

# Best Current Practice for Workload Identity

[draft-hofmann-wimse-workload-identity-bcp-00](#)

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# Background

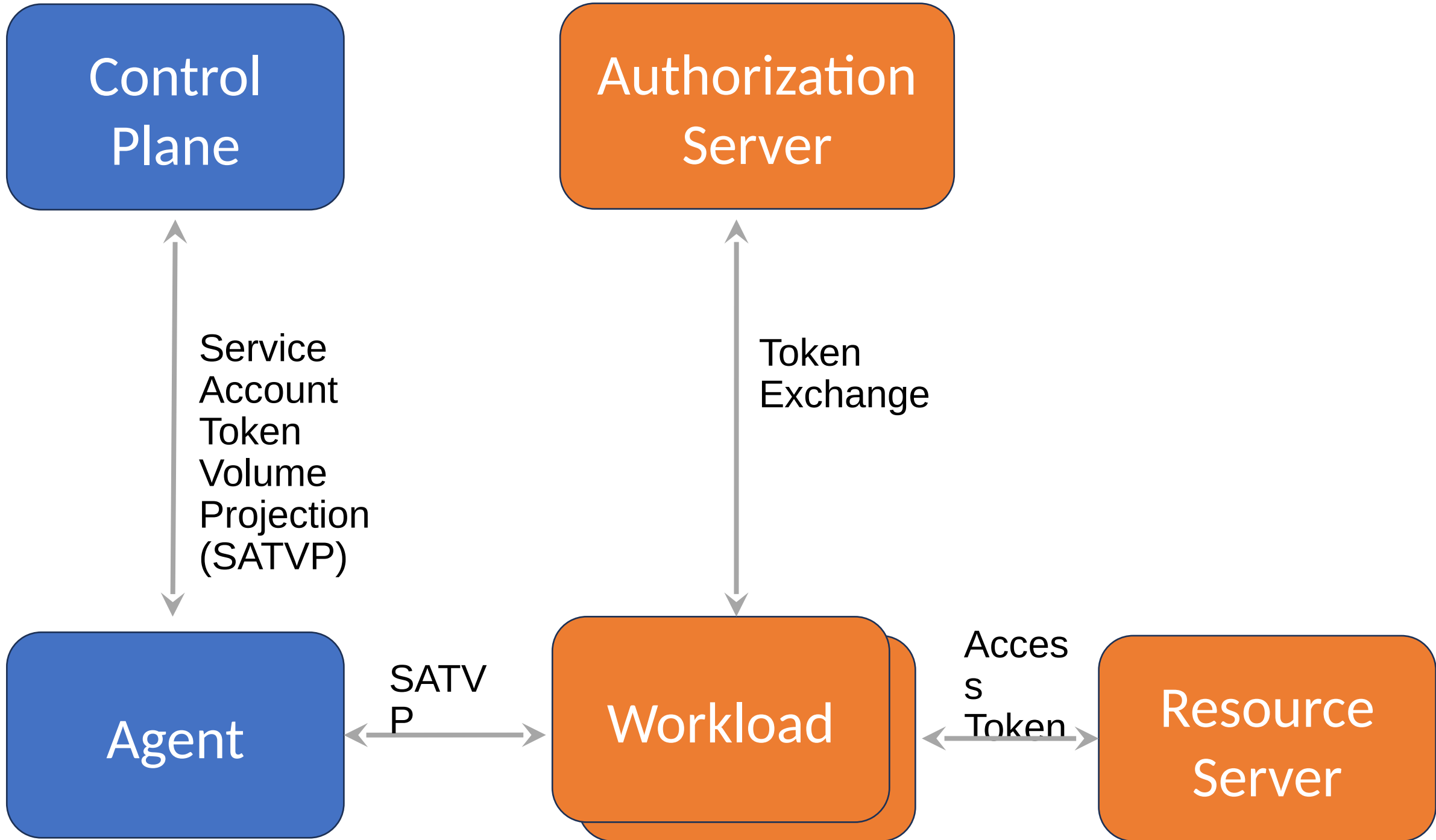
- Workloads in distributed systems often need to access protected resources.
- Often, they are provisioned with *client\_id* and *client\_secrets*
  - This often requires considerable effort by dev-ops teams
  - Rotating these credentials is often not easy
  - These credentials are not time bound
- Each new workloads needs configuration effort to be issued credentials.

# Why not utilize the control plane?

Control plane already issues JWTs to every workload already anyway.

# Service Account Token Volume Projection

- Workloads are issued service account token by the control plane
  - These JWTs are time bound
  - These JWTs are issues for each workload
- Only the public key needs to be configured at the AuthorizationServer
- Less configuration overhead for developers and operators.
- Relies on existing [RFC 6749](#) and [RFC 7523](#)



# Need for Standardization

- Authorization Servers implement [RFC 6749](#) according to [OIDC](#)
  - enforce JTI (JWT ID)
  - enforce sub=iss -> does not work out of the box
- Adoption of this best practice motivates providers of ASs to allow this option.
- Adoption of this best practice will lead to increased adoption, which leads to:
  - time bound credentials
  - less secrets to be managed
  - less configuration on the authorization server

# Write-up provides initial example of guidance

Guidance will help developers to increase interoperability of identity systems in workload identities.