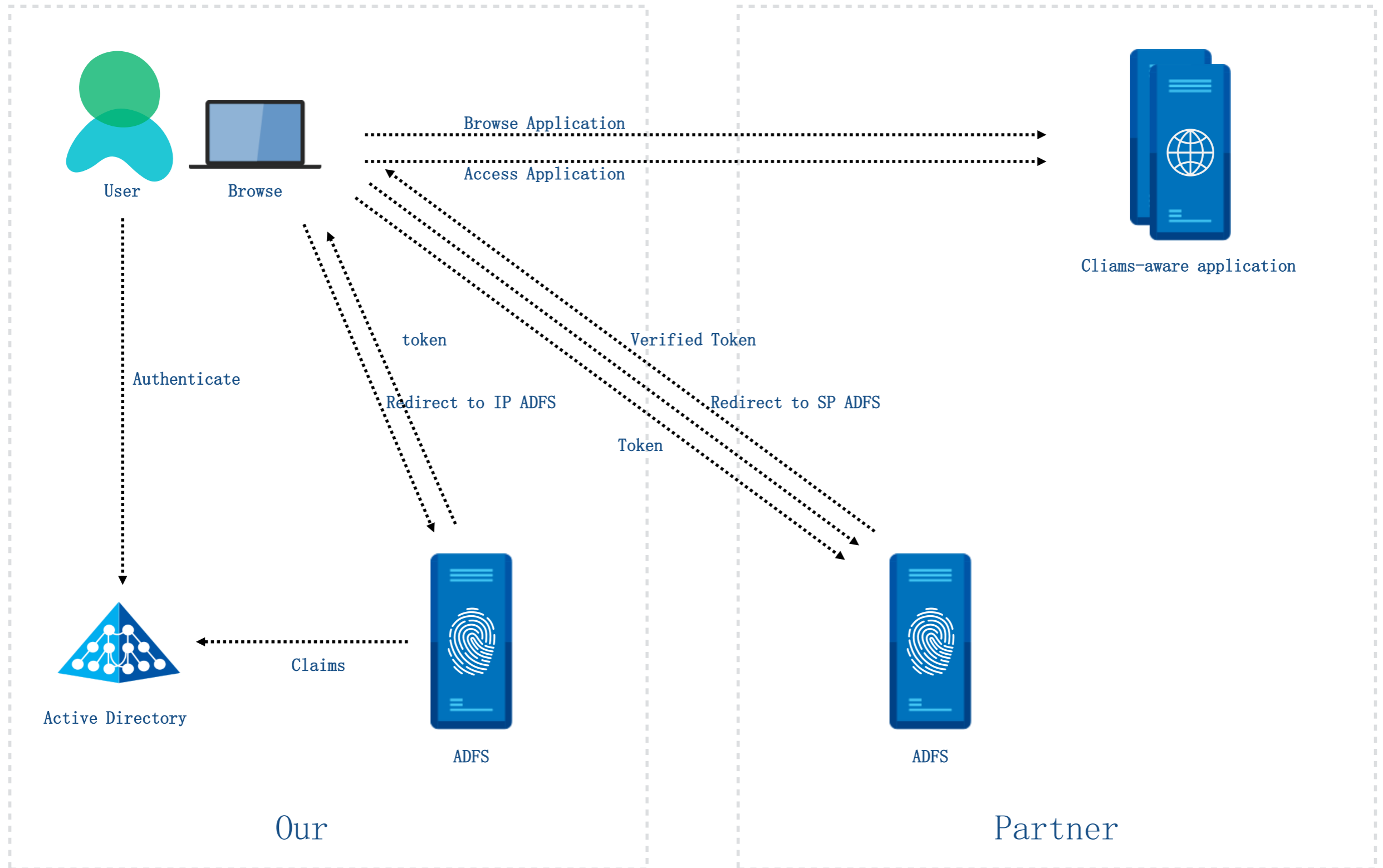
■ Claims包含Token中

■ 包含了一组用户做认证授权的用户信息

■ Claims由account Provider发布，并被Resource Provider信任



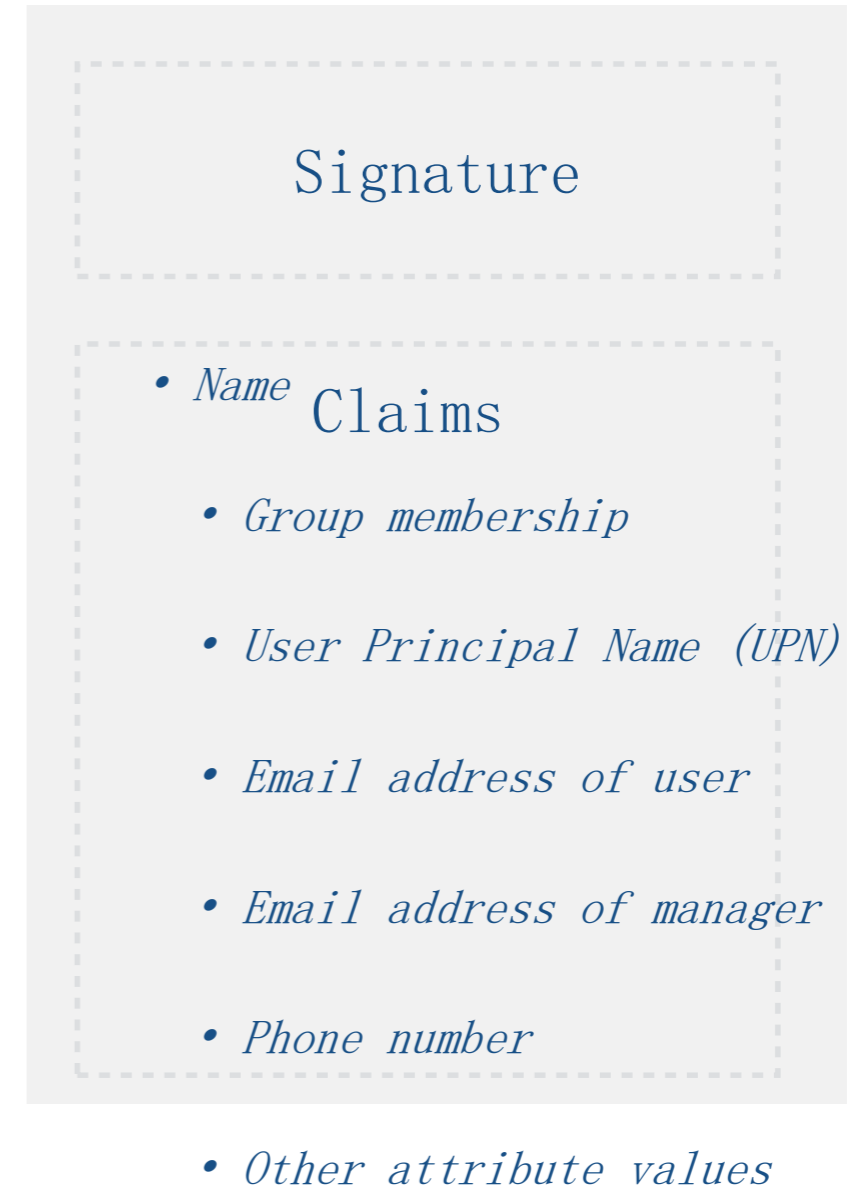
关键概念



声明

- Claims包含在Token中
- 包含了一组用来做认证和授权的用户信息
- Claims由account Provider发布, 并被Resource Provider信任
- Resource Provider根据Claims对用户授权

Security Token

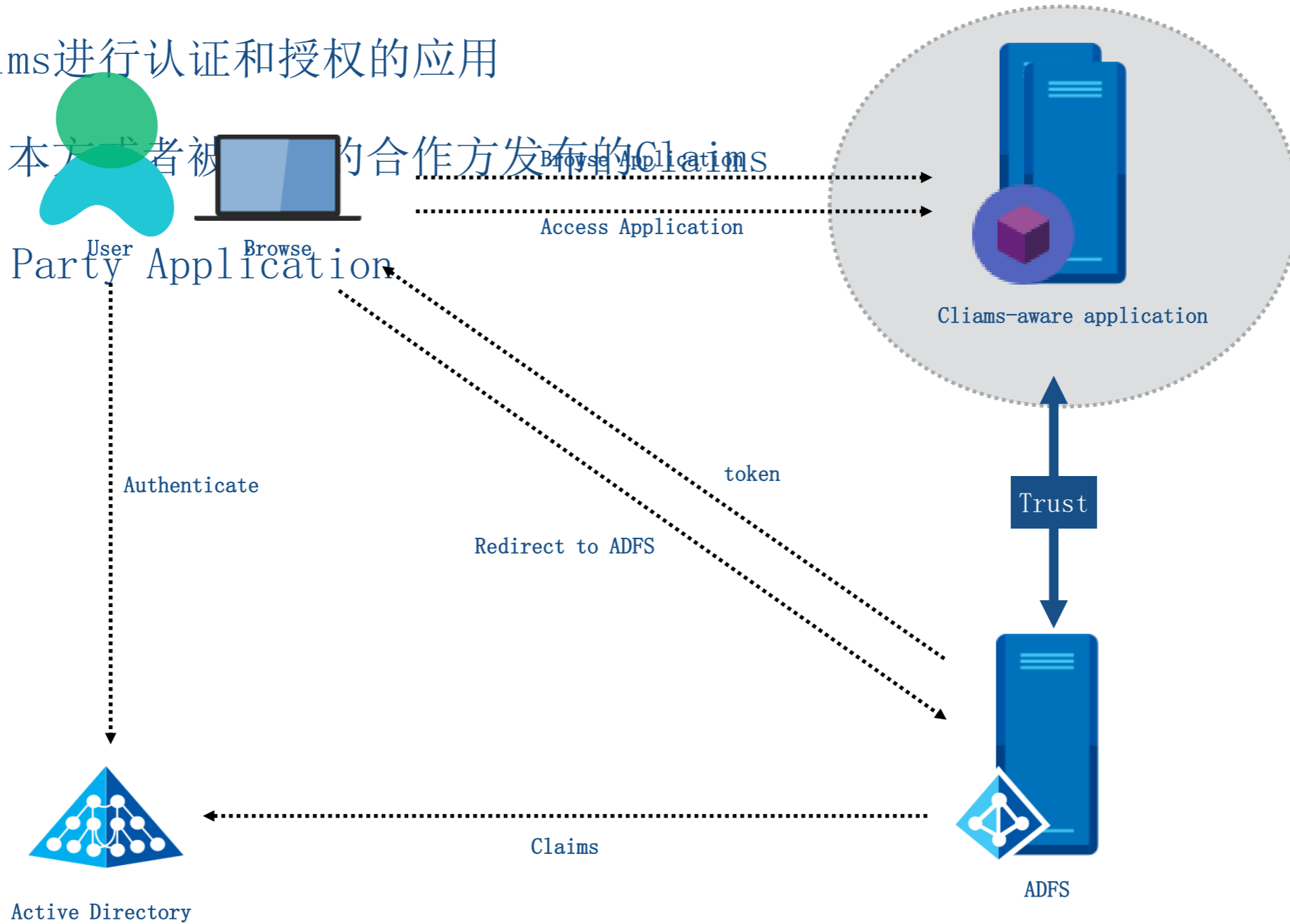


基于声明的应用

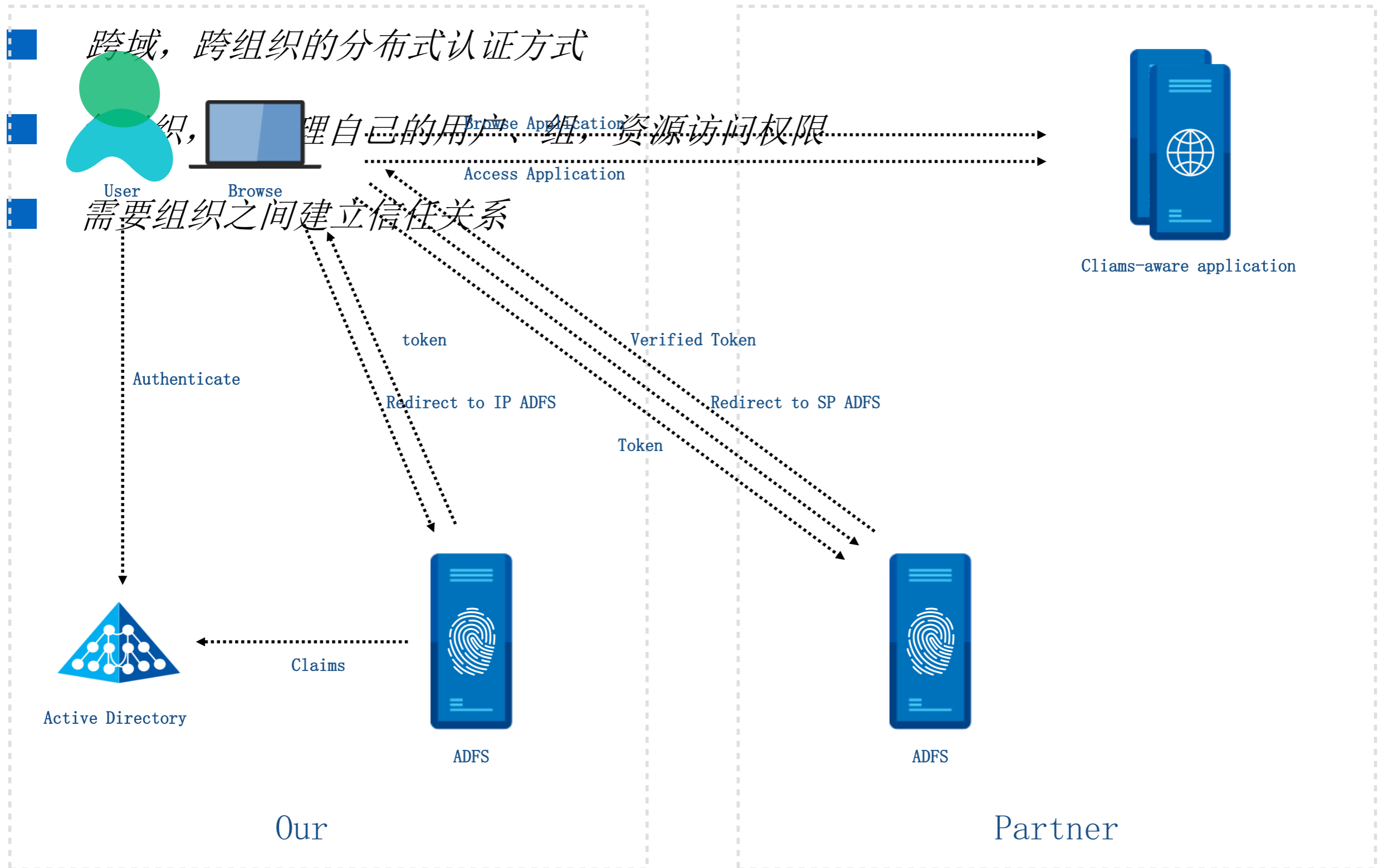
■ 依据Claims进行认证和授权的应用

■ 接收来自本方或者被合作者发布的Claims

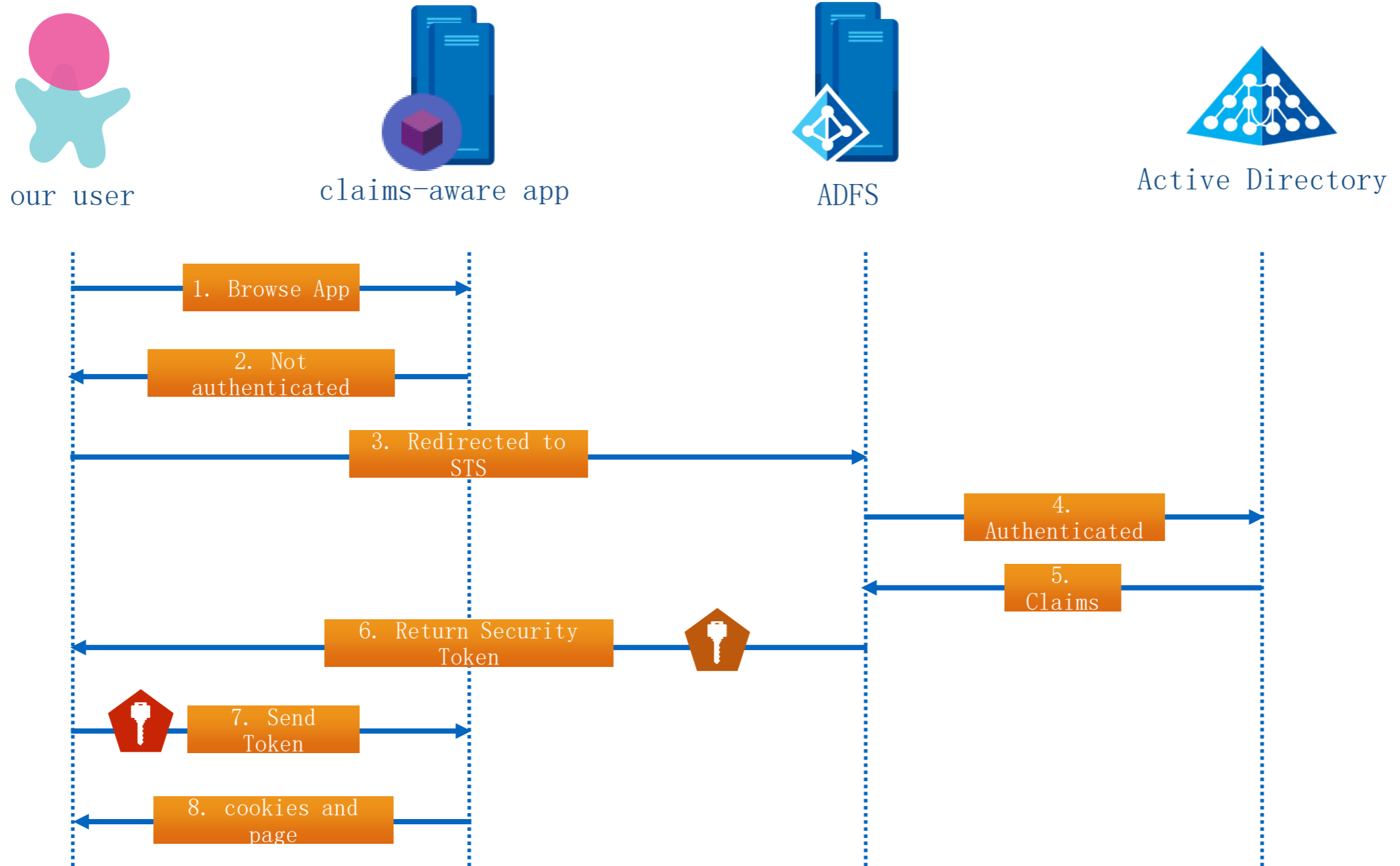
■ Relaying Party Application



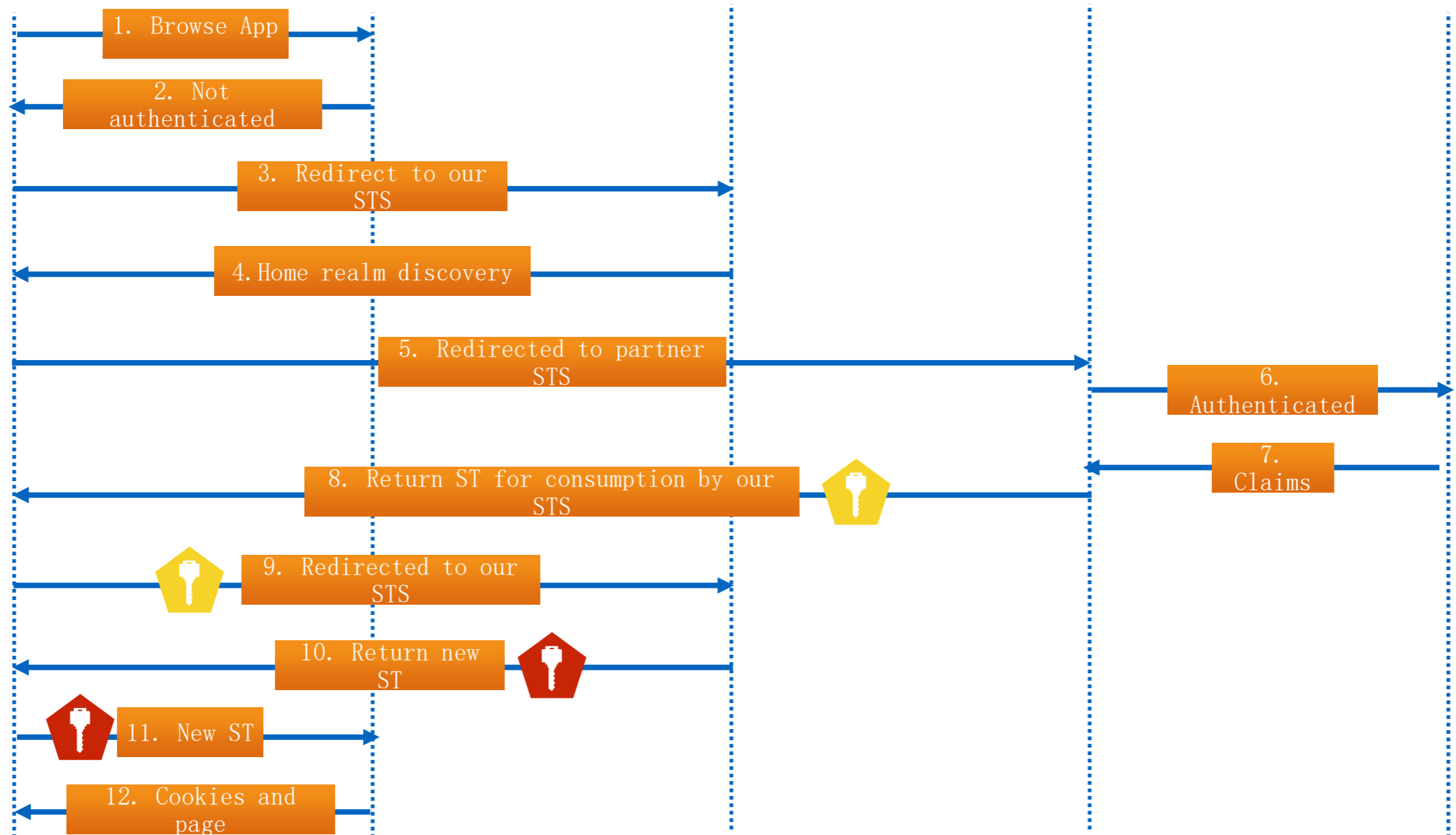
联合认证



认证流程



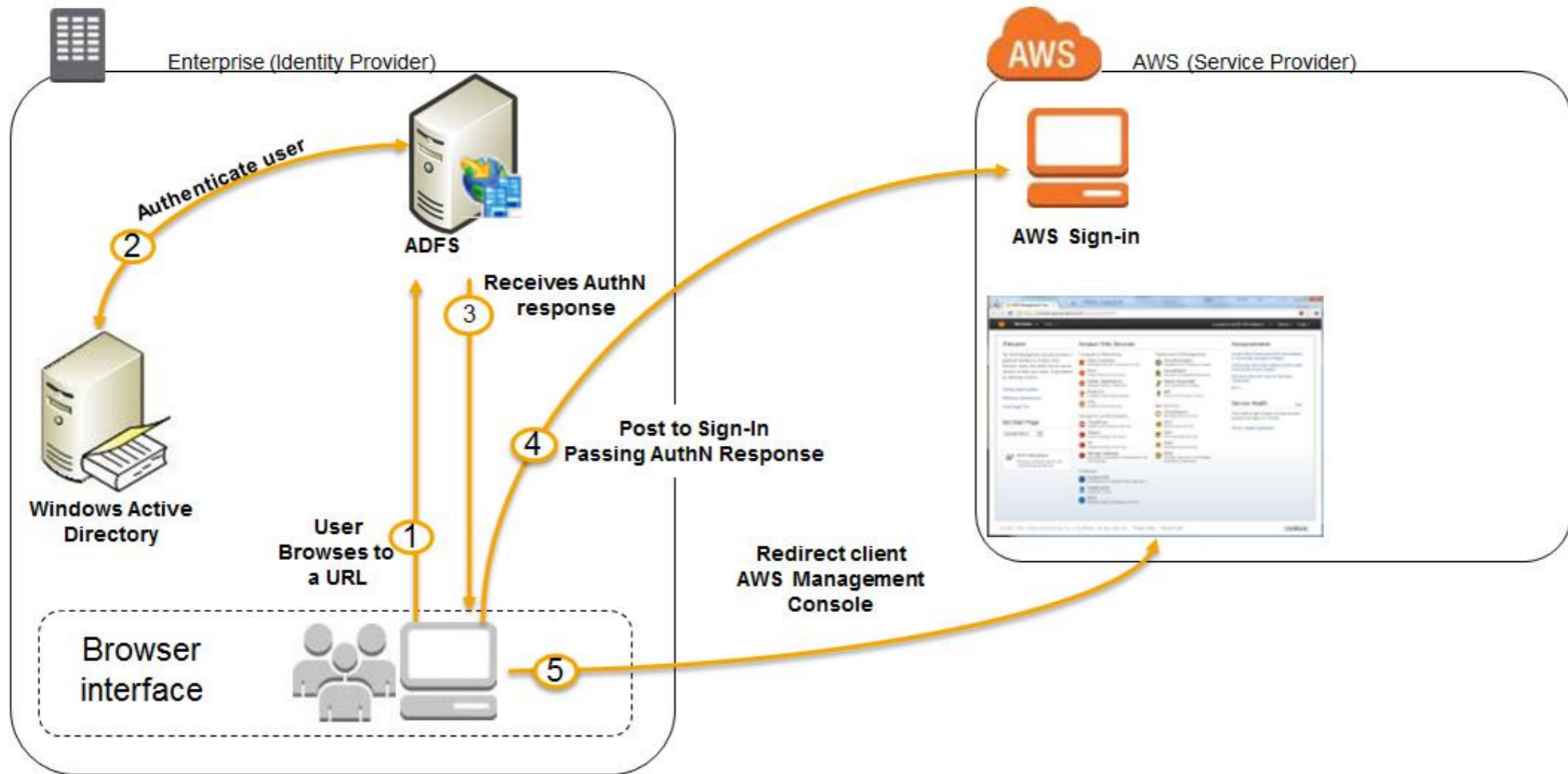
包含PARTNER的认证流程



协议

- SAML
- OAuth
- WS-Federation
- WS-Trust

AWS 集成 ADFS



谢谢

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活动反馈

