



Reverse Proxy Based Single Sign On

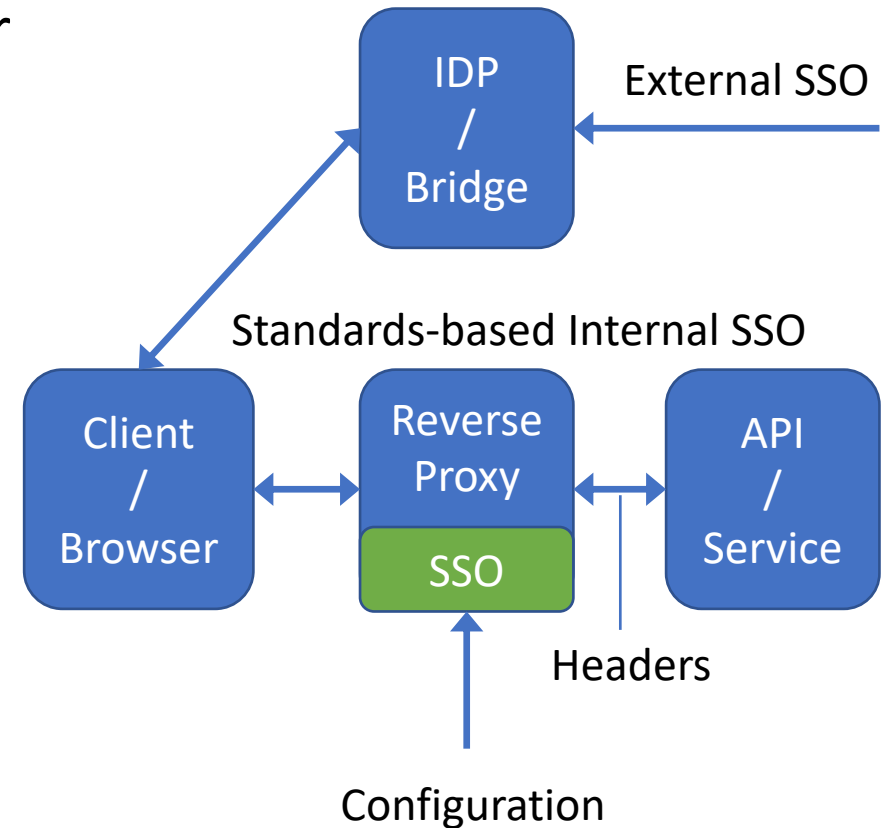
Realizing multi-protocol Identity & Access Management architectures with open source standards-based SSO implementations in reverse proxies.

February 12, 2019 - TIIME Workshop - Hans Zandbelt - ZmartZone IAM



Reverse Proxy Based SSO Architecture

- Externalize Auth and Authz
 - offload security from service/developer
 - delegated Management
- Well-known Architectural Pattern
 - firewall, load balancing, SSL offloading
 - can be combined with said functions
 - fit for containers / micro-services
- Configuration Managed
 - effectively realize centralized access management, obsoleting legacy WAM
- IDP is multi-protocol bridge
 - simple *internal* standardized SSO *integration* implementation/protocol replacing proprietary legacy ones





Implementation(s)

- “Integration” or “Last Mile” protocol: OpenID Connect
 - open, standardized, light-weight, widely available, modern REST/JSON nature
 - SAML 2.0: heavy-weight runtime, harder to manage/maintain/deploy, harder to implement (XML DSig), but foremost: therefore less widely available
 - because CAS or any other light-weight protocol is non-standardized
- Apache 2.x: mod_auth_openidc
 - full-featured, >100 conf primitives, in Debian/Ubuntu/Centos distro’s
- NGINX – lua-resty-openidc
 - simple, single OP, single grant type, in luarocks/opm
- In Beta
 - NGINX native module
 - Envoy Lua module
 - Generic C library (IIS, embedded etc.)