



Vittorio Bertocci

Principal Architect
OKTA
@vibronet



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### **Agenda**

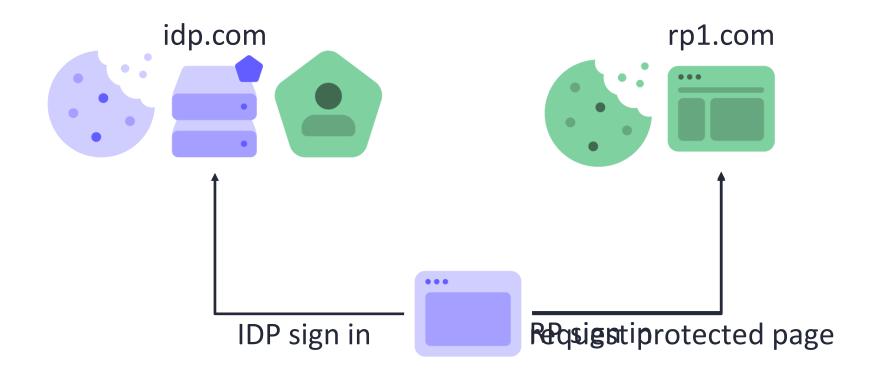
- What does "sign out" even mean?
- Traditional sign out techniques and the 3PC threat
- Modern sign out and session management
- Looking ahead

# What does "sign out" even mean?

### **Definitions**

- Session
   a time interval during which a user/app can access a resource without being prompted
  - Also: the artifact(s) that make that behavior possible

# Signing In





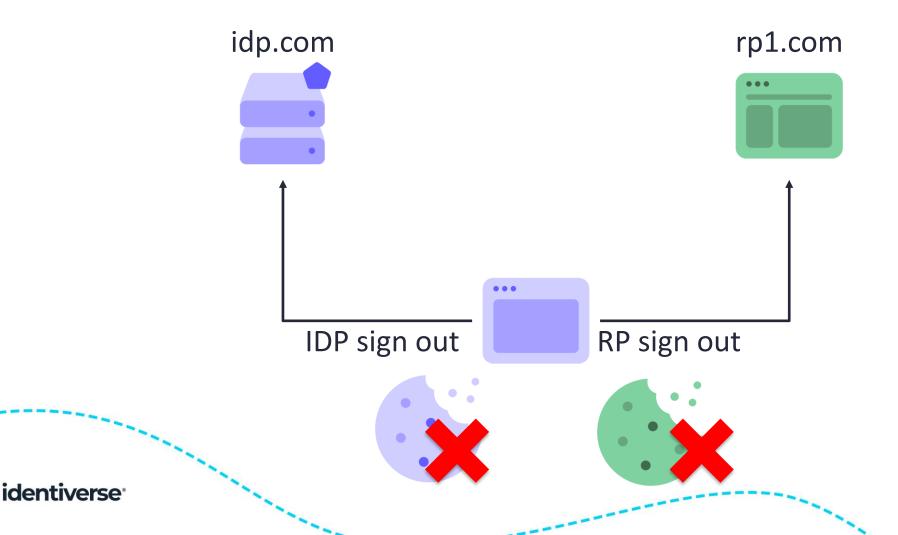
### **Definitions**

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- Sign Out

the act of terminating a session for an app (and the IdP's session that created it, if any)



# **Signing Out**



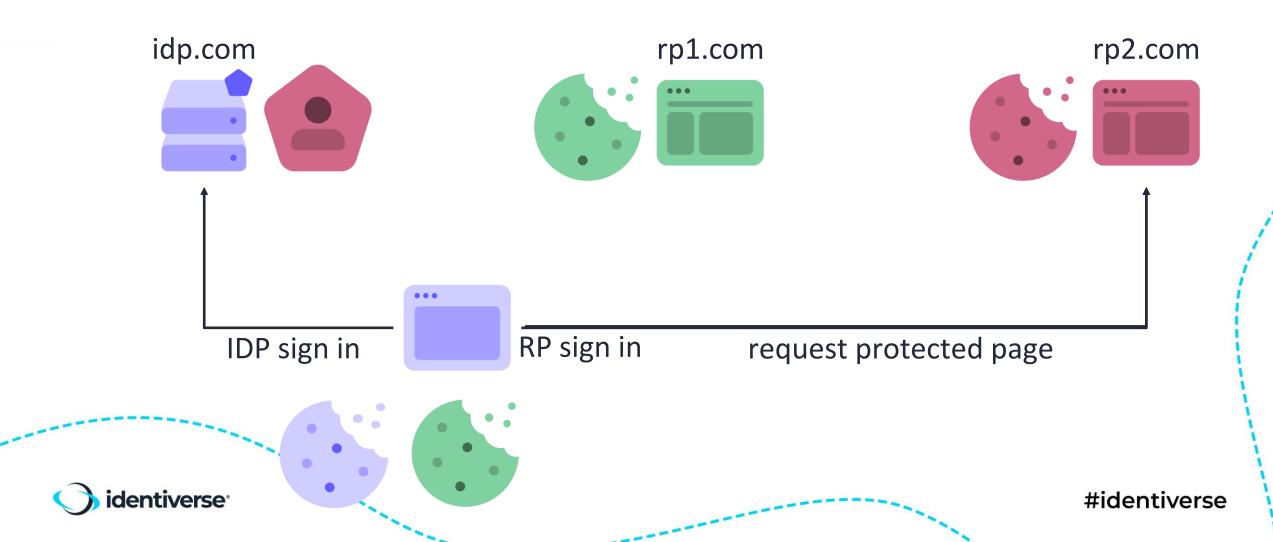
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### **Definitions**

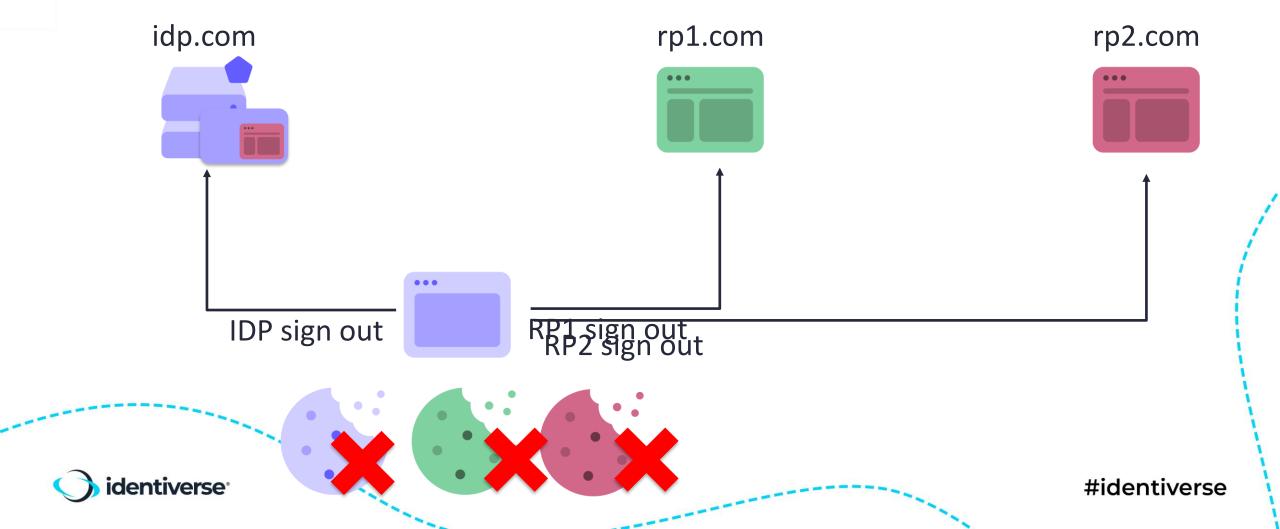
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   a time interval during which a user/app can access a resource without being prompted
  - Also: the artifact(s) that make that behavior possible
- Sign Out
   the act of terminating a session for an app (and the IdP's session
   that created it, if any)
- Distributed Sign Out (or Single Log Out, SLO)
   Sign Out + the act of signing out from all the apps whose sessions have been created from the same IdP session



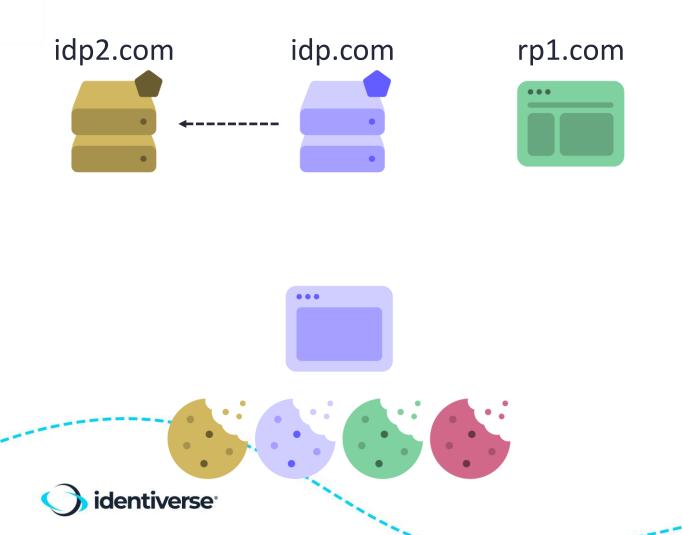
## Single Sign On

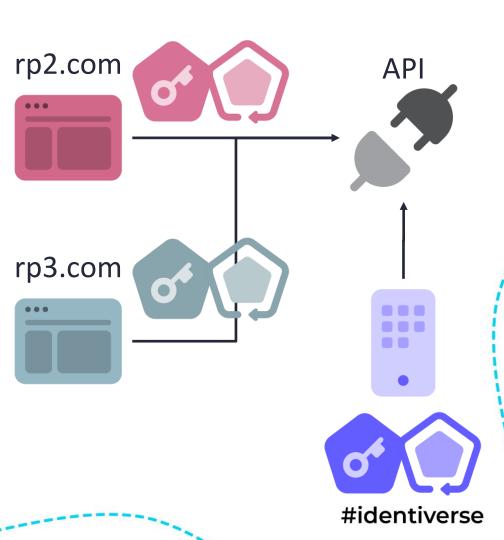


## **Distributed Sign Out**



### **Today Things are More Complicated**





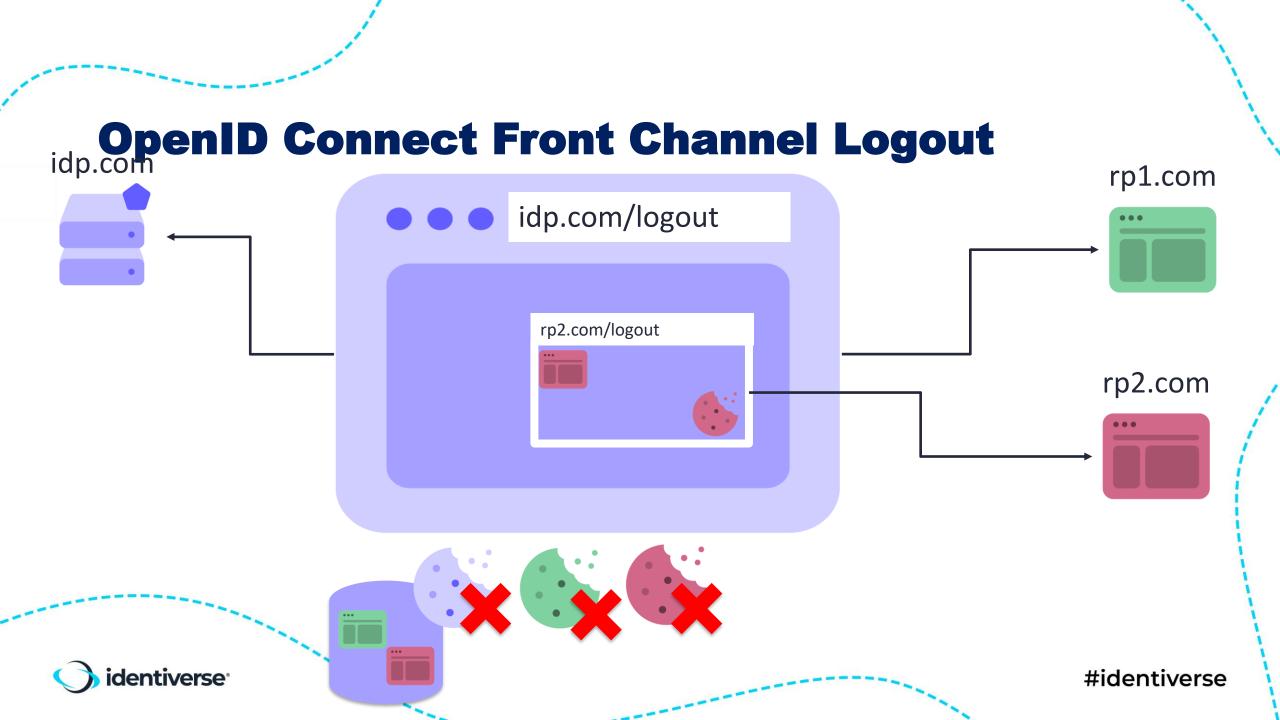
# Traditional Sign Out Flows



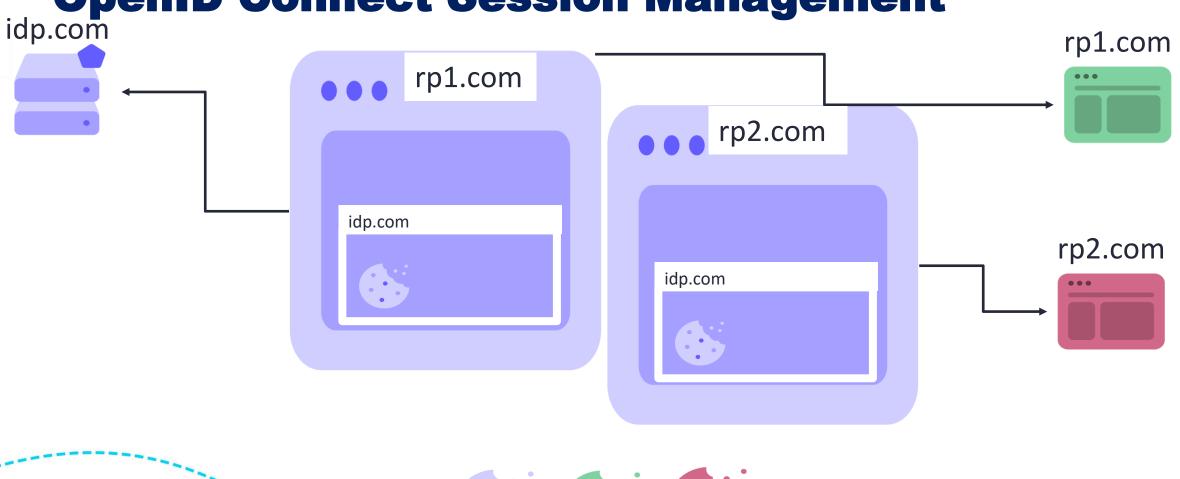
### **Web SLO Flows In Use Today**

- OpenID Connect
  - Front channel logout
  - Session management
- SAML





# **OpenID Connect Session Management**







### **What About SPAs and Native Apps?**

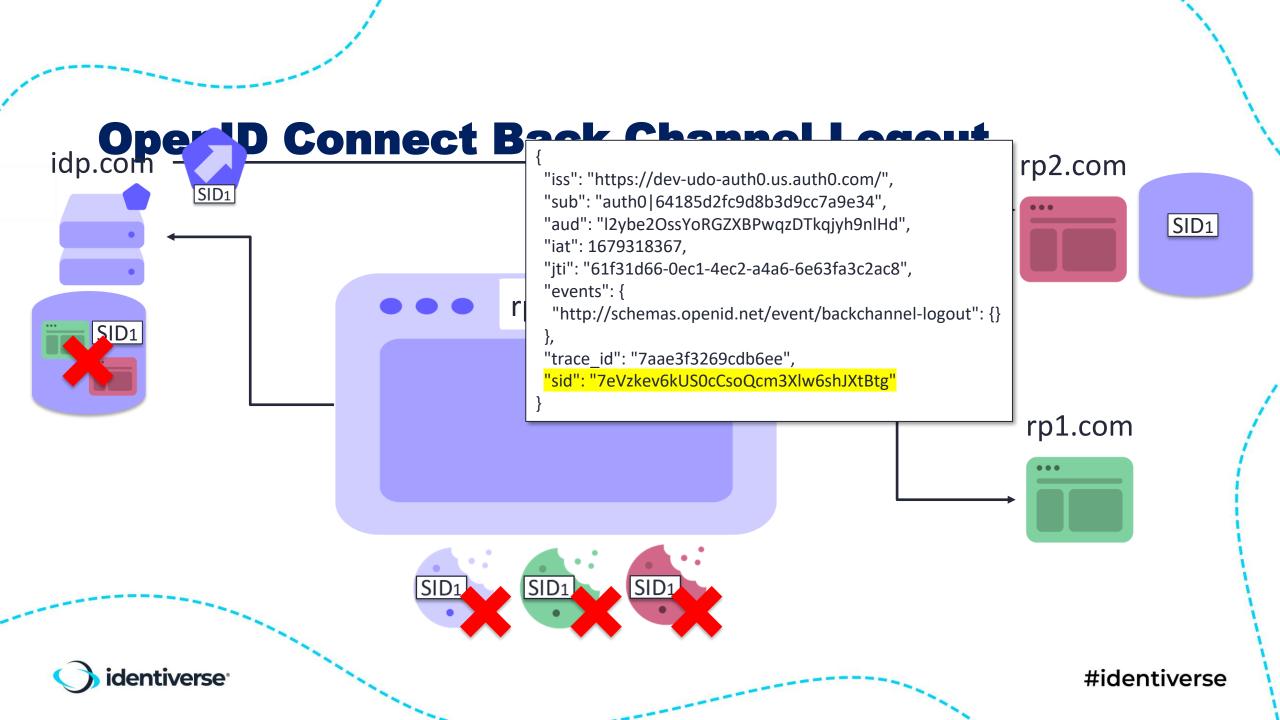
- With 3PC deprecation, OIDC session management will stop working
  - And it wouldn't help with mobile apps anyway
- No standard way to tie access/refresh token lifetimes to session's
- Emergent (but still blurry standards) for control plane



# Modern Approaches to Sign Out

#### **Assorted Tricks to Preserve Traditional SLO Flows**

- Using CNAME to put Idp and ONE RP on the same domain
- First Party Sets
- Etc



### SSF/CAEP?

- Shared Signal Framework in OpenID Foundation
- Mechanism to distribute events
  - Used by Continuous Access Evaluation (CAEP) and Risk Incident Sharing and Coordination (RISC)
- Could be used to send sign out signals



# Looking Ahead



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### **Looking Ahead**

- The deprecation of 3<sup>rd</sup> party cookies WILL force action
- Apps will need to move to 3PC-free SLO methods
- We need a control plane for non-web apps, persistent sessions
- Watch this space

#### No Time to Lose!

- Next week:
  - Identify what shapes "session" takes within your organization
- In three months:
  - Identify what protocols are in use, and what requirements current deployments have
  - Experiment with modern sign out approaches on small pilots
- Within six months:
  - Start migrating the solutions at most imminent risk of disruption
  - Have a complete plan for rationalizing and future-proofing session management company wide





