Penta Sentinel

Next-Generation Security Monitoring

Penta Sentinel is a comprehensive Security Information Event Management (SIEM) solution crafted by Penta's cybersecurity experts using state-of-the-art technologies, customised for each of our clients and delivered as a managed service backed by a 365/7/24 Security Operations Centre and built-in regulatory compliance.

Penta Sentinel is part of Penta's IT Risk Solutions Portfolio, and an extension to Penta's managed private cloud and IaaS offerings, enabling businesses to stay alert and secure their operations from emerging threats. Hosted at Penta's data centers in Dubai and Geneva, Penta Sentinel combines best-in-class software with IT expertise that is trusted in running and maintaining IT infrastructures for some of the world's leading financial organisations.

DATA COLLECTION

Penta Sentinel collects logs from across your entire IT infrastructure in a systematic way using a number of methods including network traffic monitoring, system event logs forwarding from servers, endpoints, applications, firewalls, anti-virus and anti-malware systems, in addition to dedicated agents configured to track specific types of flows, transactions, and interactions.

CORRELATION, ANALYSIS AND ALERTS

Penta Sentinel aggregates and normalises all the data ingested and then parses and analyses this data to detect anomalies and suspicious activities that might signal real threats. Our Security Operations Centre (SOC) experts receive the alerts in real time, analyse the data aided by an advanced set of tools and methods, sifting through false positives and negatives to identify the real threats and respond in real time.

USER BEHAVIOUR ANALYSIS

Insider threats are a growing concern as they can have a greater impact and might take months or more to discover. That is why Penta Sentinel features user behaviour analysis, both manual and automated, designed to detect insider threats that may have been able to bypass firewalls, anti-virus and anti-malware tools.

SECURITY OPERATION CENTER

Penta Sentinel's SOC is the central hub where all the data and insights are channeled and reviewed by our team of top cybersecurity experts who are monitoring and evaluating the events 365/7/24, and handling threat detection and response in real time. With Penta Sentinel you get your own outsourced SOC function, reducing the load on your internal teams and on your IT budgets.

THREAT INTELLIGENCE

Apart from the anomaly-based threat detection, Penta Sentinel features signature-based threat intelligence that is enhanced by leveraging multiple sources of network-based and host-based intrusion detection systems, and multiple threat intelligence sources such as MITRE ATT&CK®, Snort, Zeek (Bro), and YARA.

REPORTING

Penta Sentinel features automated reports that are reviewed and signed off by our cybersecurity experts, giving you full visibility over your security monitoring and the health of your IT infrastructure. Standard reports include elements such as user authentication, security events, risk reporting, email security, and network security.

REGULATORY COMPLIANCE

With Penta Sentinel being a hosted solution at Penta's data centres in Dubai and Geneva, regulatory compliance is built-in from day one for all the data captured and retained, thanks to Penta's compliance-ready infrastructure.

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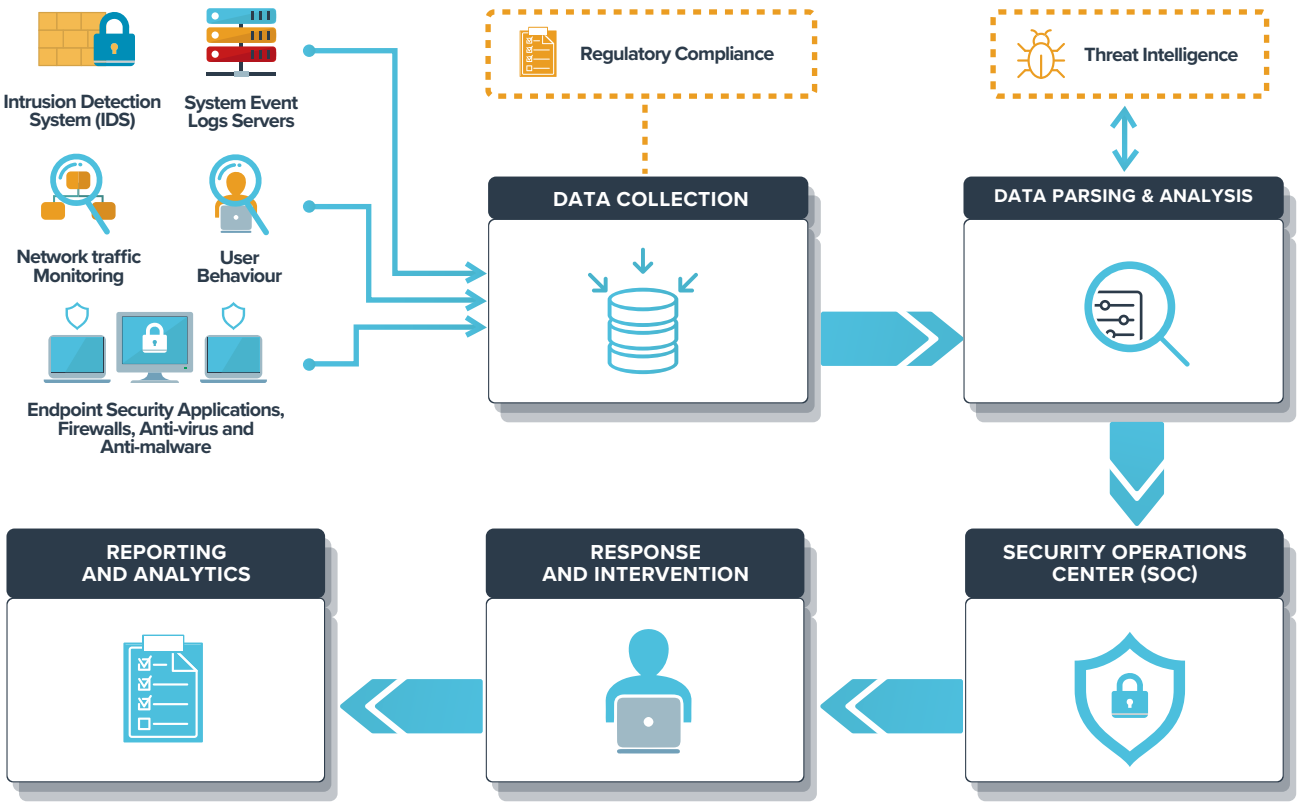
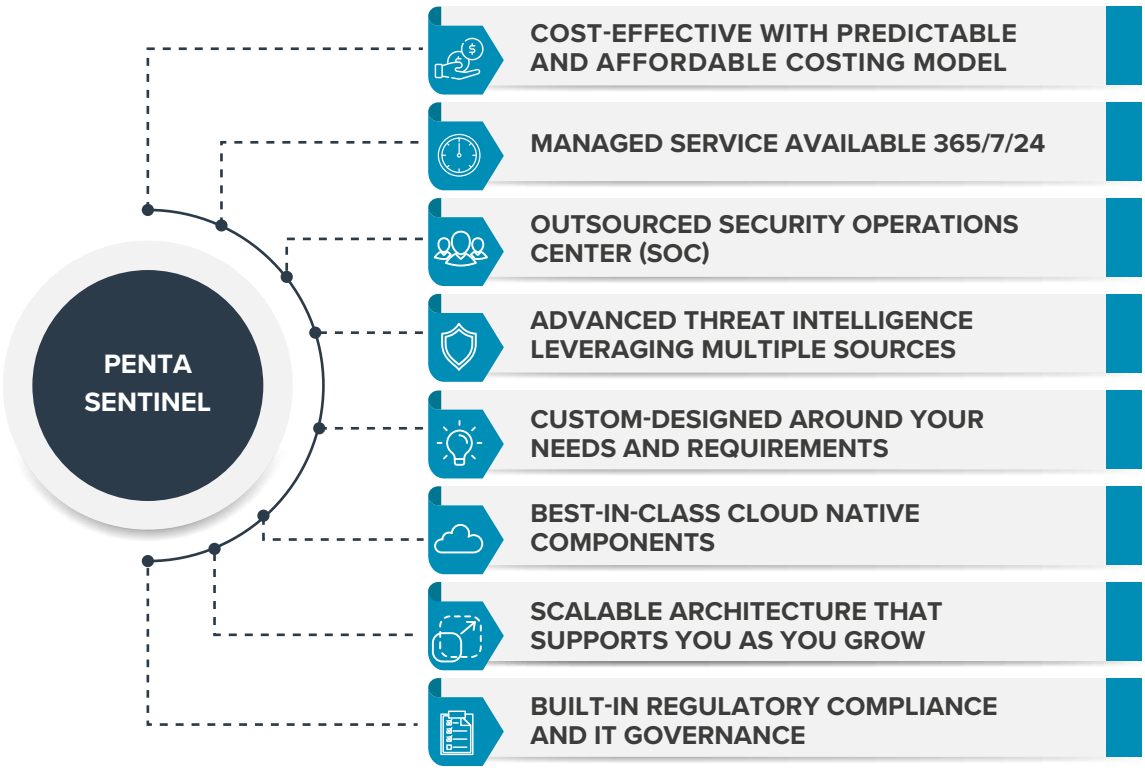
Solution Overview



Why Penta Sentinel?



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Penta Sentinel vs Competition

	PENTA SENTINEL	TRADITIONAL SIEM
CONFIGURATION & DESIGN	✓ Rapid and easy deployment with a minimal footprint	✗ Lengthy, complex and costly implementation process
THREAT INTELLIGENCE	✓ Access to several world class threat intelligence sources	✗ Access to fewer threat intelligence sources with higher undetected threat risk
MONITORING AND MANAGEMENT	✓ Automatic monitoring based on signature and behavioural activity complemented by Penta SOC escalation and response team	✗ Requires a dedicated team of IT professionals often working shifts on a 365/7/24 basis
REPORTING	✓ Comprehensive and simple to understand reporting. Available on a scheduled or ad-hoc basis for management and technical team	✗ Requires IT security technical skills to interpret reports and threats
REGULATORY COMPLIANCE	✓ Built-in compliance and IT governance	✗ Lacking out-of-the-box compliance or available at additional cost
HOSTING	✓ On-premise or on Penta's private cloud in data protected jurisdictions	✗ Usually on public clouds prone to data breach risks, or private clouds in non-protected jurisdictions
PRICING MODEL	✓ Transparent monthly price per IP address monitored	✗ Multiple factors, often combining data sources and data volume, resulting in complex pricing
OVERALL COST	✓ Affordable low entry-point at a fraction of legacy SIEM running costs	✗ High entry-point, unpredictable license and maintenance cost

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