



Managed Detection and Response



Our Platforms

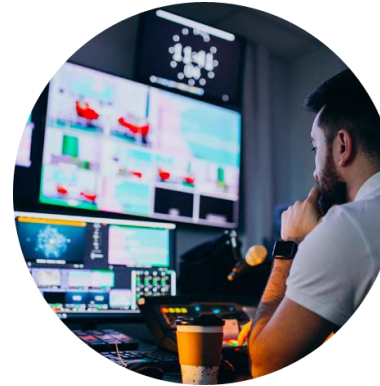


Rajeev Shukla, Founder

- 25 years building IT products
- Leadership roles in Sun, CA, Quark and more
- Wide experience across US, India and Europe
- Founded Castellum Labs over three years back
- Commercially successful product/service portfolio

Portfolio

- Application Security & Governance
- Threat Intelligence & Threat Management
- SOC Monitoring (Managed Detection & Response)
- Cloud Security Solutioning and Cloud Security Operations



Foundation for Design

- Reporting is not Monitoring
- Data breaches don't hurt as much as ignorance
- Short-term service engagements deliver no real value
- Cybersecurity needs far more human intelligence than expected

watchOUT

Darkweb Monitoring

threatNiXD

Next Gen SOC Monitoring

appFORT

Continuous Application Security

True Managed Detection & Response

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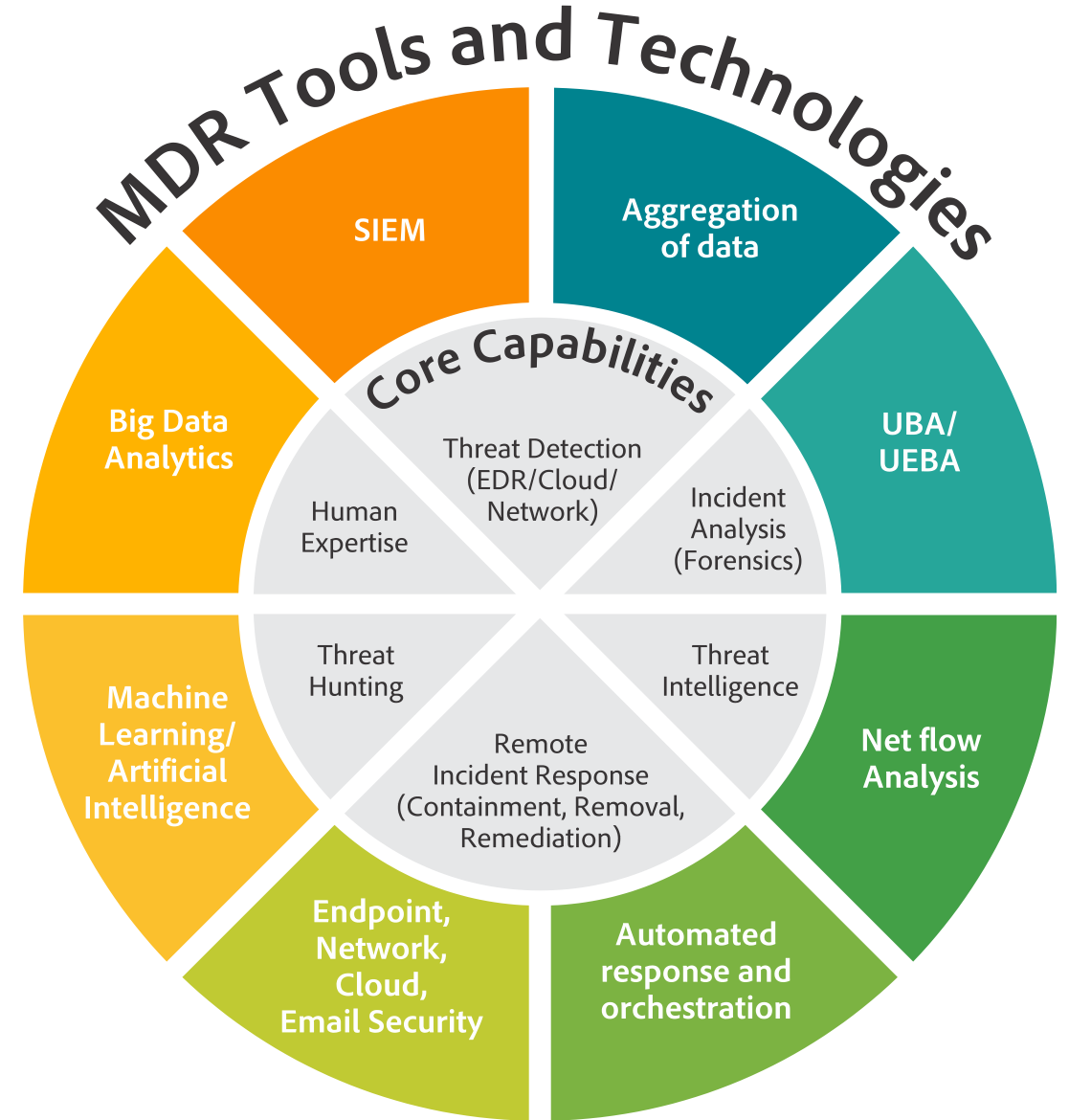
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Why Managed Detection and Response

Firewalls, intrusion detection systems, endpoint protection products, threat intelligence services, EDR, SIEM, UEBA, SOAR, IOA, IOC, UTM, IR, SOC, and many more technologies originated in response to emerging threats. Yet, as IDC says,

“The perpetual shortage of cybersecurity professionals has led to a proliferation of incomplete or misconfigured security solutions. Even though cybersecurity budgets keep increasing, attackers still are often able to break through the patchwork of disparate systems to find their mark”





Why another MDR



Current MDR players focus only on large enterprise customers

- Cost and complexity of their technology platforms
- Multiple tools and solutions – integrated or acquired
- Vendors also need mature customers to be effective



Engagement and implementation is a challenge

- Legacy log and SIEM solutions exist in different stages of maturity
- In-house cybersecurity resources may not be up-to-date
- Getting to “go” is extremely time, money and people heavy



Closure of reported incidents is extremely poor

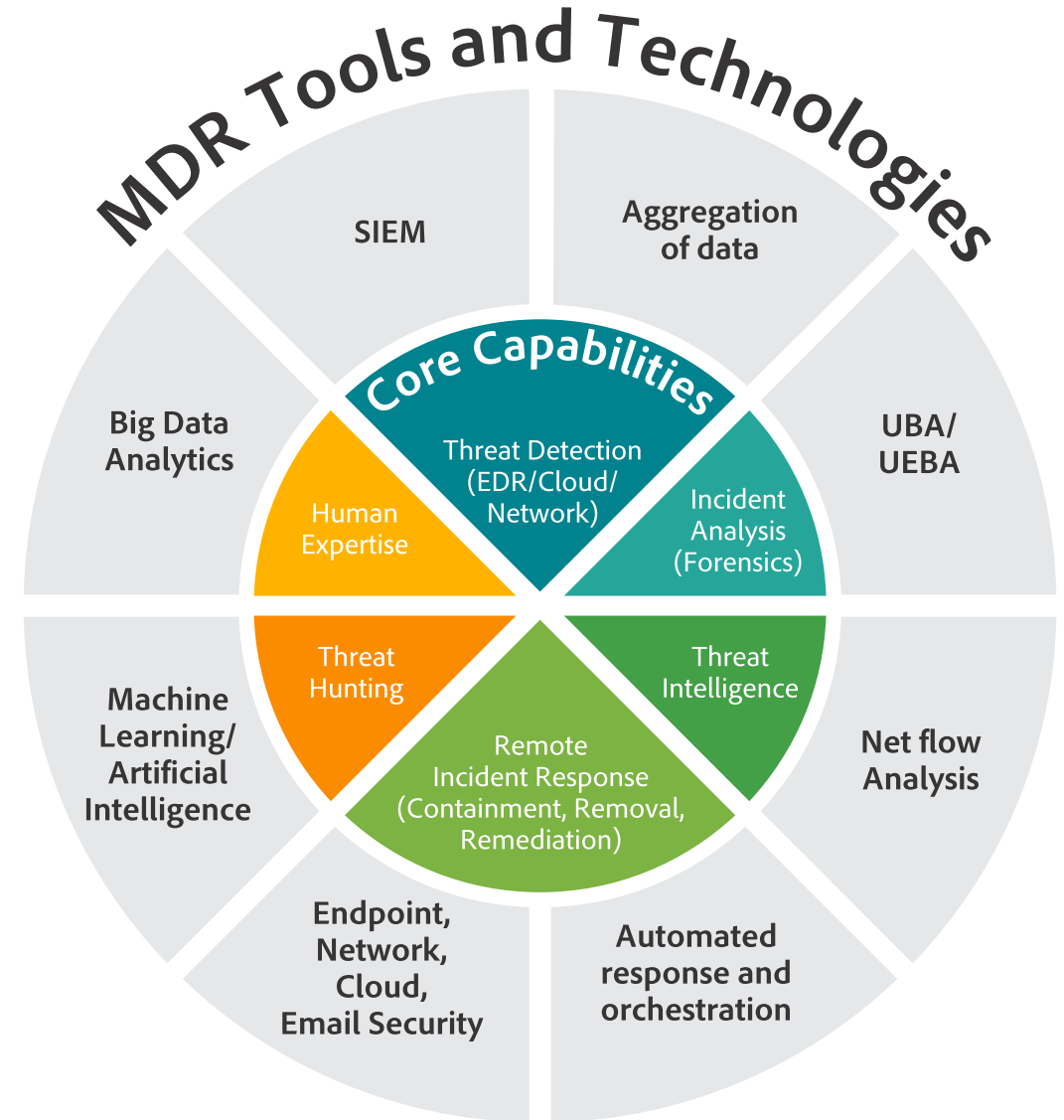
- Acknowledgement and coordination falls through org cracks
- Slow manual response by owners and product support vendors
- Inadequate or poor automated response capability



Where we Stand Out

Automation is essential to collate, manage and classify massive amount of data. Yet platforms that rely on automation alone are always playing catch up with threat actors who constantly devise means to avoid automatic detection. We don't keep building obsolete castles with your money:

Human actors, external threat intelligence, threat hunting, manual threat detection, forensics and (what is generally poorly managed) Incident Response – manual and automated – these are our focus areas, since the tools and technologies are already built into our threatNiXD platform.





Not just another MDR



Threat Intelligence

All the data in the world is useless without the intelligence to extract actionable signals from the noise. We have developed, and continuously refine and add to, a massive library of machine and human executed playbooks to sense, target and pick out risks, exploits and weaknesses.



Contextual SOAR

Security orchestration, security automation and security response - the core elements of Security Orchestration and Response are at the heart of threatNiXD. And with our IoC analysts you get true **contextual** SOAR.



NBAD Alerts

Once a baseline is established the Network Behavior and Anomaly Detection built into threatNiXD tracks critical network characteristics like traffic volume, bandwidth use and protocol use. IoC analysts filter out false negatives for actionable alerts.



Integrated UEBA

Detect insider threats. Detect compromised accounts. Detect changes in permissions and creation of super users. Detect breach of protected data. Detect large data downloads. While not a complete UEBA solution, you get this as a basic capability.



INCIDENT Management

We've seen real threat alerts getting lost due to different formats, channels and reports. threatNiXD is delivered in a single-pane-of-glass model that supports true management, control and governance of alerts.



Designed for Man and Machine

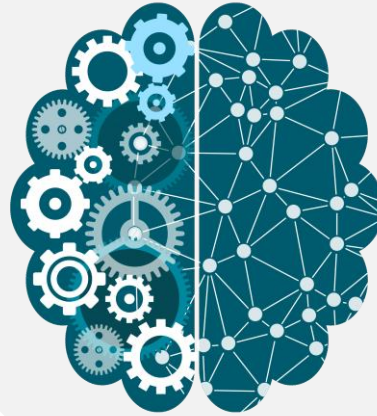
IOC ANALYSTS

Infuse Data with **Meaning**
Deep Correlation. Real Time.



ALERTS

False Negatives **Cleaned**
MITRE Mapped. Multi-channel.



DATA

Large Scale Data Collection
Redundant. Resilient. Secured.



MONITORING

Centralized Reporting
Act. Monitor. Manage. Govern.

Introducing the threatNiXD Platform

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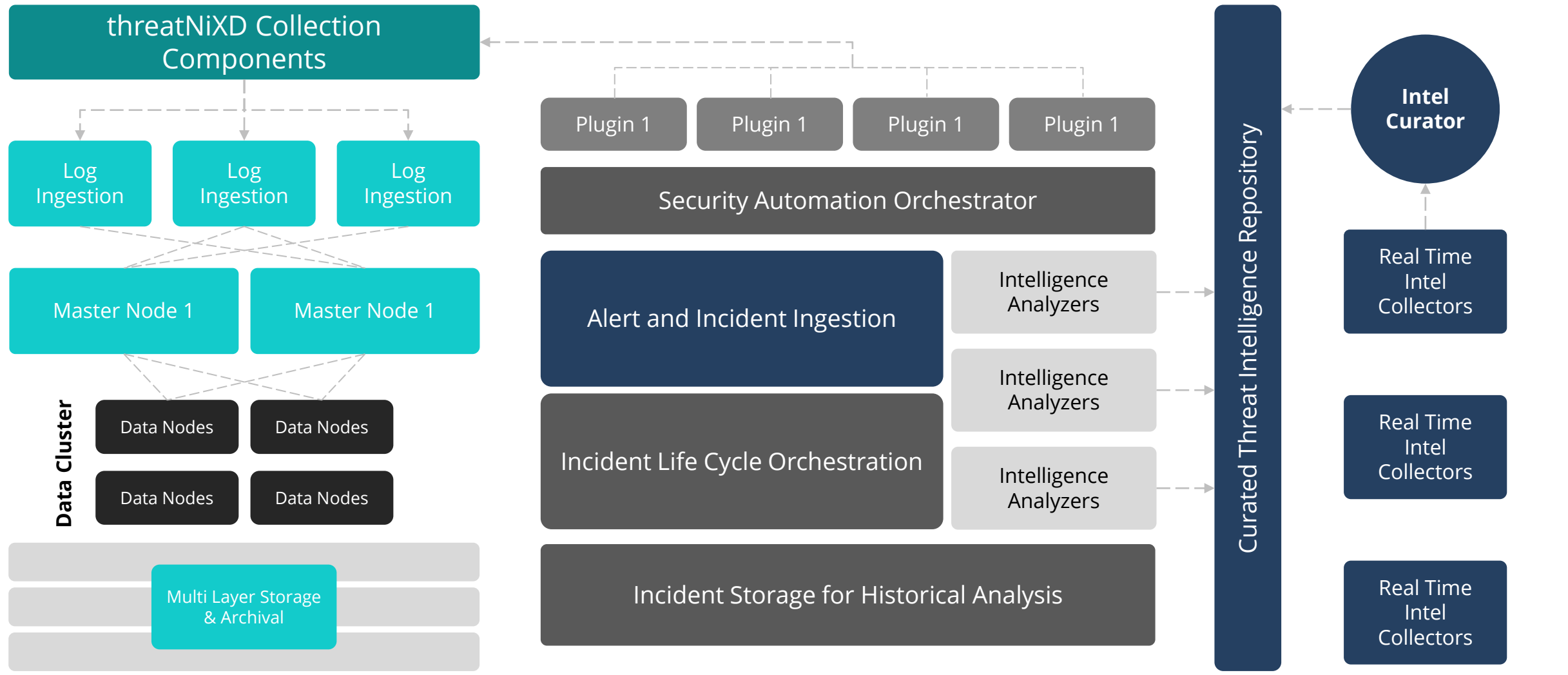


Representative Source List

Sample Event Sources	Type of Event/Logs
DNS Resolution (Route 53)	Query Logs
Load Balancing Infra (ELB/ALB/CLB)	Access Logs
Base Computing Resource (EC2)	OS logs (Host & Malware Logs)
VPC (Network Level Events)	Flow logs
Queue Systems (Redis)	Metrics
Databases (Oracle DB, Mongo DB, MySQL)	Database Audit Logs / Query, Error, Slow query, general logs
Container Management (Kubernetes)	Container Logs and Container Management System Log
Analytics Infra (Dynamo DB)	Metrics
Storage and Content (S3 Bucket)	Bucket Level Operations
Endpoint Protection Logs	IDS/IPS/AV/DLP Events and Alerts
Windows / Linux / *NIX	Syslogs, Win Event Logs
Application Logs	Custom Logs of Applications in Enterprise
Certificate Infra Logs	Certificate Authority Logs from Enterprise

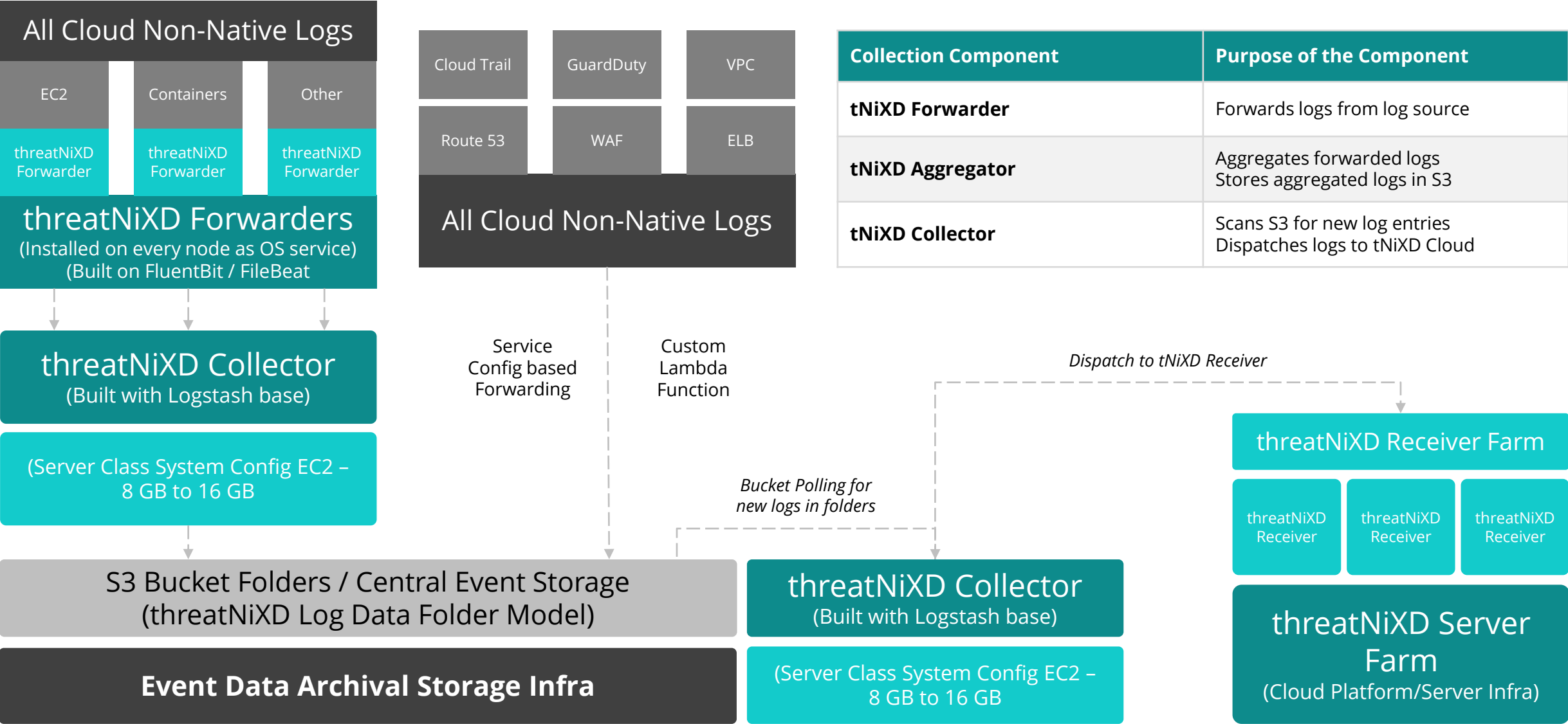


Data Flow and Analysis



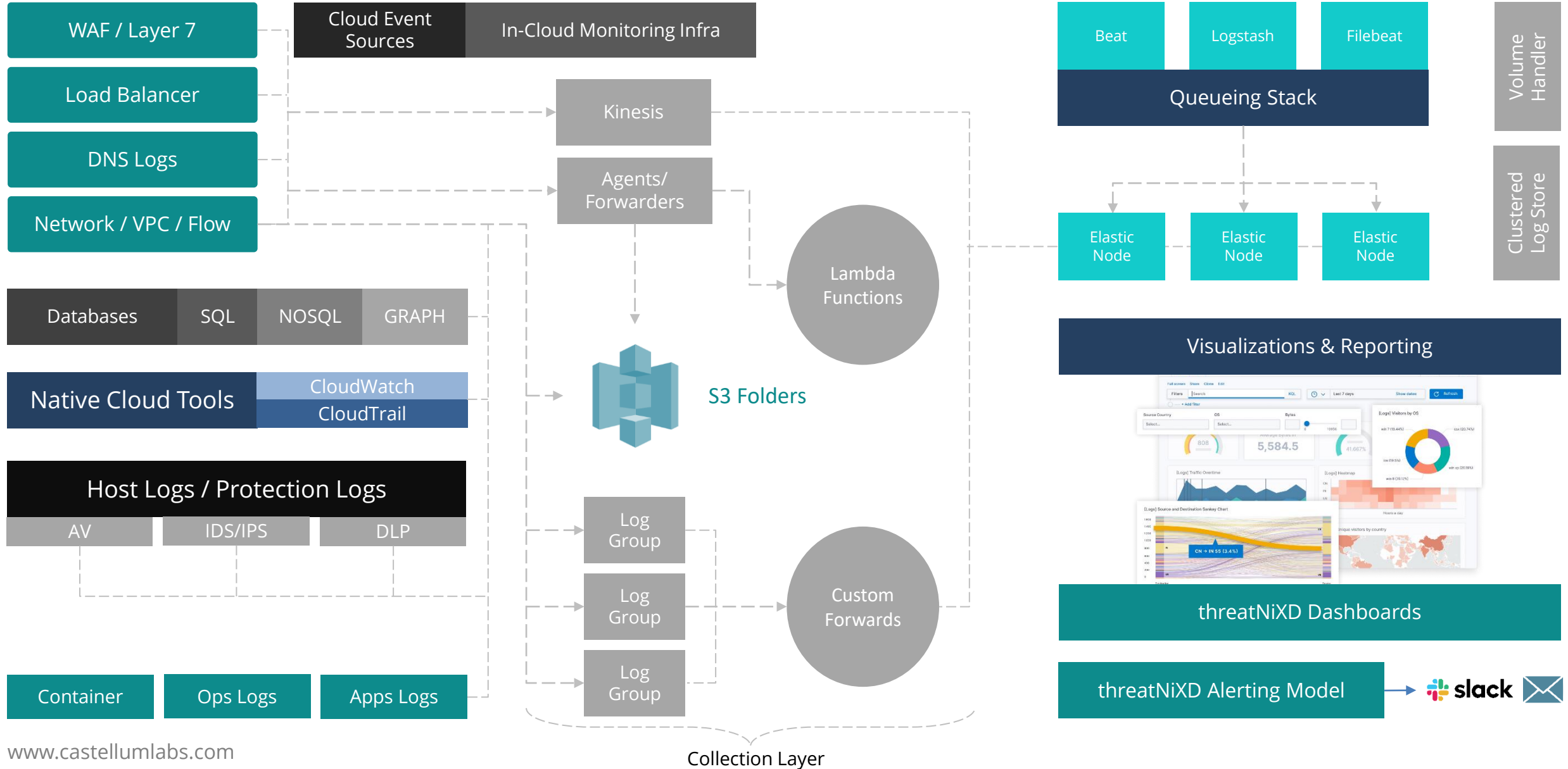


threatNiXD Solution Model








Architecture



Reports, Dashboards, Incident Closure



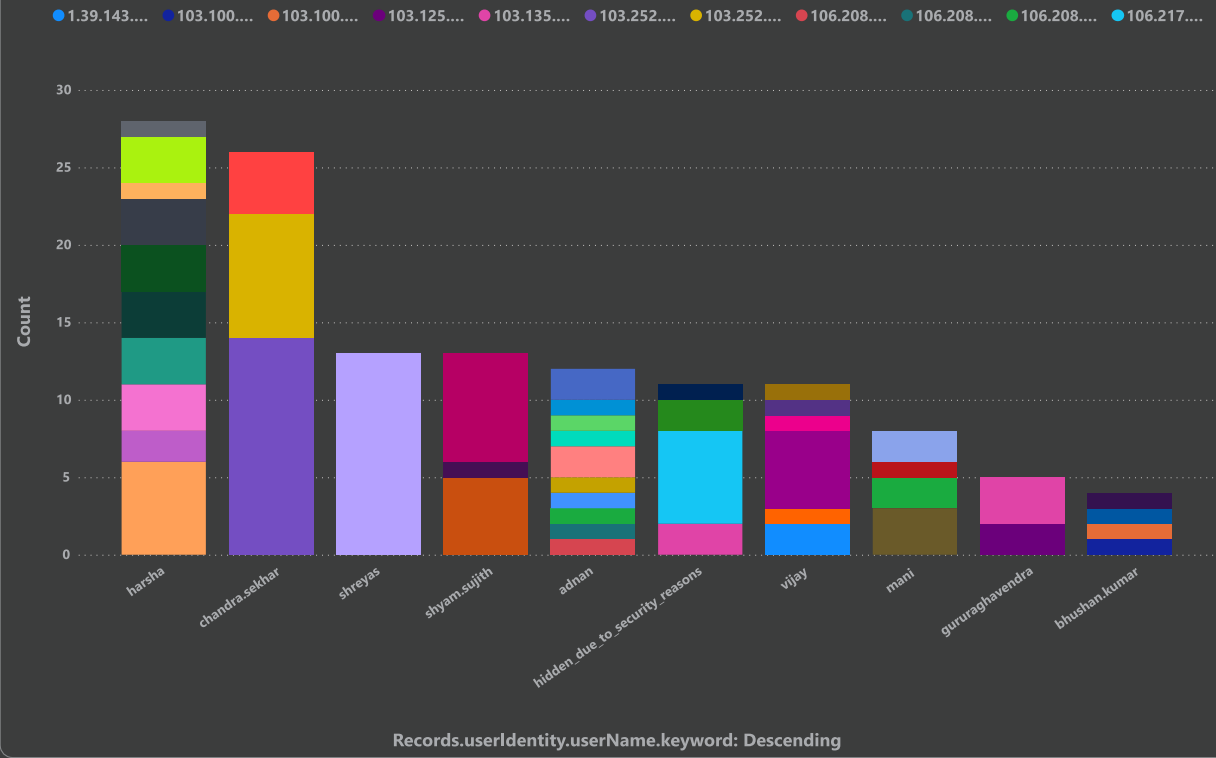
Representative List of Reports

 Main Dashboards	 Alerts	 Attack Scenario DB
Network Attack Dashboard	Network Alerts	Initial Access
Access Monitoring	Access Alerts	Persistence
Host/Endpoint Dashboard	Log Failure Alerts	Privilege Escalation
Operational Activity	Critical Ops Alerts	Defense Evasion
DNS Dashboard	Malware Alerts	Credential Access
Web Dashboard	Web & API Alerts	Discovery
		Lateral Movement
		Collection
		Exfiltration
Threat Category Alert Monitoring	Alert Data Navigation	MITRE F/W Scenarios

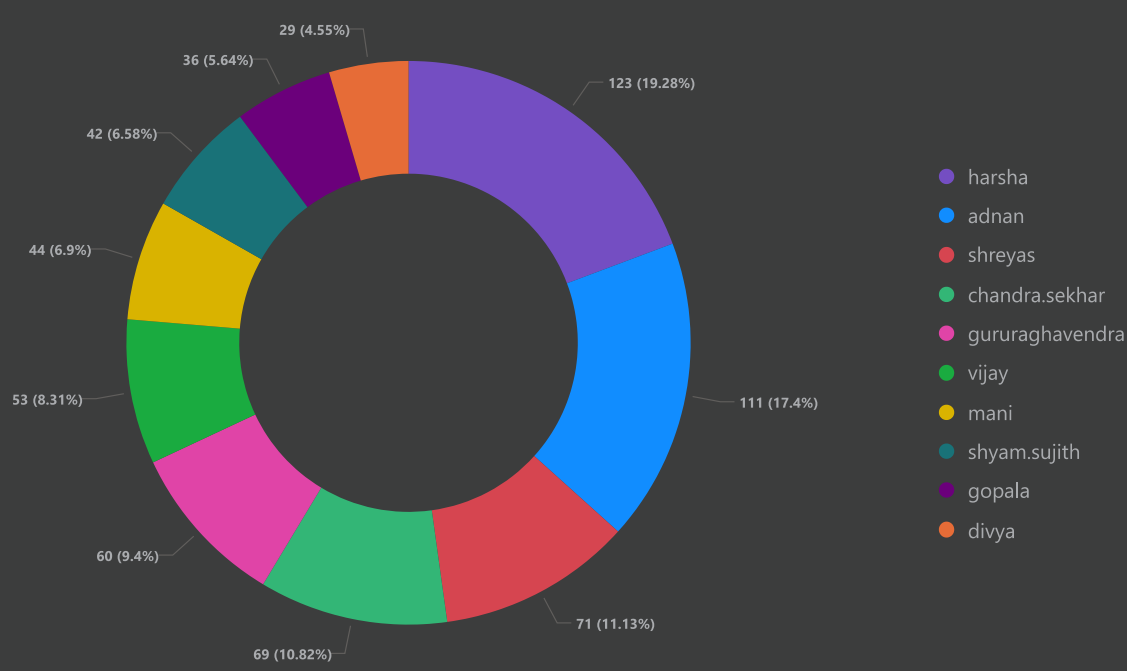


Access Dashboard

Multiple Login Failure IAM (tNiXD Access Attack WEB IAM)



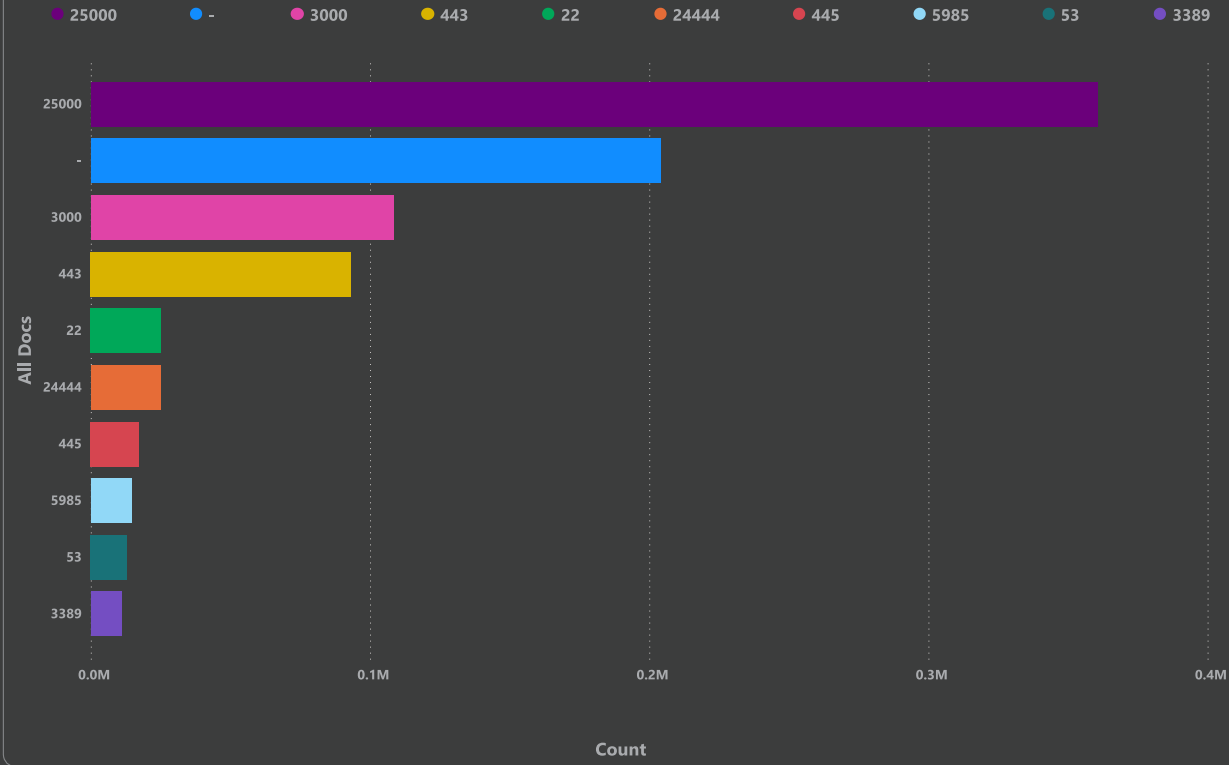
Logged In User IAM (tNiXD Access Attack WEB-IAM)



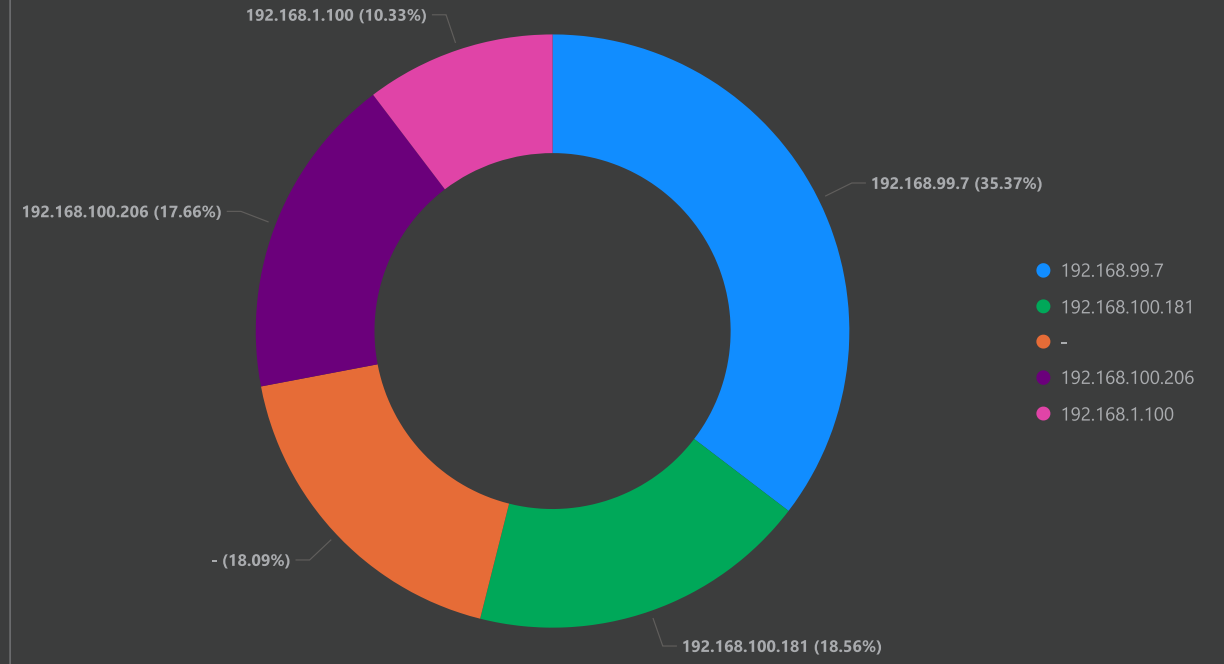


Network Dashboard

Network Access Accepted Port

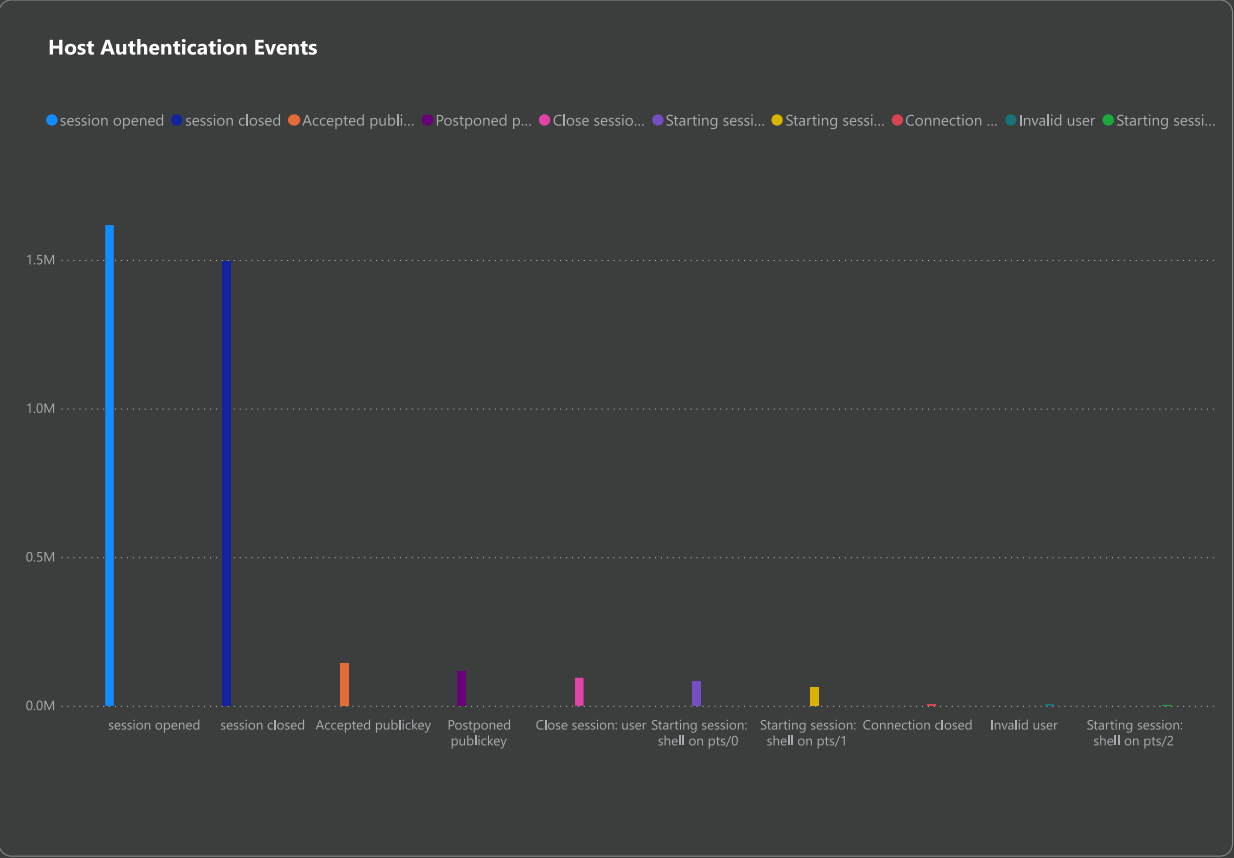
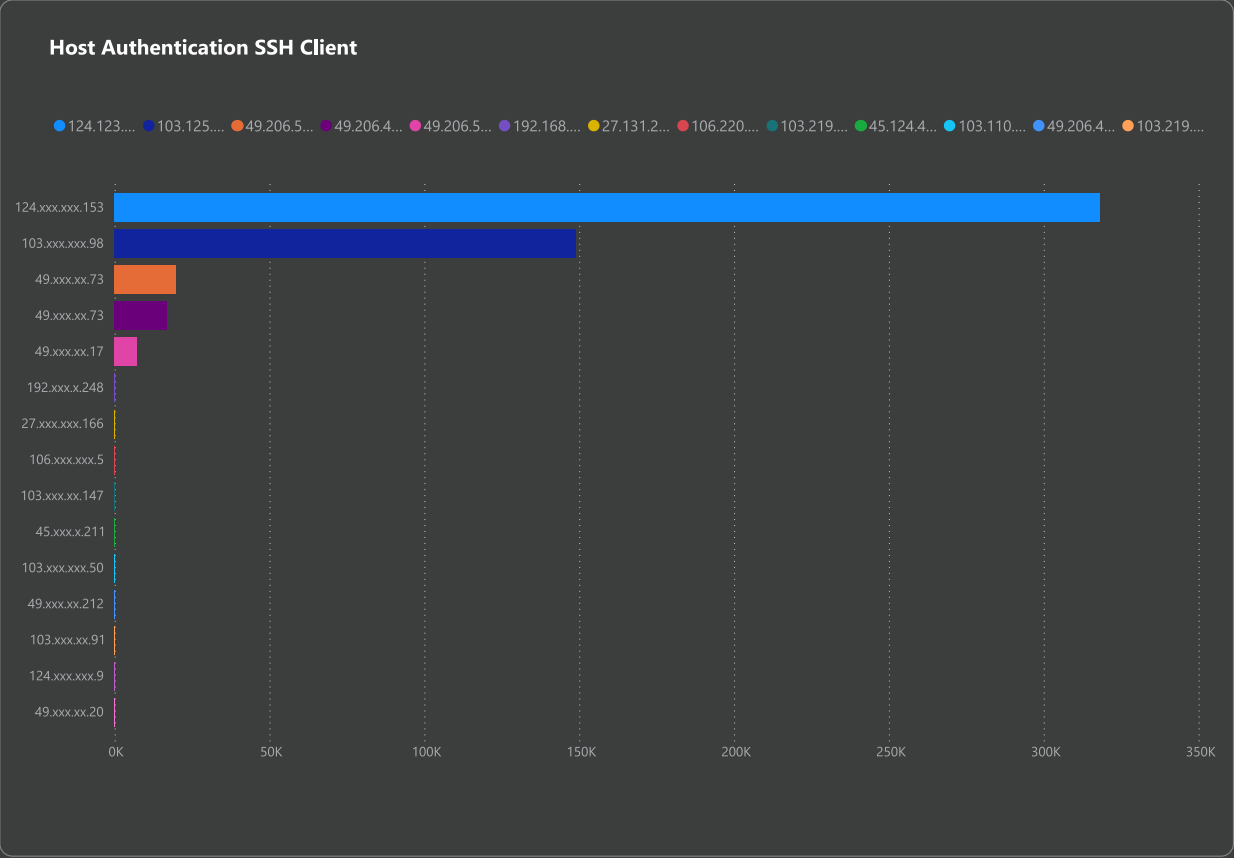


Network Access Rejected IP





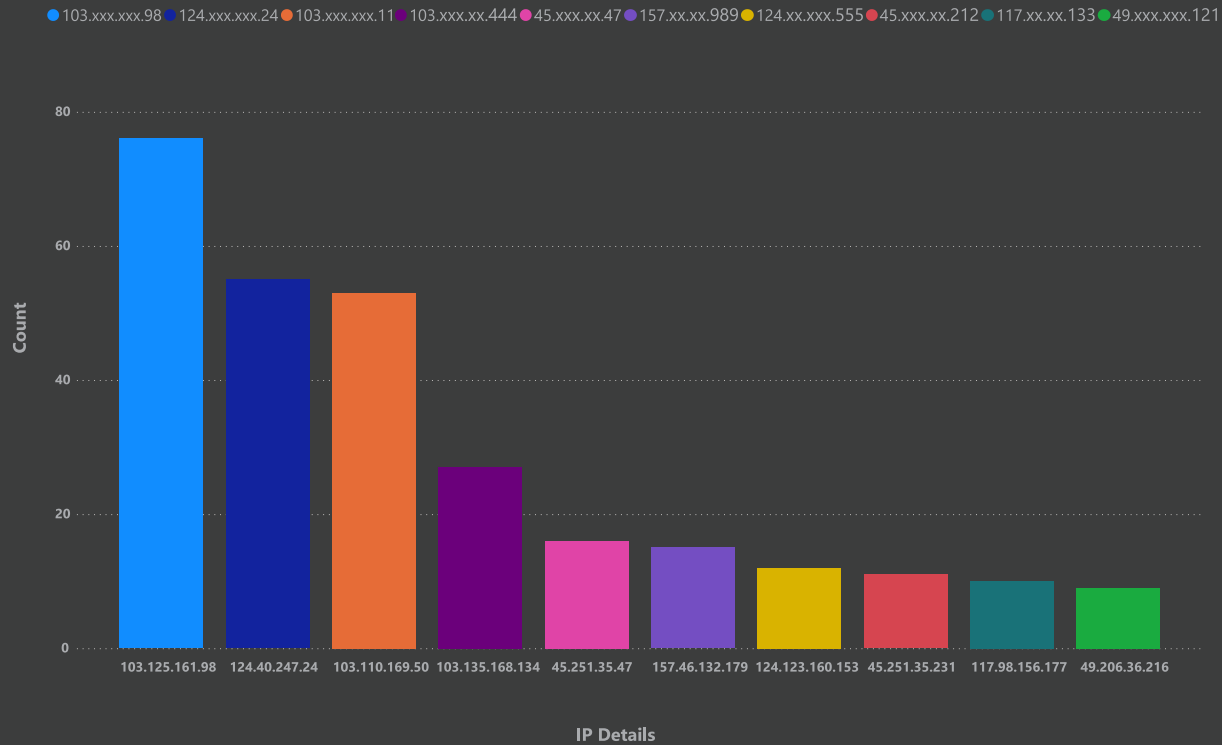
Host Security Dashboard



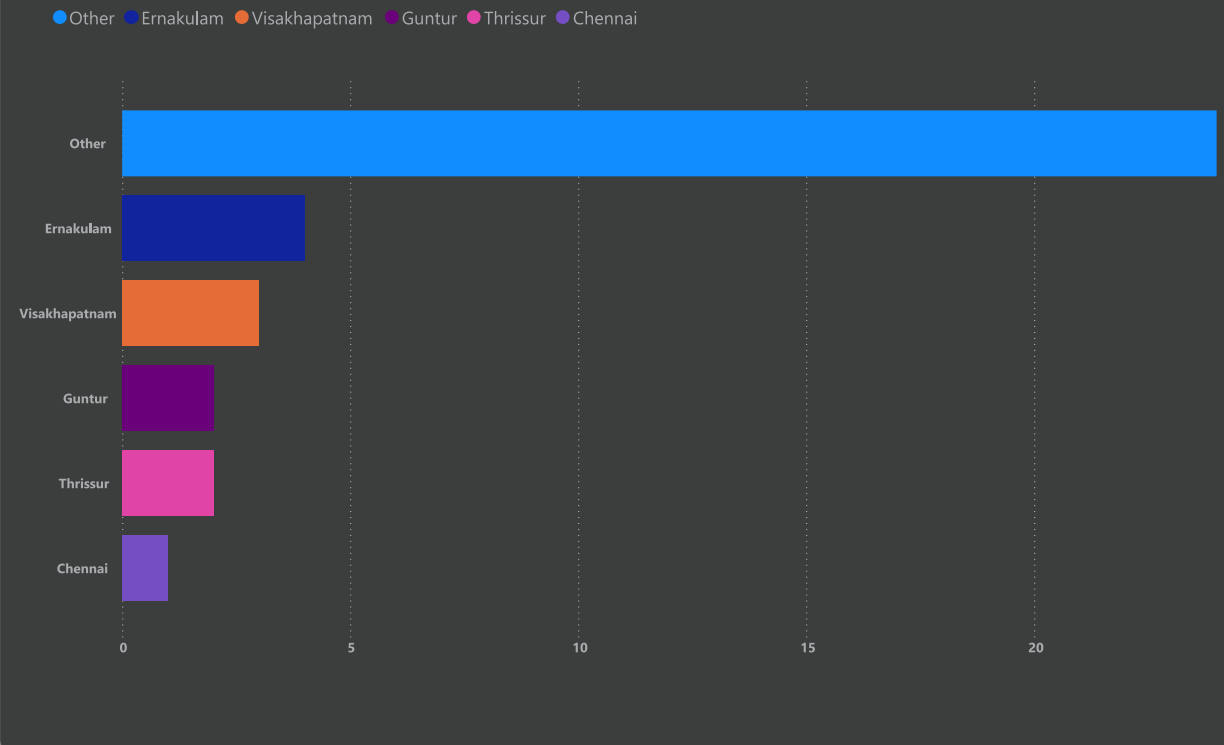


Infra Security Dashboard

Start Instance IP Details



Stop Instance IP City Location



In Conclusion

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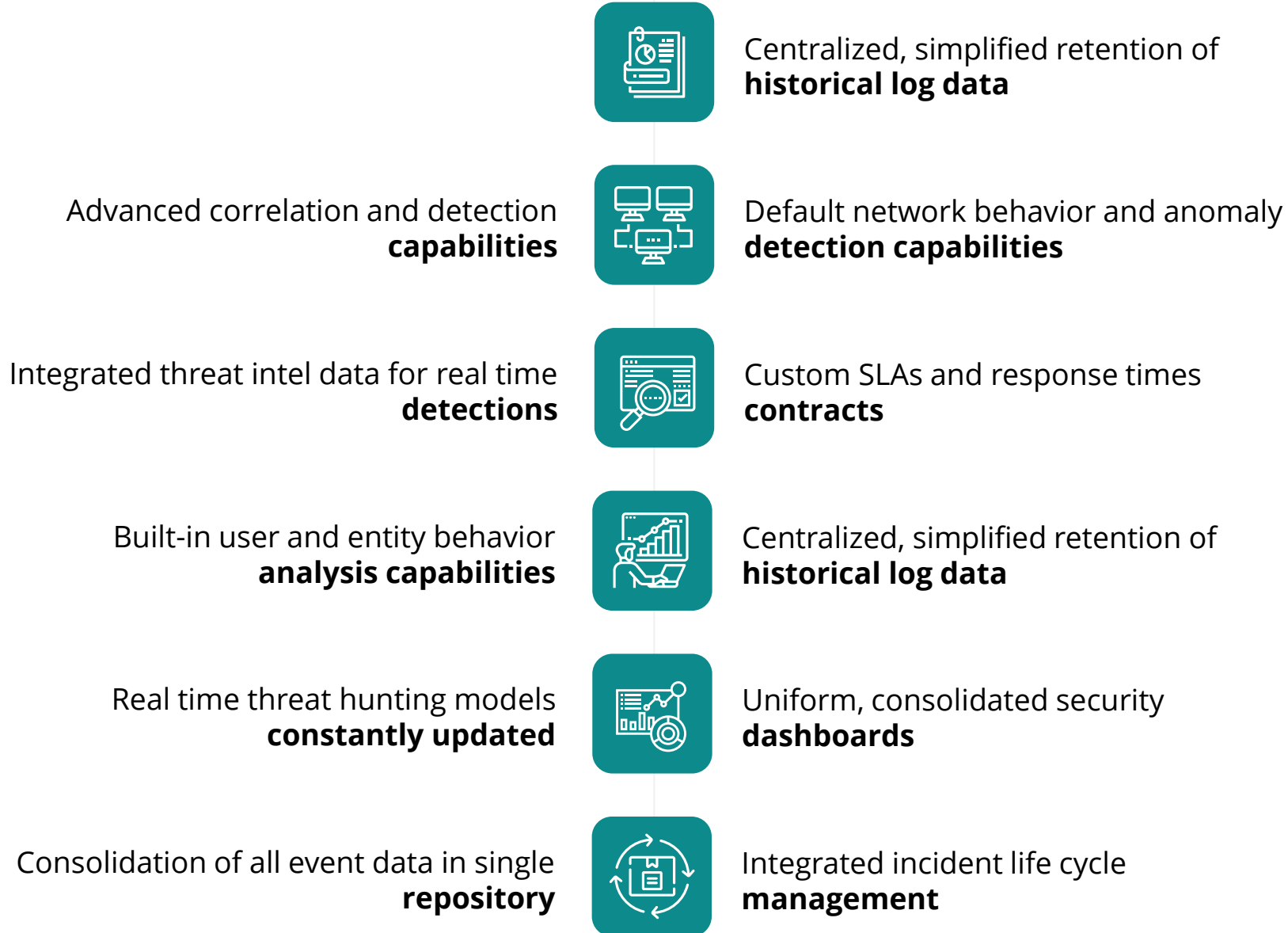


MDR on threatNiXD





Only MDR With





MDR Options

	threatNiXD Secure	threatNiXD Secure +	threatNiXD Preempt	threatNiXD NxtGen
Pricing Model	Per Device Per Month Pricing	Per Device Per Month Pricing	Per Device Monthly Pricing	Per Device Monthly Pricing
Usage Model	Subscription Model	Subscription Model	Subscription Model	Subscription Model
Payment Plans	Half Yearly, Yearly	Quarterly, Half Yearly, Yearly	Monthly, Quarterly, Half Yearly, Yearly	Monthly, Quarterly, Half Yearly, Yearly
Service Element	Service Availability	Service Availability	Service Availability	Service Availability
24x7 Monitoring				
Shift Coverage	No	Yes	Yes	Yes
Alert Based Coverage	Yes	Yes	Yes	Yes
Eye on the Glass Coverage	No	No	Yes	Yes
Customer threatNiXD Portal				
Incident Tracking	No	Yes	Yes	Yes
Incident Reporting	No	Yes	Yes	Yes
Other Reports	No	Yes	Yes	Yes
Asset Management	No	No	Yes	Yes
Default Monitoring Coverage (Alert Based)				
Attack Monitoring	Yes	Yes	Yes	Yes
AAA Monitoring	Yes	Yes	Yes	Yes
Malware Monitoring	Yes	Yes	Yes	Yes
Compromise Monitoring	Yes	Yes	Yes	Yes
Network Behavior Monitoring	Yes	Yes	Yes	Yes
Suspicious Behavior Monitoring	No	No	Yes	Yes
Anomalies Monitoring	No	No	No	Yes



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