



SPIFFE at the BotAuth BoF (IETF 123 Madrid)

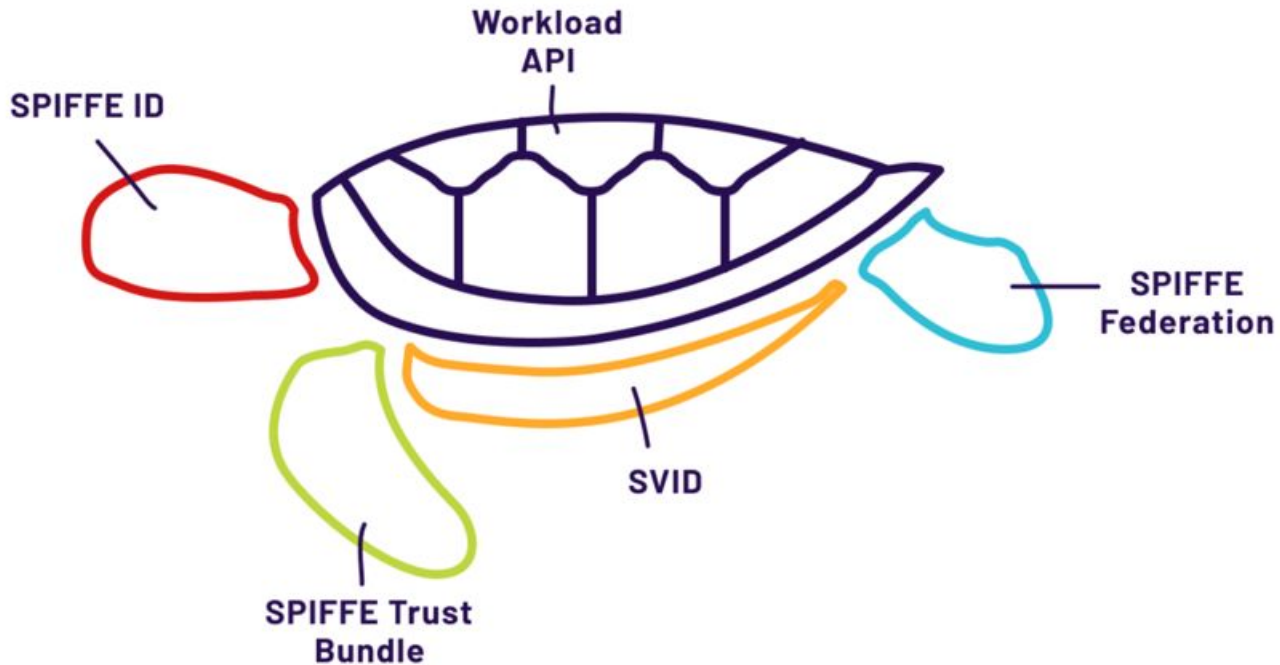
SPIFFE: Solving the Bottom Turtle Problem

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SPIFFE



Secure
Production
Identity
Framework
For
Everyone



Adopters and Integrations



GitHub

Pinterest

TikTok

Square

CRAY
THE SUPERCOMPUTER COMPANY

YAHOO!
JAPAN

NETFLIX

wise

twilio

Uber



Google Cloud



SPIRL

What Problems does SPIFFE Solve?

1. Reduce operational overhead of setup and deployment of workload identity
 - Automate credential lifecycle management at scale
 - Dynamically assigns identifiers + credentials based on attestation (SW, HW, Environment)
2. Reduce risk of credential compromise
 - All credentials are short lived
3. Alternative to Secrets
 - Replaces API Keys, OAuth secrets, etc.
4. Compatible with popular protocols
 - X.509 and JWT based authentication schemes.
5. Increases Resiliency, Avoids Downtime
 - Credential rotation is built-in
6. No standing access
 - No accounts where privilege accumulate
7. Cost Reduction through Automation
 - Automation reduces engineering toil, outages

SPIFFE Deployment

- Typically within Enterprises
 - Very large scale (Uber, Bytedance, Netflix etc)
 - Segment Environment by Trust Domains (functional, staging)
 - Federation supported across domains
 - Security posture dictated by enterprise policies
 - Open Source and Commercial Options Available
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- No known “Public SPIFFE Issuer”

Questions?