PKI SPOTLIGHT®

RECOGNIZED BY GARTNER® RESEARCH
PKI POSTURE MANAGEMENT PIONEERS 2024

2025 FORTRESS CYBER SECURITY AWARD

Operational Resilience

Gain confidence in your PKI and digital certificate security with PKI Spotlight. With real-time monitoring, assessment, and alerting, know with confidence that your PKI environment is secure and working properly.

PKI Posture Management

Maintain the security and integrity of your PKI with visibility into configurations that can impact identity and encryption systems.

Threat Detection

Protect your PKI against malicious activity. Quickly spot any abnormal activity, vulnerabilities, and exploitable misconfigurations in your PKI environments.

Best Practices Included

By Design: Review and refine your PKI operational and configuration practices.

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SEEING IS SECURING

Near real-time monitoring and alerting of the availability, configuration, and security of Microsoft and non-Microsoft PKI and HSM environments — consolidated, and at your fingertips.

WHY SPOTLIGHT?

The distributed nature of Public Key Infrastructure (PKI) poses operational challenges that are not addressed by certificate lifecycle management or monitoring products. Most organizations struggle to manage their PKIs.

These factors increase an organization's risk to business disruption, lurking threats, and chances of making the news for the wrong reasons.

SECURING THE WORLD'S LEADING COMPANIES

Milbank · sasol · OGE · City of Seattle · Greenhill · ExxonMobil

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PKI SPOTLIGHT®

Core Capabilities

- Near real-time PKI and HSM monitoring for critical PKI functions, events, activity, and configuration changes with support for Microsoft ADCS and HashiCorp Vault.
- Integration with Splunk for streaming of events, best practice alerts, and threat alerts.
- Event and alert notifications via individual and digest email subscriptions to support Incident/Service Management and day-to-day operations.
- A centralized dashboard that shows active PKI component service status, events, detected vulnerabilities, and best practice alerts.
- Detection and remediation recommendations for best practices and threats from vulnerabilities, including PetitPotam and the exploits identified in the SpecterOps “Certified Pre-Owned: Abusing Active Directory Certificate Services“ white paper.
- More than 100 pre-configured rules to continually check the status of PKI and events against security and operational best practices for Online and Offline Certificate Authority (CA), Certificate Authority Web Enrollment (CAWE), Network Device Enrollment Service (NDES), Host, and Online Certificate Status Protocol (OCSP) configurations.
- A topology view to quickly asses PKI status.
- Secure accounts using SSO with SAML integration.

BEST PRACTICES

- Align PKI component configurations with organizational or industry standards.
- Centralized dashboard to ensure components are configured and operating per design.
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OPERATIONAL RESILIENCE

- Check events for signs of availability, pre-failure, and failover states.
- Get alerted on CRL errors and detect pre-failure CRL states, including pending expirations.
- Checklist of dependencies to detect pre-failure conditions and to ensure that the CA is servicing requests.
- Get notified of any PKI-related service shutdown events.
- Get alerts on CA's ability to sign requests.
- Scheduled and automated granular health checks on NDES and associated IIS servers.
- Stay on top of Microsoft NDES availability and HashiCorp Vault.
- Verify against desired operational state across network segments and Microsoft Active Directory forests.

PKI POSTURE MANAGEMENT

- View Multi-Vendor Hardware Security Module (HSM) configurations for both nCipher (Entrust) and Luna (Thales).
- View Cryptographic provider configurations.
- View Service Principal Names (SPN) and TLS bindings for Microsoft NDES IIS application pools.
- View Certificate Revocation Checking configurations.
- Password and dynamic password enforcement for all Microsoft NDES roles.
- View Key Recovery Agent status and configurations.
- View PKI Server Firewall modifications and current operational state.

THREAT DETECTION

- Near real-time alerts on the presence of PKI vulnerabilities and for exploitable Certificate Template misconfigurations.
- Identify out-of-the-ordinary activities in PKI-related Active Directory containers and cryptography.
- View unusual CA permission and revocation activities.
- Visibility into CA Certificates that are published and trusted in Active Directory.
- Checks for exploitable certificate template misconfigurations to prevent escalation of privileges and man-in-the-middle attacks.

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