



Elevating Security Intelligence

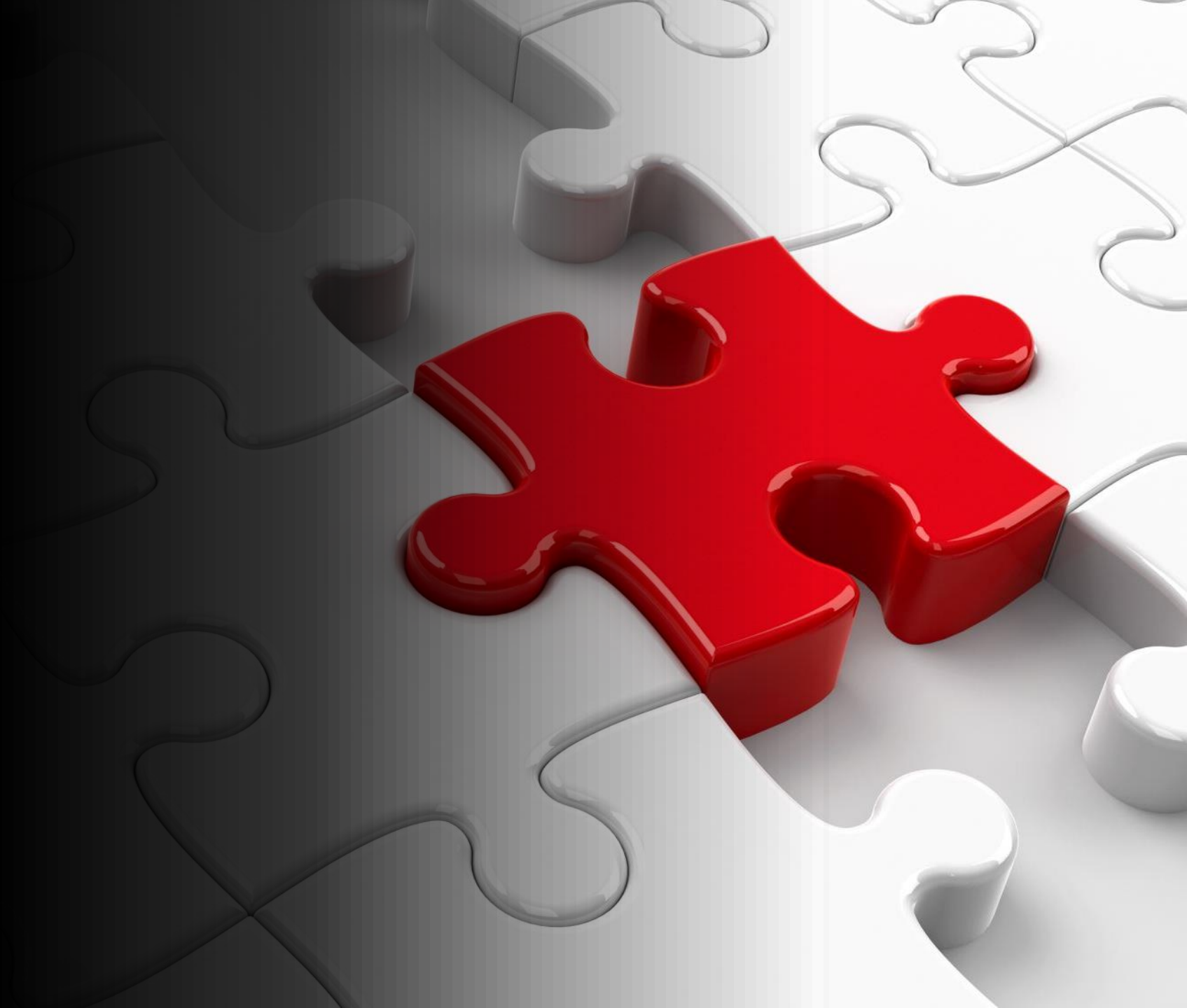
Incorporating uSIEM for
Comprehensive
Monitoring and Proactive Risk
Management

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Agenda

- SIEM
- Business as Usual
- uSIEM
- Loki / Grafana Stack
- Live Demo





SIEM

- Security Information
 - Log Aggregation + Storage (TSDB)
 - Log Visualization
 - Dashboards
 - Event Management
 - Anomaly Detection
 - Predefined rules
 - Machine Learning
 - Event Visualization
 - Alerting
 - Notification
 - E-mail
 - SMS
 - Slack
 - RBAC Access
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Business as Usual

- GUNet – Identity stack
 - IDM
 - SSO / MFA
 - RADIUS / uGuest
 - Security Monitoring
 - Log files, Syslog
 - No Visualizations
 - Event Management
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uSIEM

- Software as a Service
 - Based on Loki + Grafana (Docker)
- Security Information
 - Log Aggregation for GUNet services
 - SSO
 - MFA
 - RADIUS
 - uGuest
 - Log Visualization
 - Pre-Provisioned Dashboards
- Future
 - More GUNet Services
 - Event Management
 - Anomaly Detection
 - Alerting - Notifications
- RBAC Access
 - oAuth + MFA
 - Roles based on eduPersonEntitlement

Why Grafana?

- Open Source / Large Community
- Lightweight, Dockerized
- Easy integration
 - Docker Loki Logging Driver
 - Promtail tool for log processing
 - Integration with syslog
- Small footprint
 - 200MB RAM
 - 600MB Docker image stack
- Low disk requirements
 - Label indexing, not full indexing
 - Compression
 - GUNet stack: ~15MB/day



uSIEM Live Demo