Sentima

Contextual Aware Converged Security Platform





Bring Security Closer to the Real Value Resource



Phase 1: Point-to-point zero trust



- Our team previously developed SPIFFE/SPIRE, a widely used open source set of tools for point-to-point zero trust security.
- SPIRE automatically distributes and rotates client and server certificates from a CA to every server/VM, user workload, or cloud API within large-scale distributed cloud infrastructure.
- These certificates are used to create mutual TLS connections.

- SPIRE checks the detailed properties of a workload including service account and binary signature. If they match a configured profile, it grants the needed credentials.
- SPIRE **authenticates** database connections, public cloud services like S3 and RDS, and **integrates** with Istio, SIGSTORE, Kubernetes, and many other systems.
- SPIFFE/SPIRE is the starting point for Sentima.



Point-to-point zero trust eliminates service accounts, secrets management, and helps mitigate persistent threats

Phase 2: Chain of Custody



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hotsos.org

Phase 3: Contextual Awareness



- With certificates for mutual TLS, and chain of custody encoded in signed tokens, each service can now make informed authorization decisions.
- Authorization can use an existing rule-based authorization engine such as Open Policy Agent or XACML, or **Sentima's own model-based authorization tool.**

• In model-based authorization, services use the **"who, what, when, where, and why"** of each incoming request (including the complete chain of custody) to make an authorization decision based on a learning model of expected behavior.

Incorporates intelligent decision making based on context and threshold scoring at each step of the way.





Team



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