Best Current Practice for Workload Identity

draft-hofmann-wimse-workload-identity-bcp

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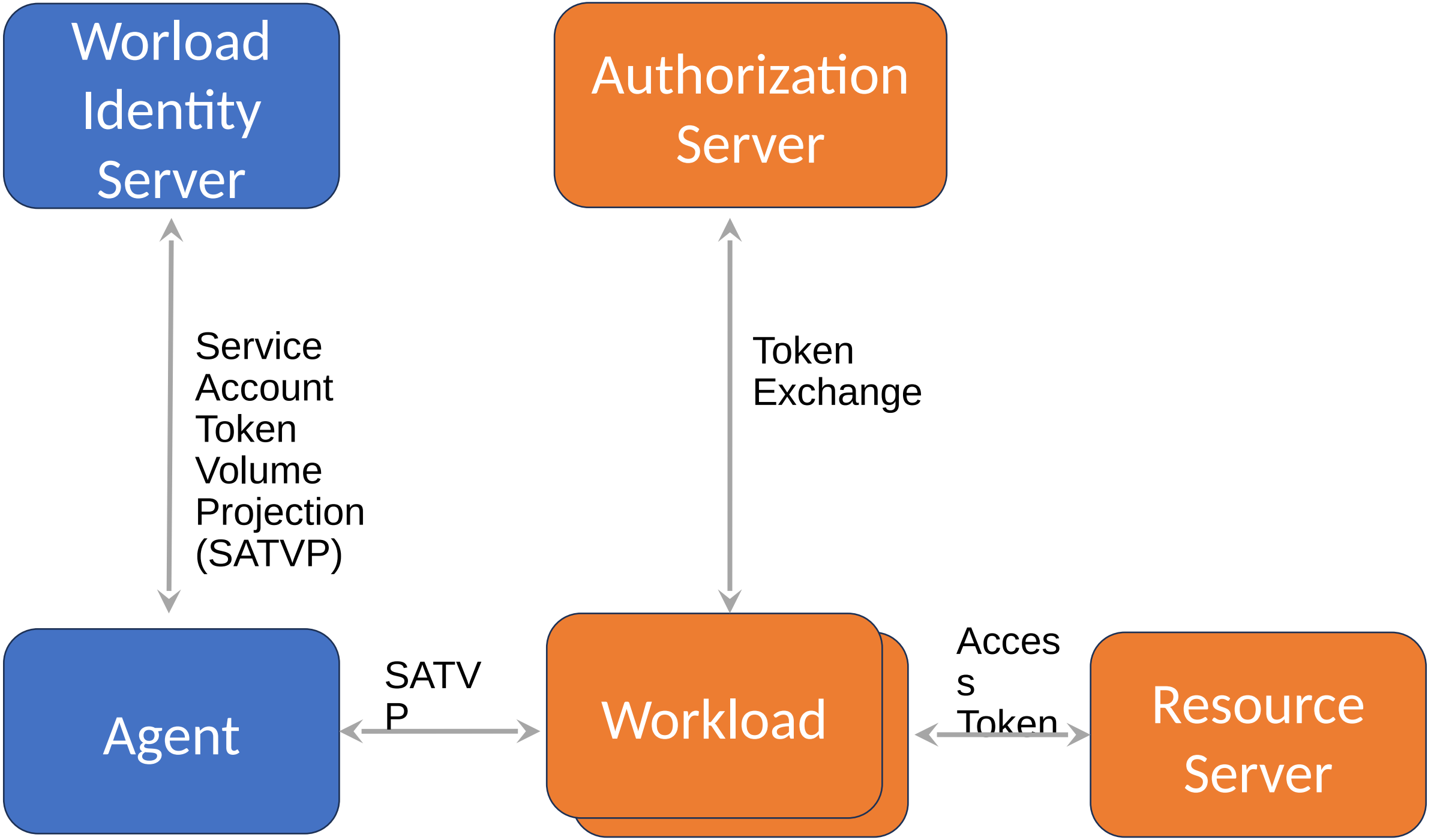
Status

- Presented draft-hofmann-wimse-workload-identity-bcp at IETF#118.
- Time between IETF#118 and #119 was mostly dedicated to the charter discussions
- Interested parties met to discuss possible enhancements.
  - But not enough time to update the draft in time for the deadline

Short Refresher

Service Account Token Volume Projection

- Workloads are issued service account token
  - These JWTs are time bound
  - These JWTs are issued to each workload
- Less configuration overhead for developers and operators.
- Relies on RFC 7523 “JWT Profile for OAuth 2.0 Client Authentication and Authorization Grants”
- Challenges arise when Authorization Servers are implemented according to OIDC Core


Worload Identity Server
Authorization Server
Service Account Token Volume Projection (SATVP)
Token Exchange
Agent
SATV P
Workload
Acces s Token
Resource Server

Going forward

Questions

- Scope is currently focused on use of JWTs for workload identities.
  +: Narrow focus allows us to finish the work quickly.
  -: Does not consider PoP tokens or X.509 certificates as credentials.

- Proposal to make recommendations regarding the host-local communication with the workload (environment variables, domain sockets, file system).

- Current version good enough as a starting point for work in the group.