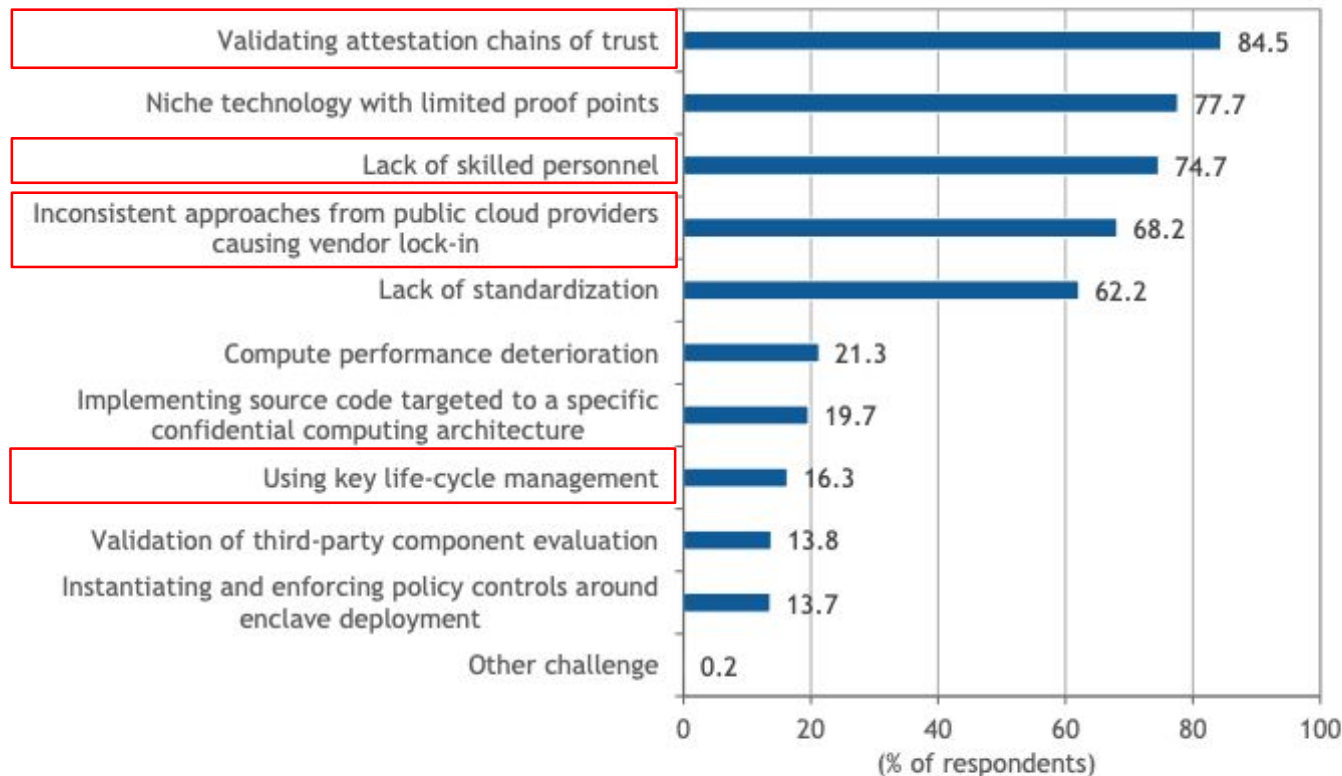


Trustee

A general purpose attestation verifier
and relying party services broker

Attestation is a Hurdle

Q. What are the key challenges or risks that you see in adopting confidential computing?



Trustee - Unified Attestation

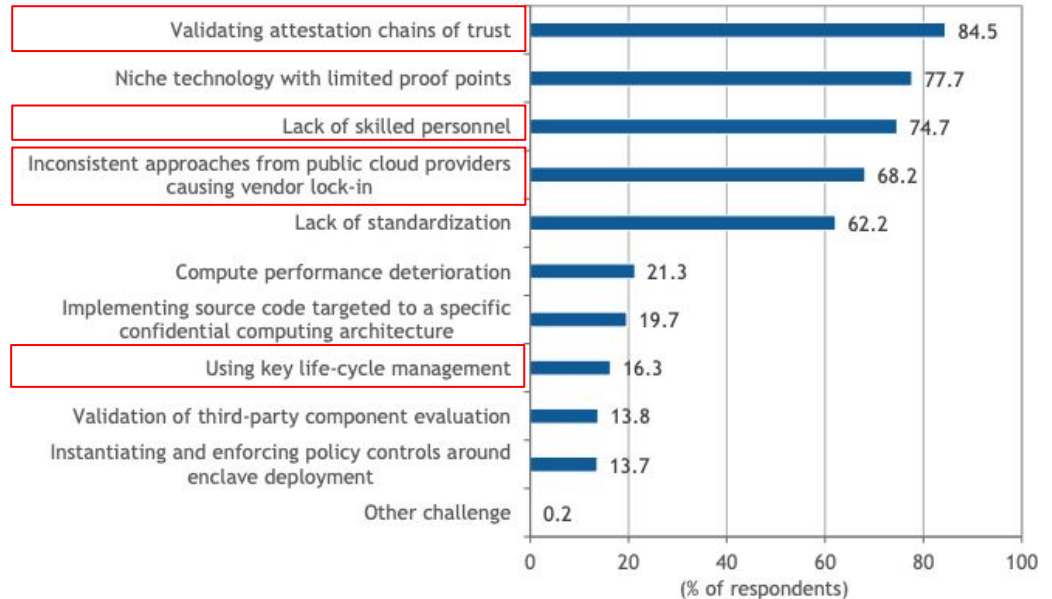
Trustee..

- Provides a **common attestation abstraction** and protocol
- Collaborates with CCC Projects **Veraison** and **Virtee**
- Supports **vendor verifiers** and even non-CC usages
- May fulfill CCC/WIMSE **workload identity** goals
- Customer-driven development

FIGURE 2

Challenges: Overcoming Adoption Hurdles

Q. What are the key challenges or risks that you see in adopting confidential computing?



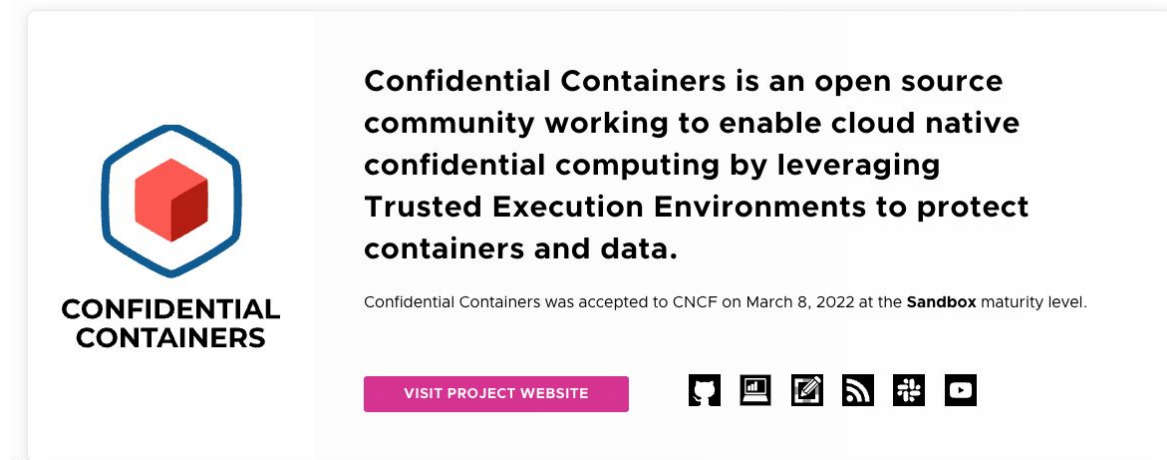
n = 600

Source: IDC's Confidential Computing Study, July 2025

Customer driven development

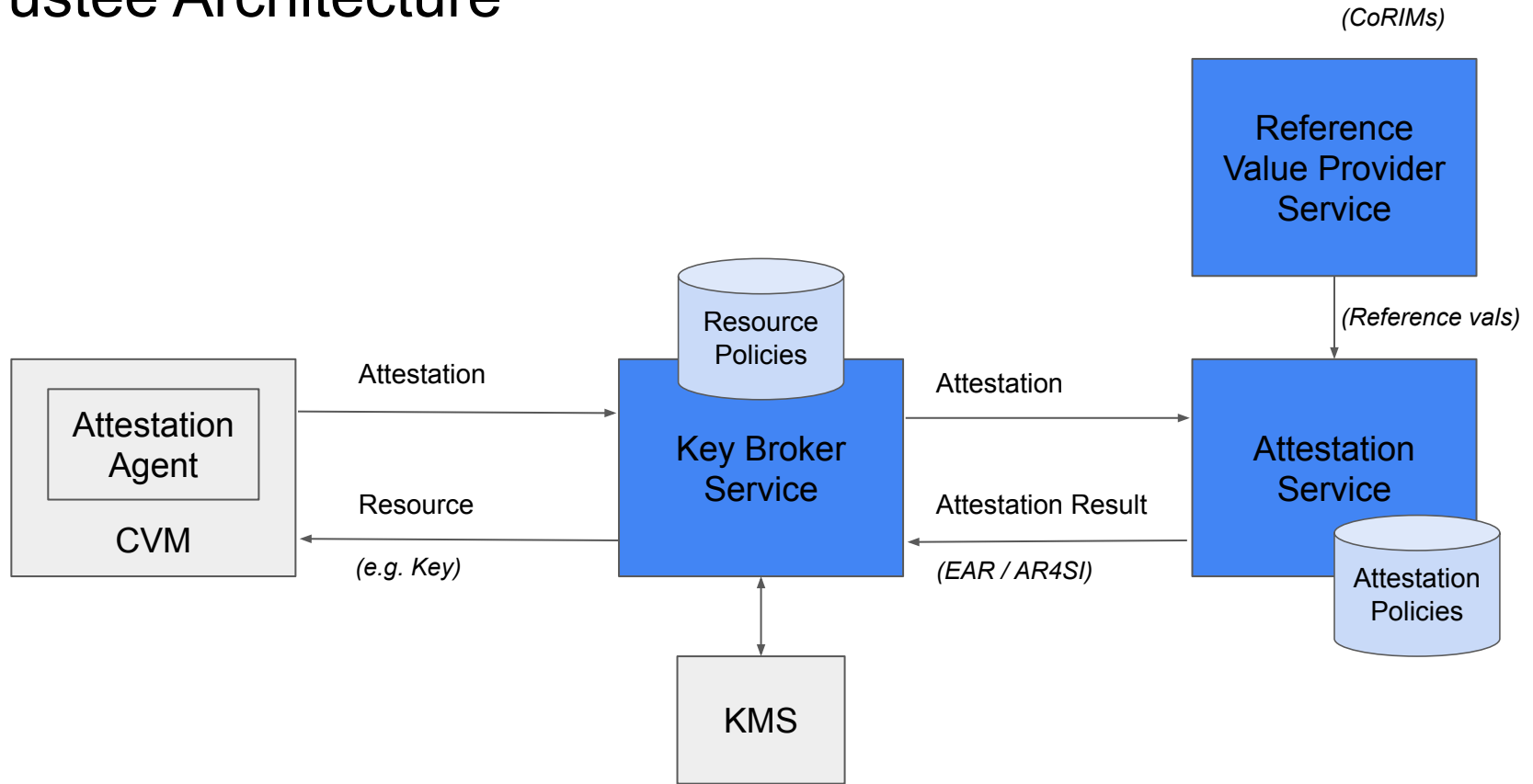
Contributors and Adopters:

- Alibaba Cloud
- Edgeless Systems
- IBM
- NanhuLab
- KubeArmor
- Red Hat
- ByteDance
- Intel
- Switchboard
- JDCloud
- Kubermatic
- NVIDIA
- Azure

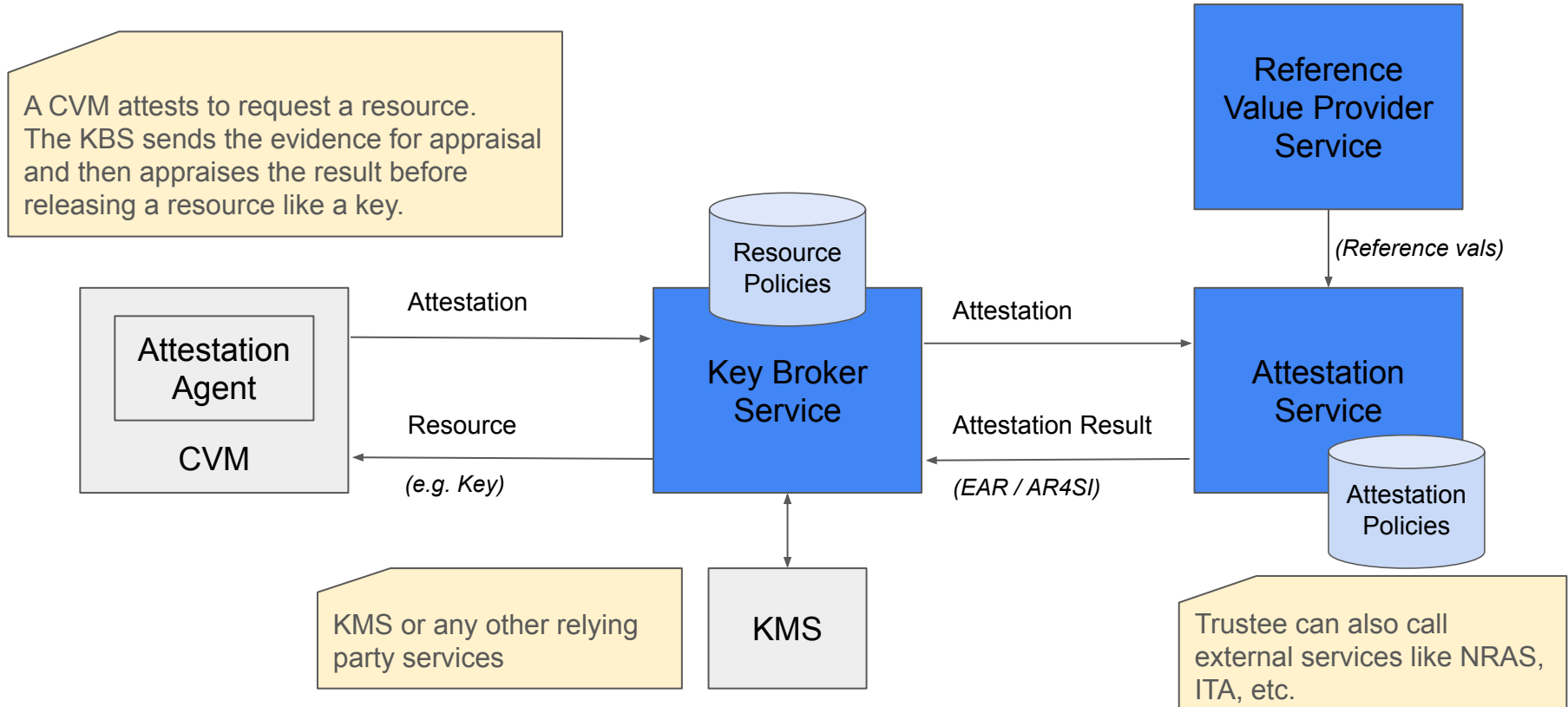


Launched in 2021, CNCF **Sandbox** Stage since 2022
Progressing to **Incubation** soon

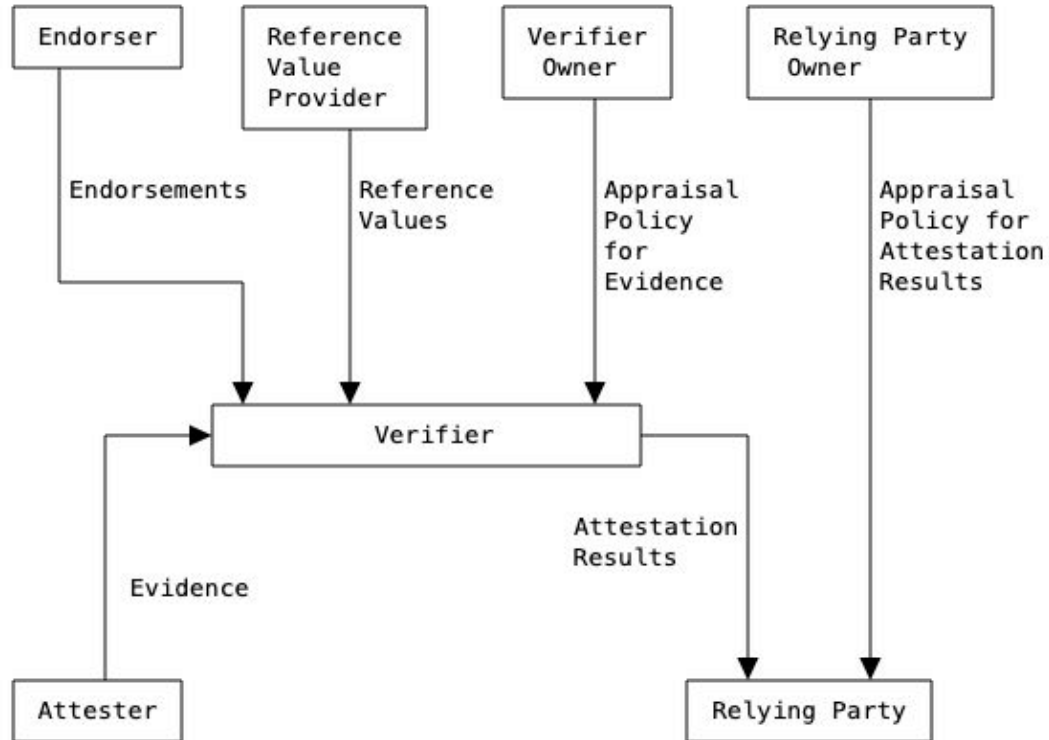
Trustee Architecture



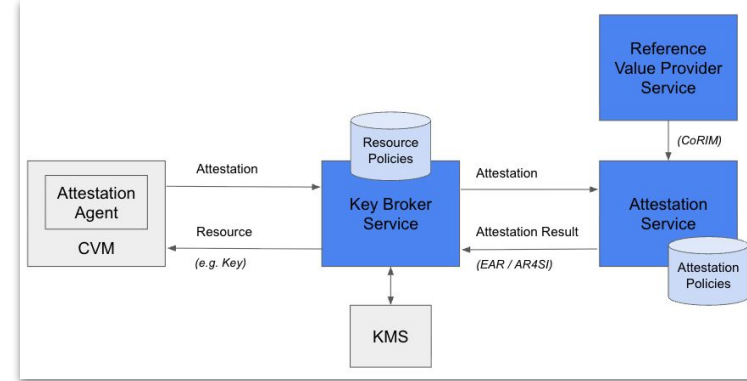
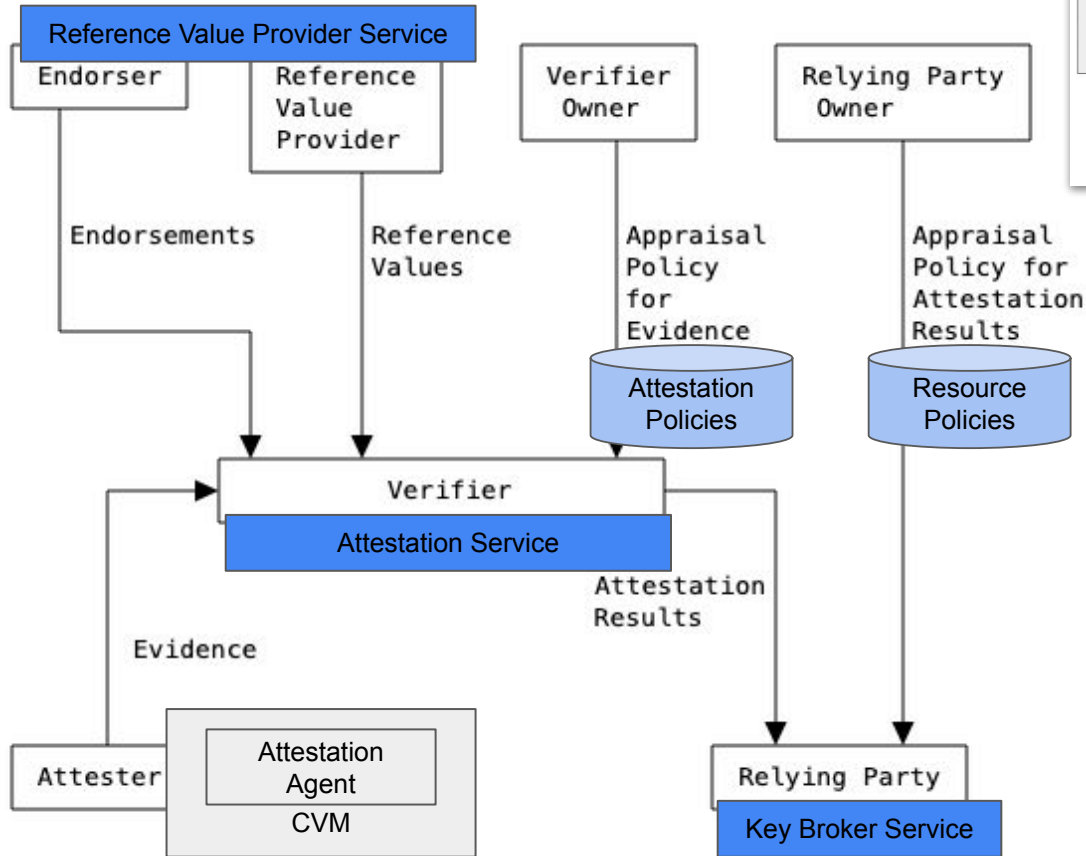
Trustee Architecture - end to end example



RATS reminder

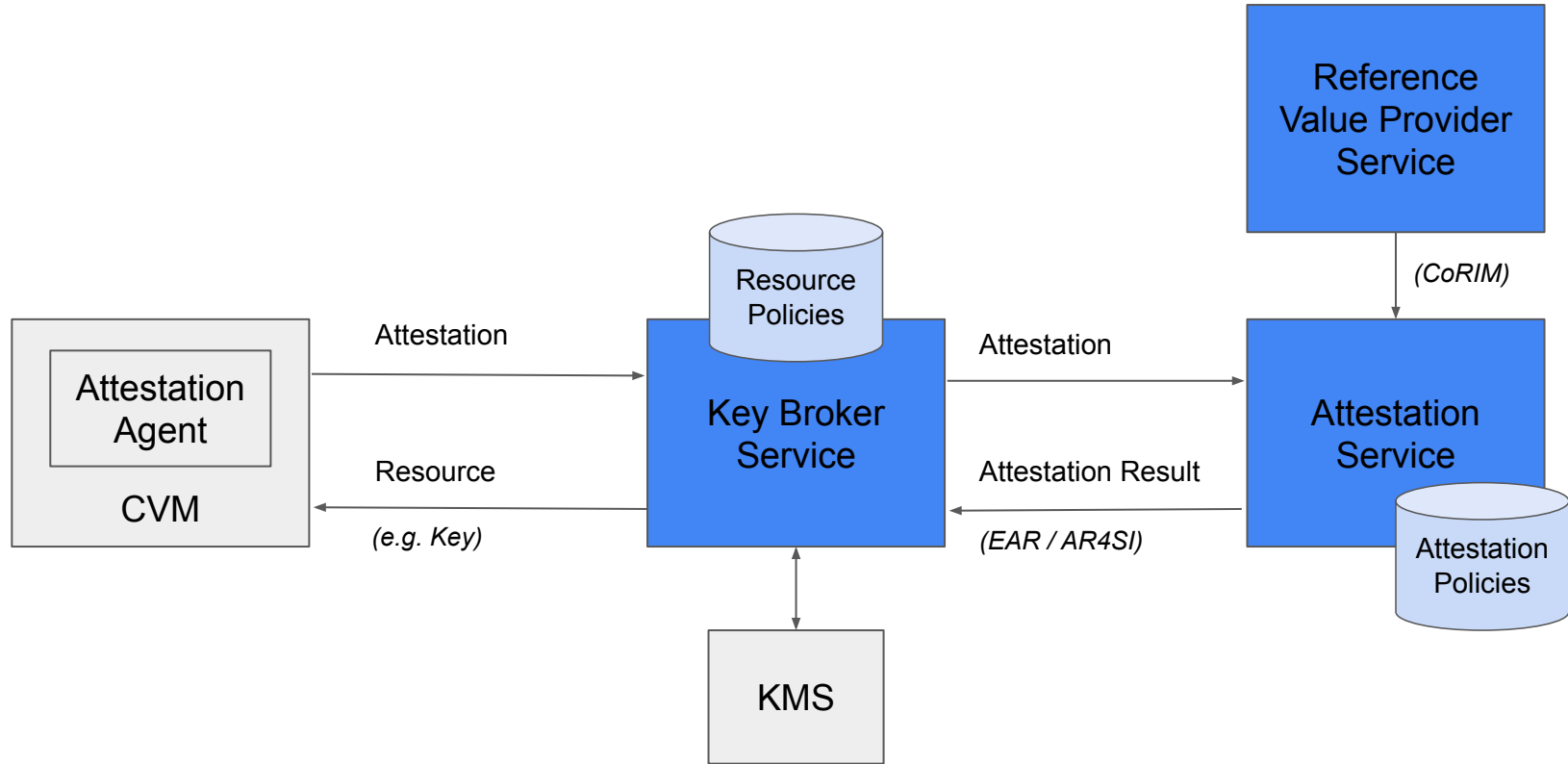


You Are Here

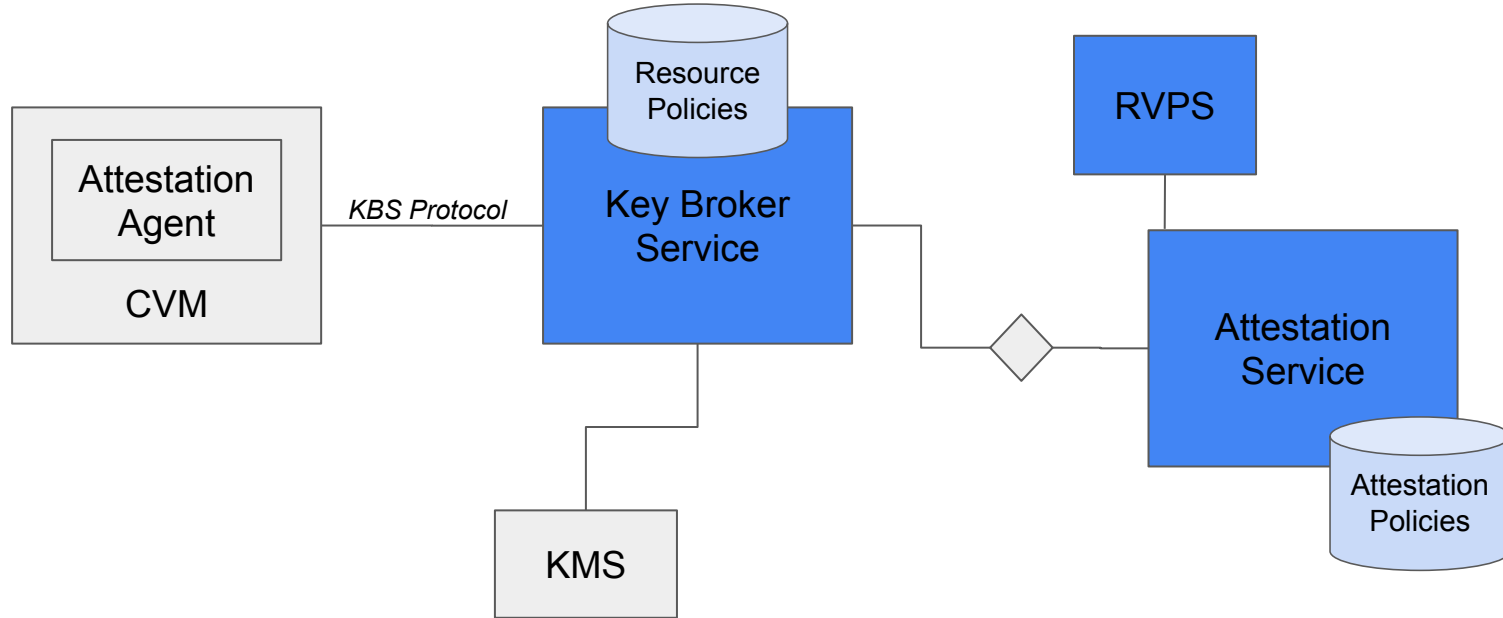


Mapping Trustee
Architecture on RATs

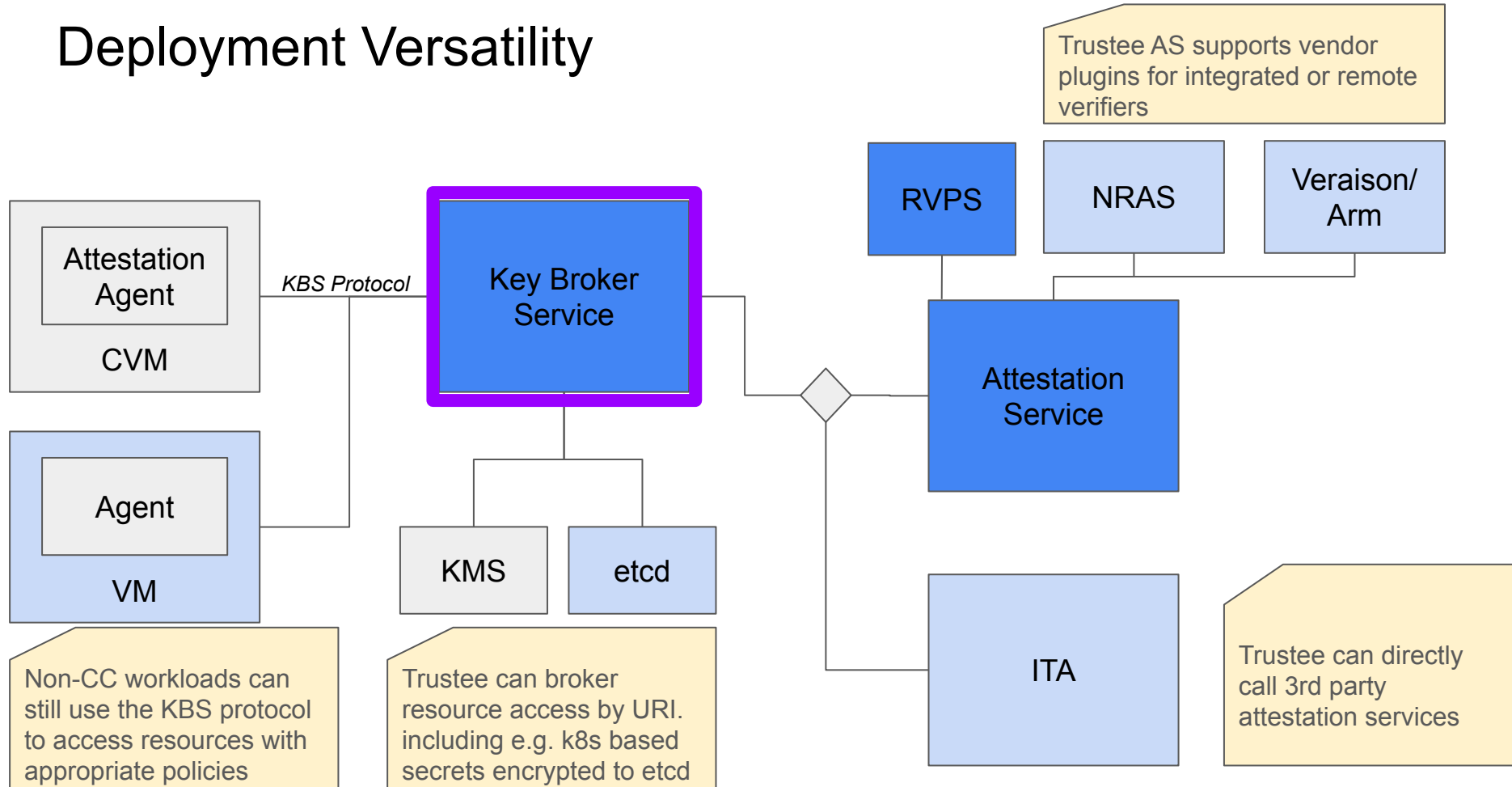
Trustee Architecture



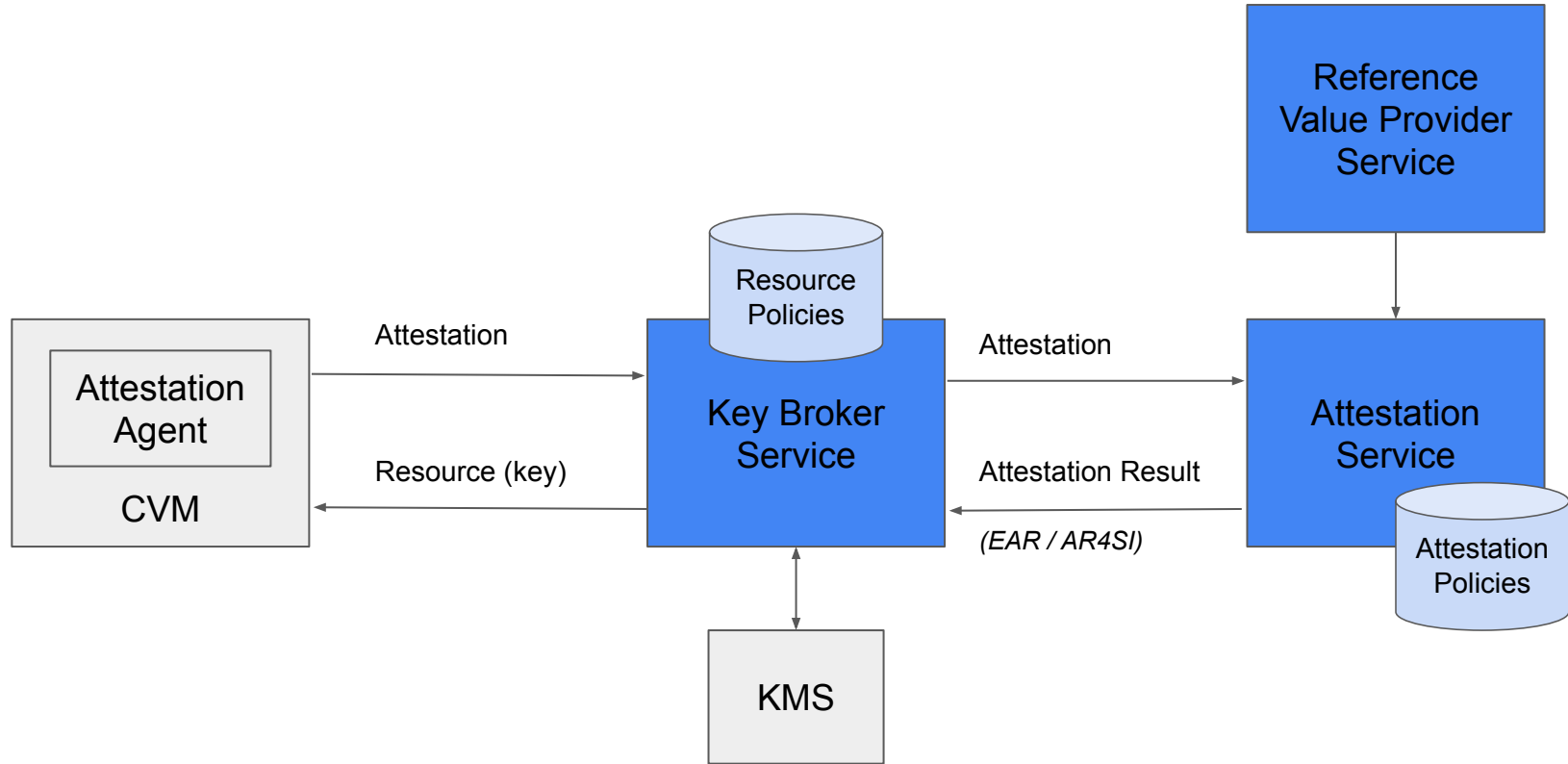
Deployment Versatility



Deployment Versatility

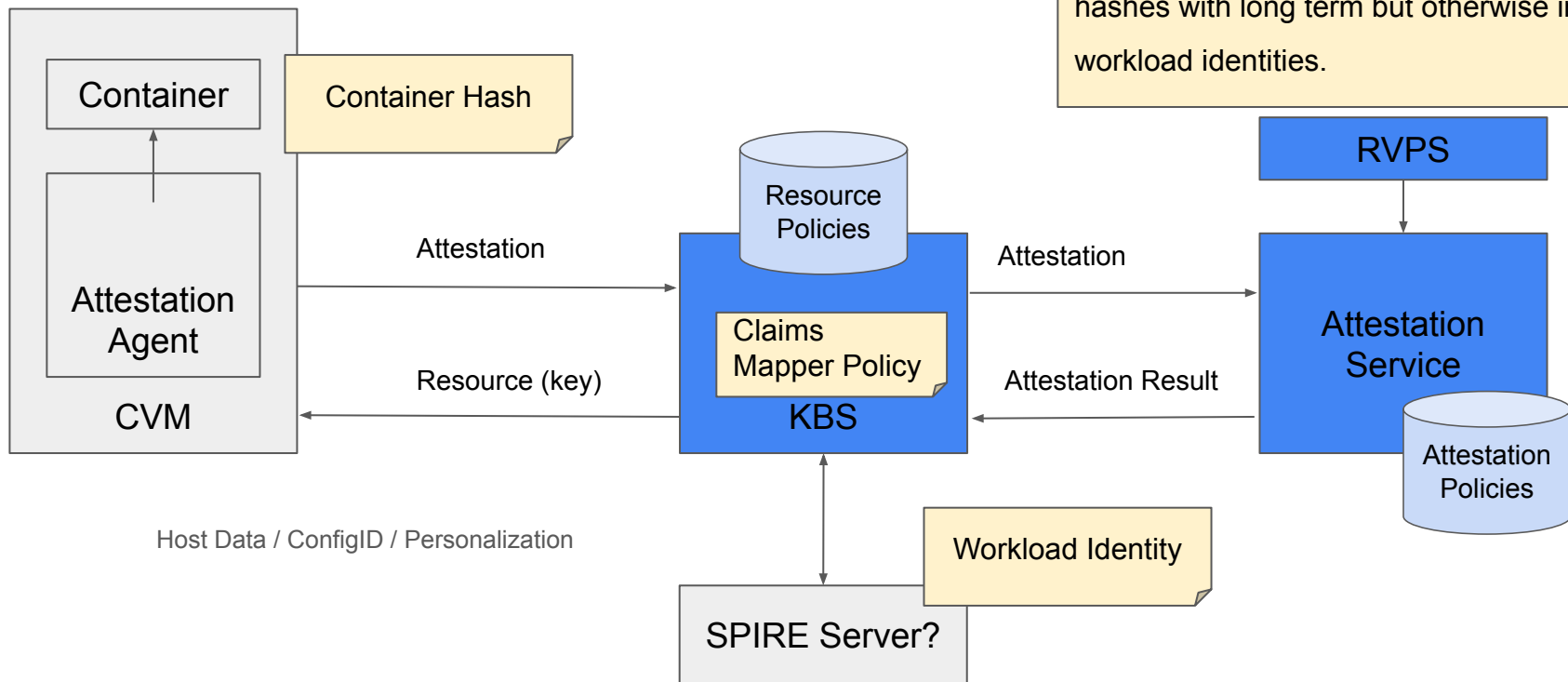


Trustee Architecture

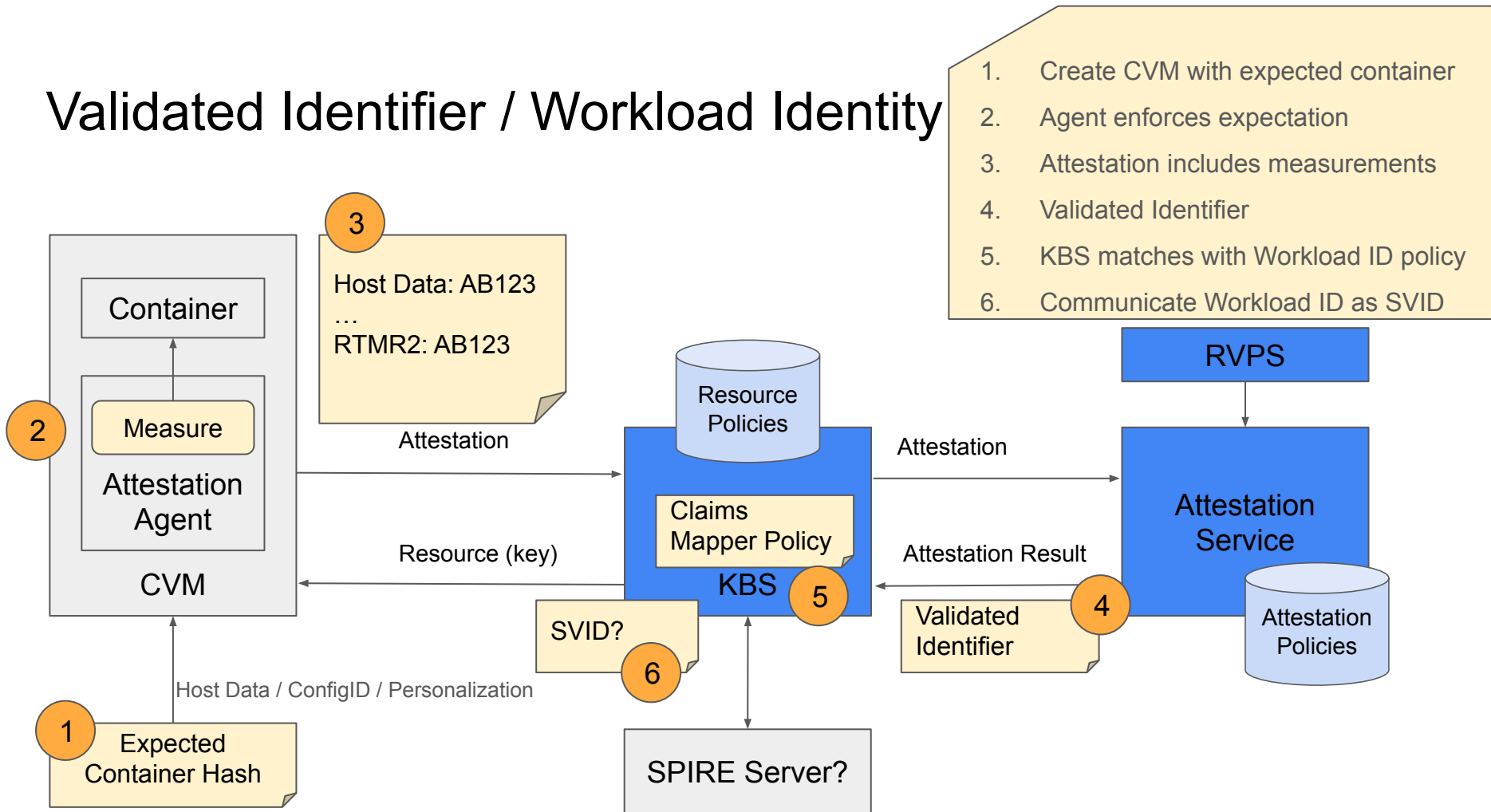


Validated Identifier / Workload Identity

Trustee could realize the **Claims Mapper** function from **CCC Workload Identity SIG**. This would map brittle but secure container hashes with long term but otherwise insecure workload identities.



Validated Identifier / Workload Identity



KBS 2-Phase Protocol

1. **Authenticate**

RCAR Handshake (Request-Challenge-Attestation-Response)

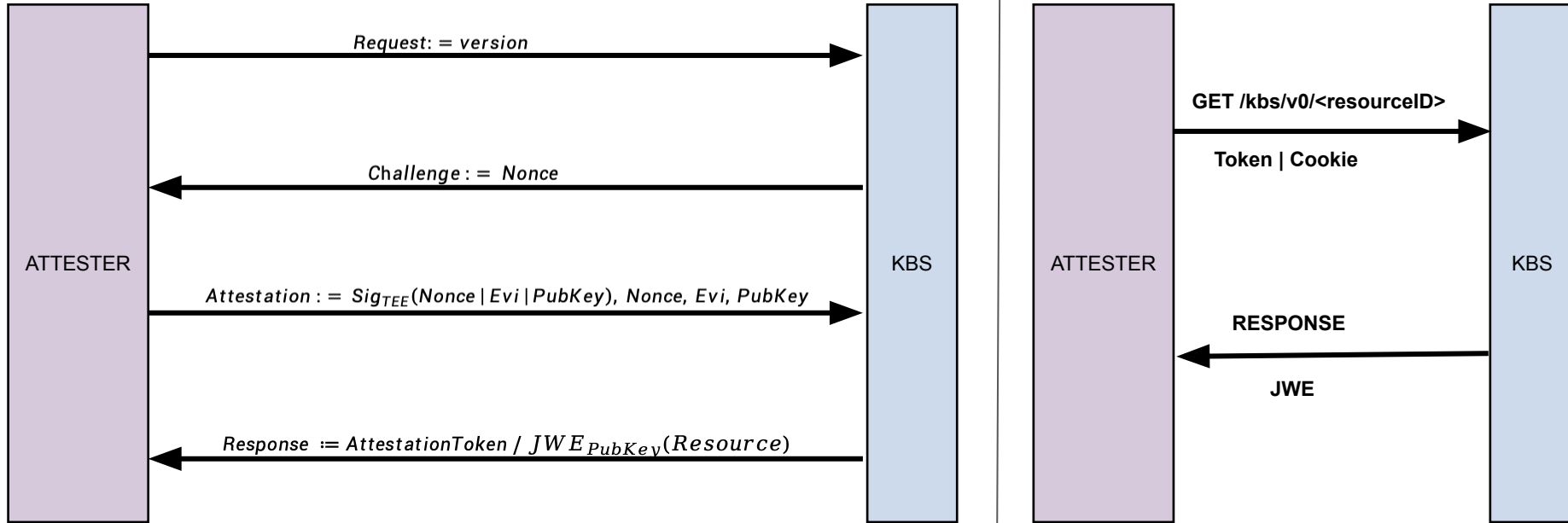
Result: Attestation Token or Session Cookie

2. **Request Resource**

Present: Token | Cookie

Retrieve: kbs://<repository>/<type>/<tag>

KBS Protocol: Phase 1 RCAR | Phase 2 Get Resource



Coming soon

Trustee in an Enclave

Establishing RoT in Trustee Enclave

New verifiers as new platforms emerge

Continue collaborating on Workload Identity

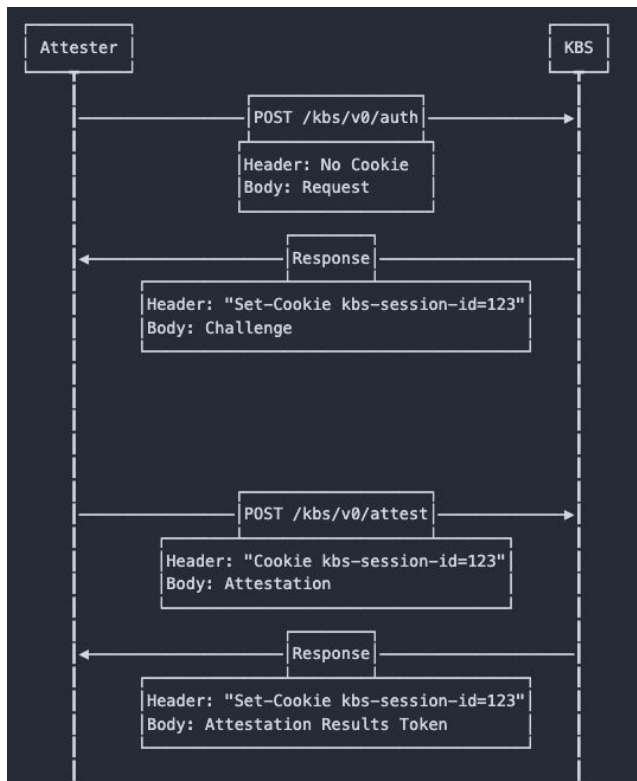
Standardize on KBS Protocol through adoption

Questions?

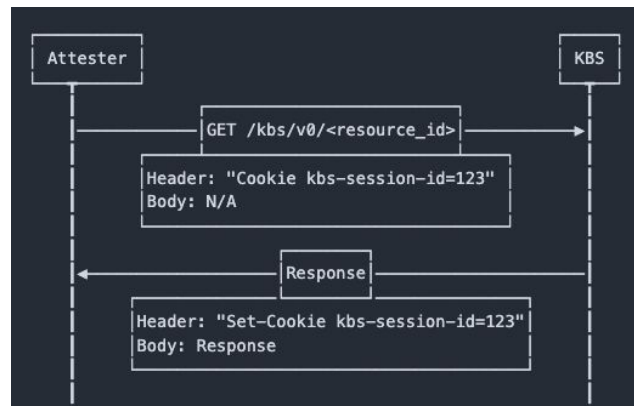
BACKUP

KBS Protocol

Authenticate



Request Resource



Secret Resource

KBS uses the following path format to locate secret resources:

`/kbs/v0/resource/<repository>/<type>/<tag>`