

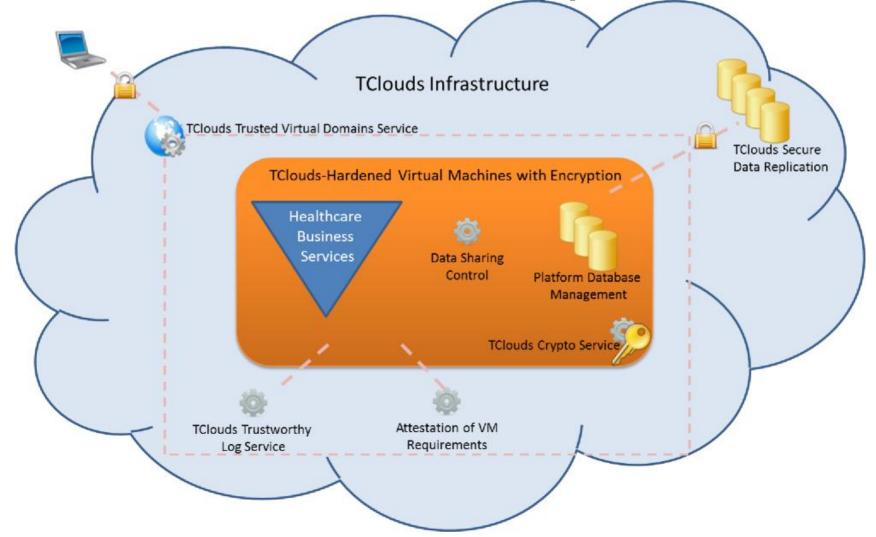


Rights Delegation in the Trustworthy Healthcare Platform

TClouds No. 257243 Trustworthy Clouds -Privacy and Resilience for Internet-scale Critical Infrastructure



healthcare trustworthy platform



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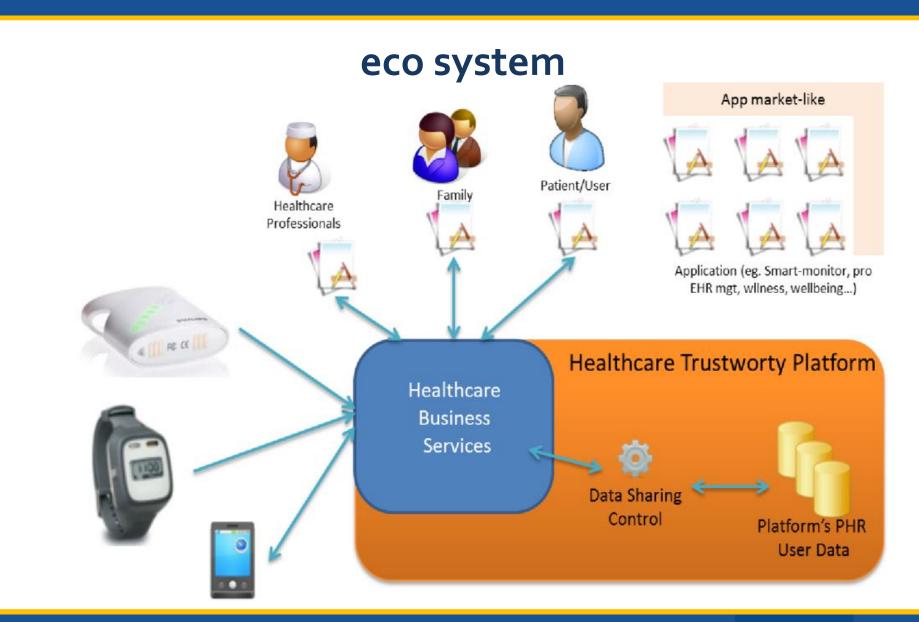
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characteristics

- Privacy Policies, End-User's Responsibility & Third Parties
- Secure In-Transit Data
- Legal Compliances
- Trusted Audits and Log
- Security on Commodity Clouds
- Secure Data Storage
- Geolocalization of EHR Databases
- REST interfaces to support applications







requirements

- patient is in control of his or her personal health data (includes EHR)
- hospital personal needs access e.g.
 - doctor to add and read data
 - administrative personal to make appointments
- devices need to be able to add data e.g.
 - activity by ActiWatch
 - weight information by a scale





Healthcare

Professionals

164.5







use cases

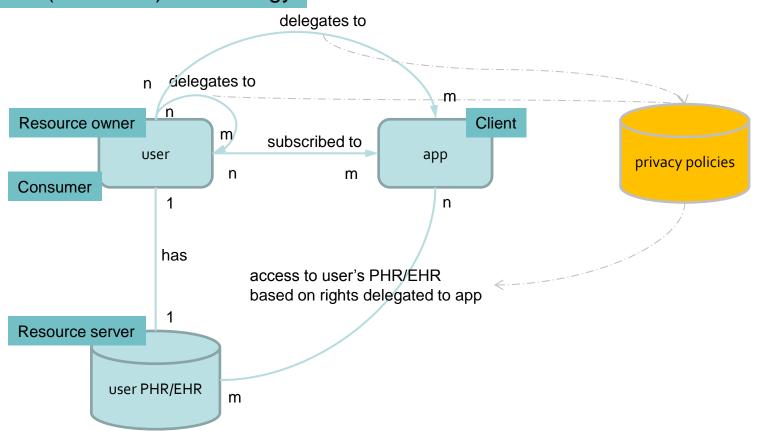
- 1. Owner
 - user accesses his or her own data
- 2. client
 - user delegates right to access (part of) his or her data to an independent device
- 3. authorized user
 - user delegates right to access (part of) his or her data to another user
- 4. authenticated user
 - user delegates right to access (part of) his or her data to an application to be used by any identified user



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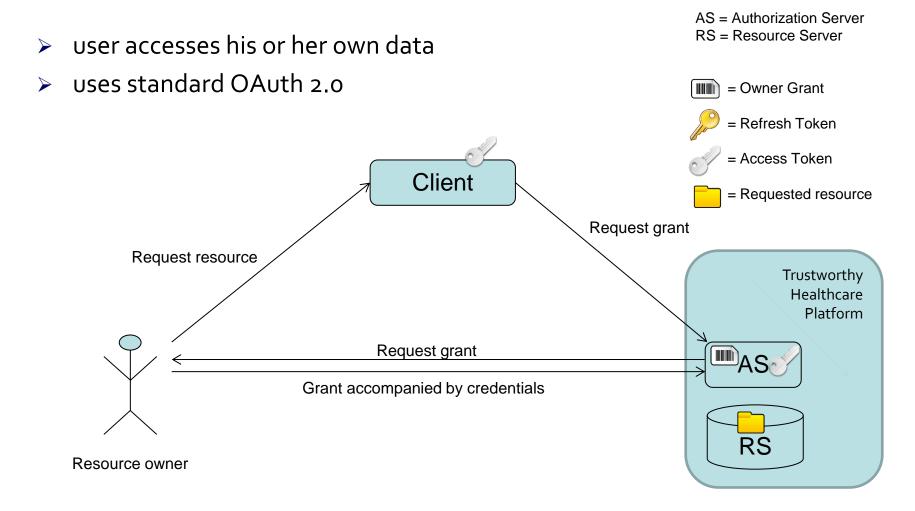
relationship

Used (OAuth2.0) terminology



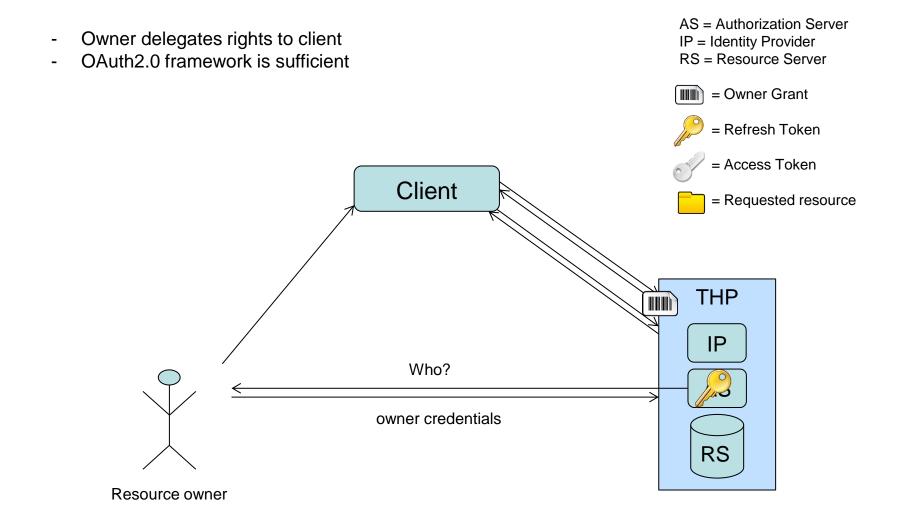


use case: owner





use case: client - setup

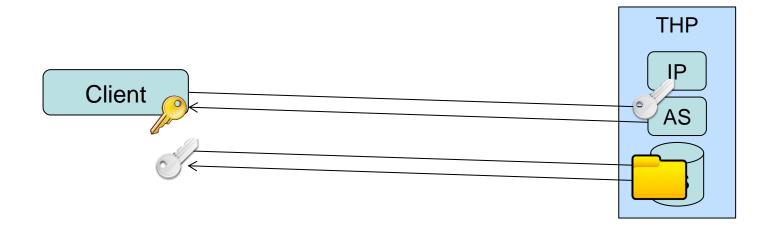




use case: client - resource access

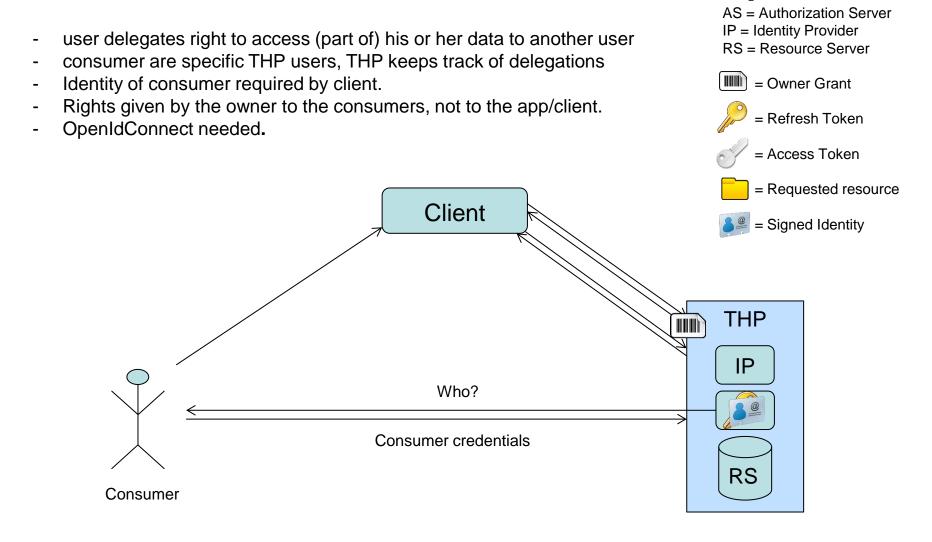
- Refresh Token to generate Access Token with limited lifetime
- Same access token can be used to perform several accesses.
- Lifetime for refresh token established by owner.
- Difference w.r.t. to OAuth 2.0, client is autonomous







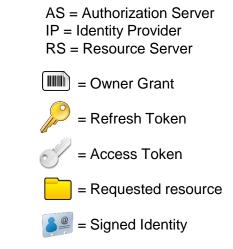
use case: authorized user - setup

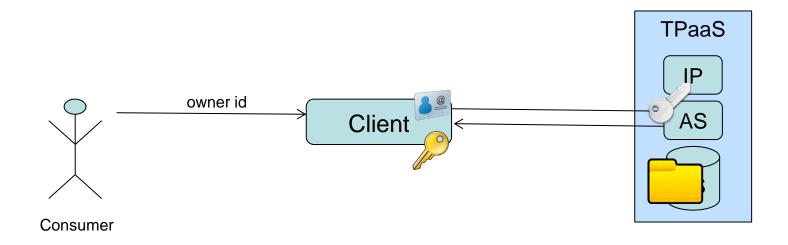




use case: authorized user - resource access

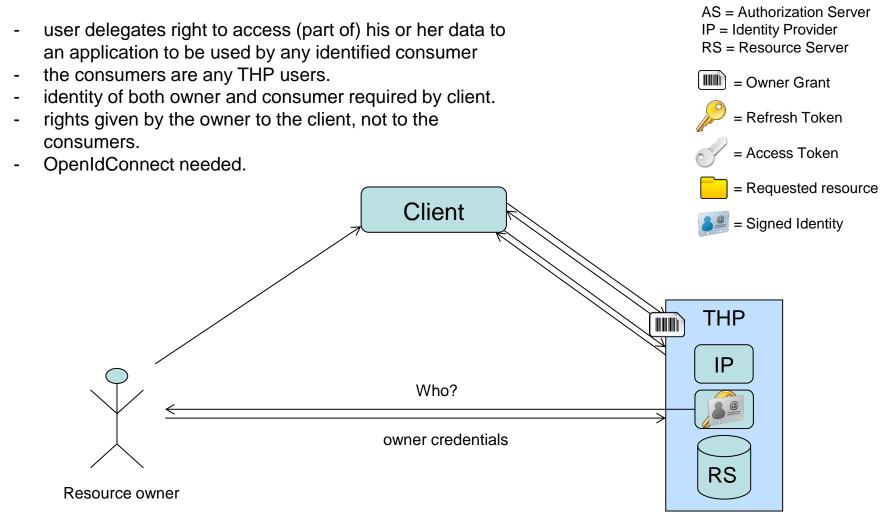
- Refresh Token to generate Access Token with limited owner-scope
- Same access token can be used to perform several accesses.
- Lifetime for refresh token short. One refresh token per session.
- Consumer must be online.



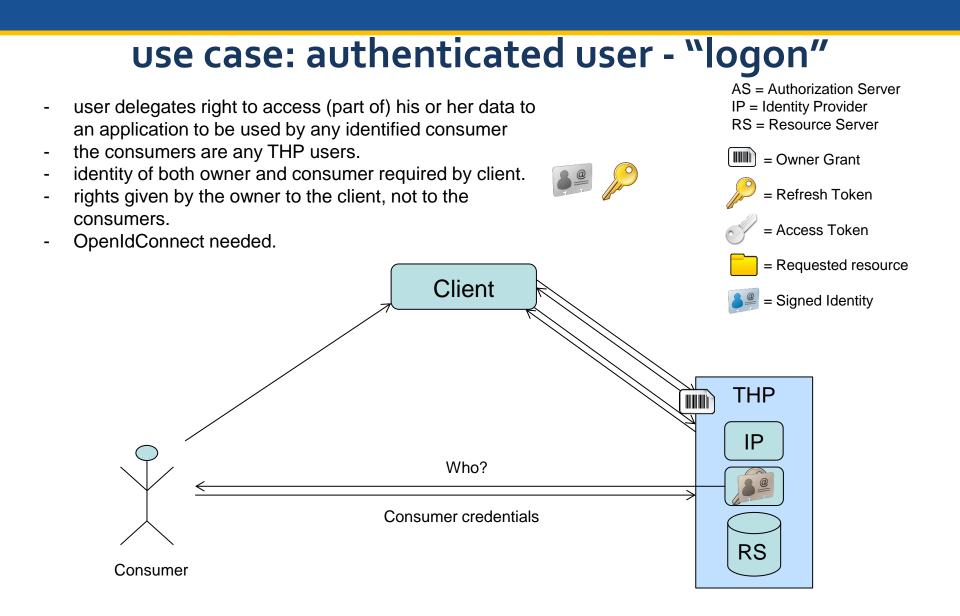




use case: authenticated user - setup





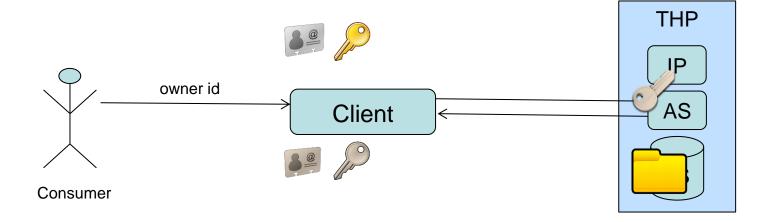




use case: authenticated user - resource access

- Refresh Token to generate Access Token with different consumer
- Lifetime for refresh token established by owner.
- Consumer must be online.







Summary

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- extending OAuth2.0
- using OpenIDConnect
- logging all resource requests for auditing purposes
- REST full interface



demo description

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- > demo shows use cases 1 and 2
- ≻ 4 VMs
 - one running all databases
 - one running logservice
 - one running OAuth2Share
 - one running the applications



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