#### HEXAWARE

### **Hexaware Security Services - Snapshot**

#### Customers - 80+

 24x7 MSSP servicing multiple customers across verticals & geographies offering the complete gamut of security services.

#### **Employee Spread**

- 300+ Security SME's
- 24% Americas, 9% EMEA, 67% APAC

#### **Scale of Operations**

- 100,000+ Signals monitored
- 5,000+ identifies & Governed.
- 35+ SOC Delivered customers.
- 28+ GRC Audit projects completed
- Certified Professionals carrying:
- CCSA, SCSA, ECSA, CCSE, CCNP, CEH, CCDA, CCSE+, CISSP, CISA, CISM, CRISC, TOGAF, CCIE, ISO27K certifications

#### **Security Service Offerings**

#### **Predictive Security**

- Extended Detection & Response
- Threat Modelling
- User Entity Behavioral Analytics

#### **Preventive Security**

- Privileged Identity Management
- Identity Governance & Administration
- Data Protection
- Certificate & Key Management
- Endpoint Security
- Network & Perimeter Security
- Dark Web & Cyber Brand Protection
- Security User Awareness

#### **Detection Security**

- SIEM & SOC
- Sandbox Detection.
- Application Security
- Vulnerability Management & Penetration Testing
- Red Teaming & Incident Response

#### **Remediation Security**

- Endpoint Detection & Response
- Security Orchestration & Automated Response

#### **Compliance & Reporting**

- Evidence Collection & Reporting
- Security Assessments to frameworks and standards
- Compliance Dashboarding
- Continuous cloud compliance

#### **Service Delivery Excellence**

- Next Generation Security Operations Platform
- Security Platform as a Service for SIEM, SOAR, VM, EDR, XDR etc. aligned to business needs.
- >35% Automation-based efficiencies
- Our Tensai for SecOps frameworks leverages industry best practices and frameworks
- Full Stack SMEs with continuous skill upgrade
- COE lab Access for expert advises
- Red team and Blue team for Emergency responses

#### **Sample Engagements**





















# **Our Security Service Themes**



# Predictive Security Posture

- ML/Al to Empower customers with predictive threat detection.
- Actionable Insights and Early Warning
- Behavior-Based Anomaly Detection
- Advanced Threat Intelligence Integration or Proactive Threat Hunting and Detection



#### tensai Sec Ops Framework

- Governance Framework based on Industry best practices and our experience
- Realigning the team structure to meet Security Posture Objectives instead of delivering security activities
- Data Driven Insights



# Automation Driven Operations

- Rapid Incident Response and Remediation
- Continuous Compliance and Policy Enforcement (Compliance As A Code)
- Automated Threat Detection and Hunting



# Focus on Digital Identity Assurance

- Identity Governance and Compliance
- Prevention of Identity-Related Threats
- Enhanced Identity
   Verification
- Adaptive Risk-Based Authentication
- Zero Trust Architecture
- Identity Fabric Immunity

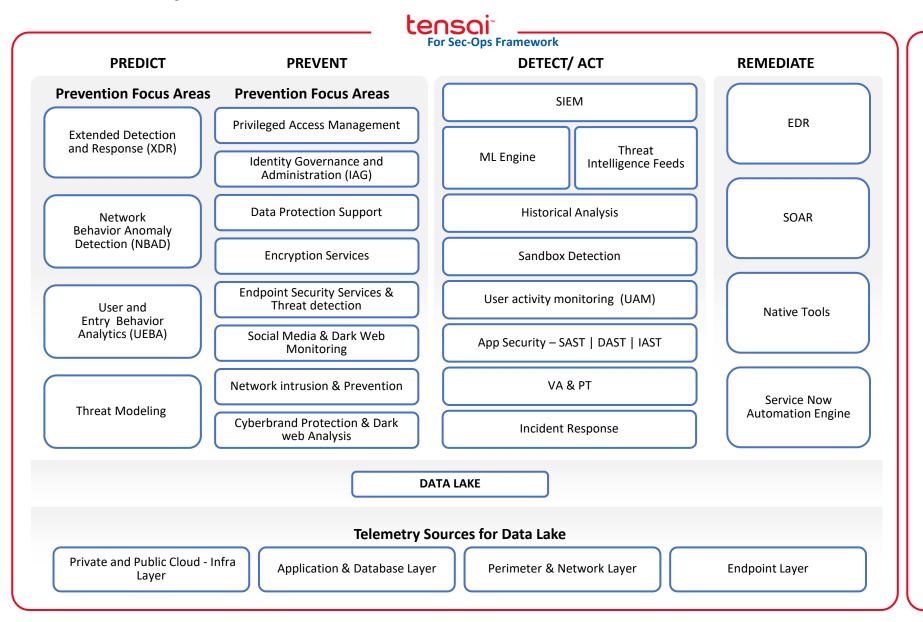


# 360 Application Security

- Build Pipelines with DevSecOps Integration
- utilize Interactive Application Security Testing / Runtime Application Self-Protection
- Implement Secure Coding Practices
- Cloud-Native
  Application Security



# **Tensai Sec Ops Framework**



# **COMPLIANCE & REPORTING** tensai\* for SOAR **ITSM** Evidence collection & Reporting tensai Security Dashboard **Compliance Reports VA/PT Reports Continuous Cloud Compliance** Dashboards



### **Predict Function**



Leverage cutting edge AI & ML based tools & enhanced processes, ensure to bring in predictive actionable insights to enhance customer's security posture and safeguard critical assets.

Data Lake & Predictive **Analytics** 

**User Behavioral Analytics** 

**Network Behavioral Analytics** 

**Threat Modelling** 



#### **Predictive Analytics**

- Predictive analytics leverages historical data to identify patterns, trends, and correlations that can be used to make predictions about future events or outcomes.
- A security data lake serving as a centralized repository for storing vast amounts of security-related data, including logs, events, alerts, network traffic, and other relevant information.
- Security analysts and data scientists' access and guery the security data lake to gain insights and perform advanced analytics.
- Continuous improvement and innovation.



#### **Other Predictive Functions**

- Threat analysis using a hybrid approach utilizing both checklist-based and non-checklist-based systems.
- XDR service leverages advanced analytics and machine learning algorithms to identify and prioritize both known and unknown (zero-day) threats.
- Using advanced artificial intelligence algorithms, our NBAD solution intelligently prioritizes the network's critical assets over other traffic.

#### **Predict**



Commitments





**Enhanced** Visibility



**Improved** threat hunting capabilities



Spot suspicious user behaviour

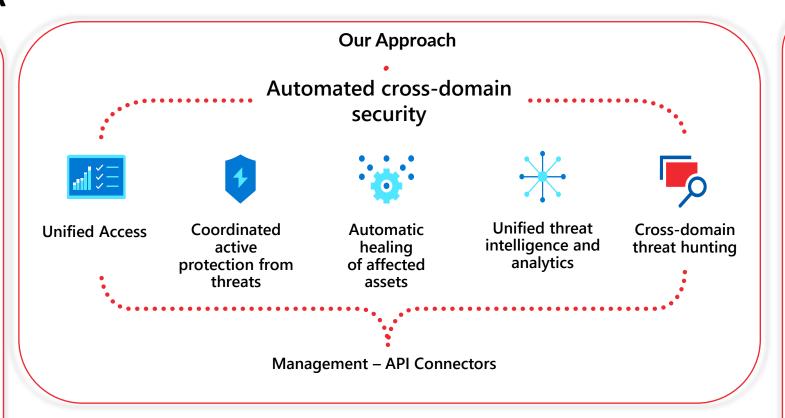


**Predict security** anomalies

### Predict - XDR

#### **Problem Statement**

- Fragmented Security tool
- Lack of visibility.
- Alert Fatigue and false positives.
- Slow incident response.
- Complex Threat Detection and Response:
- Slow Incident Response:
- Compliance and Reporting Burden:

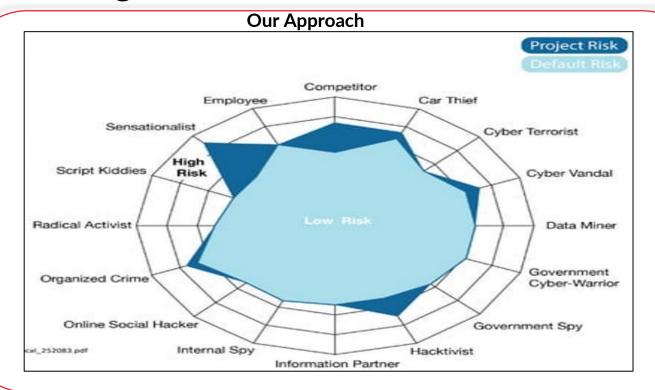


- XDR consolidates various security tools into a single platform,
- XDR offers holistic visibility across diverse data sources.
- XDR incorporates advanced threat detection capabilities.
- XDR provides automated and orchestrated incident response capabilities.
- XDR offers built-in compliance functionalities and reporting capabilities

# **Predict - Threat Modelling**

#### **Problem Statement**

- Pain areas and benefit of user and entry behavioral analysis for customer in predictive security.
- Traditional security approaches often focus on known threats.
- Without a clear understanding of the threats they face, customers may allocate their security resources inefficiently.



- Threat modeling enables customers to proactively identify potential threats and vulnerabilities.
- Customers can develop and implement targeted security measures to mitigate identified risks.
- Prioritize their security investments based on the identified risks.
- Align the security practices with compliance and regulatory requirements.
- anticipate potential attack scenarios and plan their incident response strategies accordingly.
- anticipate potential attack scenarios and plan their incident response strategies accordingly.
- Promotes "a security-bydesign" approach

### **Prevent Function**

Prevent function encompasses advanced security solutions designed to proactively mitigate risks and prevent security breaches **Delivery Strategy Engagement Themes Endpoint Security Network Security** IAM & PAM DLP Endpoint & Network Security IAM, PAM & DLP • IAM service provides a centralized platform for efficient user • Comprehensive visibility, detection, and remediation capabilities by **Key Features** identity and access management across systems and applications, integrating agent-based and agentless protection within a unified ensuring consistent access controls and streamlined user platform. provisioning processes. • Classify more data, revoke permissions, enforce policies, and trigger • PAM solution allows temporary privilege elevation for regular user alerts for our IR team to review. accounts, reducing the need for continuous elevated privileges and • DLP - continuously monitoring and analyzing data usage patterns to minimizing the potential attack surface. detect and respond to potential threats and policy violations. • Help customers define policies and implement security measures to prevent accidental or intentional data leaks or exposure to unauthorized individuals. **Functions Prevent Enablers &** BeyondTrust Accelerators **SailPoint** okta PingFederate

**Key Benefits &** Commitments



**Risk Reduction** 



Cost saving



Protection of sensitive data



**Enhanced** Reputation and customer Trust



Regulatory compliance

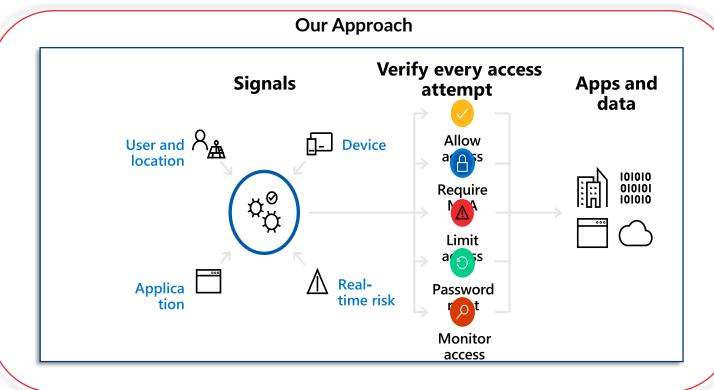
**TREND** 

**SOPHOS** 

### **Prevent – Focus Areas- IAM & PAM Services**

#### **Problem Statement**

- Challenges in gaining comprehensive visibility and control over user access to their systems and resources.
- Customers may be vulnerable to identity theft or credential abuse.
- Customers may struggle to meet regulatory compliance requirements and pass security audits



- Enhance the security posture and mitigate risks associated with unauthorized access.
- Centralized access management capabilities.
- Improves the user experience by simplifying and streamlining access to resources.
- IAM and PAM services help customers meet regulatory compliance requirements and pass security audits.
- Specialized controls and monitoring for privileged accounts.
- incorporate predictive analytics and machine learning capabilities



### **Prevent - Data Protection**

#### **Problem Statement**



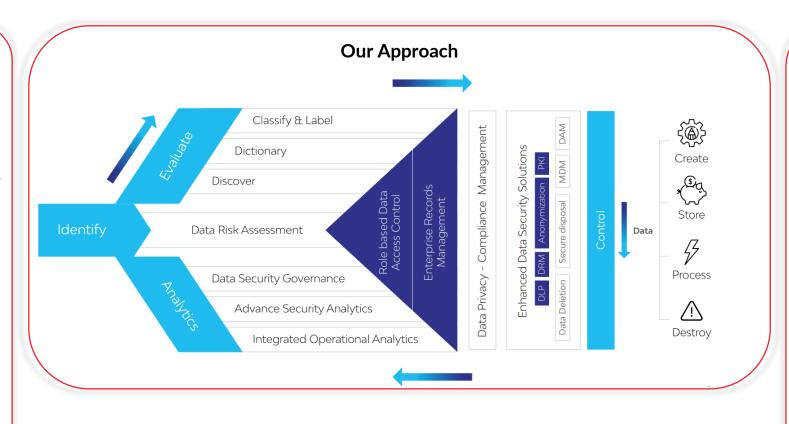
88% of organizations no longer have confidence to detect and prevent loss of sensitive data<sup>1</sup>



>80% of corporate data is "dark" – it's not classified, protected or governed<sup>2</sup>



83% of companies are experiencing challenges in ensuring regulatory and industry compliance from ineffective data management<sup>3</sup>



#### **Benefits:**



Understand & govern data

Manage visibility and governance of data assets across your environment



Safeguard data, wherever it lives

Protect sensitive data across clouds, apps, and devices



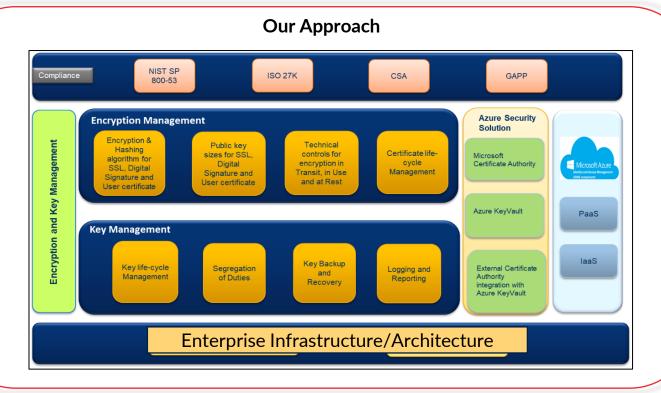
Improve risk and compliance posture

Identify data risks and manage regulatory compliance requirements

### **Prevent - Encryption**

#### **Problem Statement**

- Risk of data breaches and unauthorized access to their sensitive information.
- Many industries have strict compliance and regulatory requirements regarding the protection of sensitive data.
- Customers may face challenges in preventing data loss, especially when data is transmitted or stored in unsecured environments.

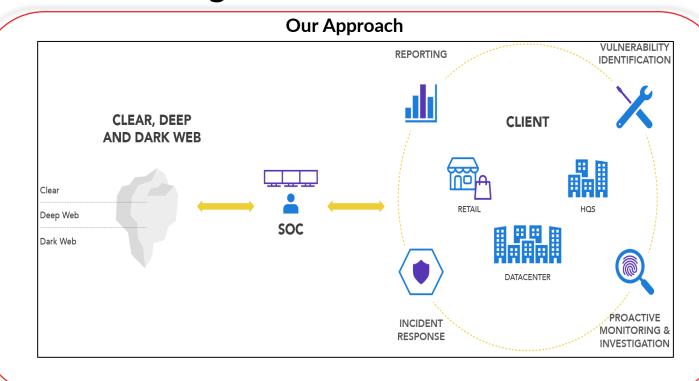


- Confidentiality of sensitive data by transforming it into an unreadable format.
- Securely transmit data over networks or through communication channels.
- Meet compliance and regulatory requirements related to data protection.
- Build trust and maintaining customer confidence.
- Assist customers in maintaining data sovereignty and privacy.
- Mitigate the risk of data tampering or modification during transit or storage.

### **Prevent – Dark web Monitoring**

#### **Problem Statement**

- Customers may have limited awareness of whether their sensitive information is circulating on the dark web.
- Customers may be at risk of identity theft and fraud if their personal or financial information is exposed on the dark web.
- Without Dark Web Monitoring, customers may have a delayed incident response time.



- Enables customers to detect data breaches and compromised information at an early stage.
- Proactively respond to potential threats.
- Customers can detect instances of their stolen data being misused for fraud or identity theft.
- Demonstrates a commitment to protecting customer data.
- supports customers in meeting compliance and regulatory requirements.
- Provide customers with a competitive advantage



### **Detect Function**

**Delivery Strategy** 

Effectively monitor, detect, analyze, and respond to security incidents in real time, Incorporate threat feeds, industry reports, and intelligence sharing communities into your monitoring and analysis processes.

**Engagement Themes** 

SIEM / SOC

**Security Assurance** 

**Application Security** 

**Key Features** 

SIEM / SOC

- Implement 24/7/365 monitoring capabilities to detect security incidents in real-time.
- Monitor network traffic, system logs, endpoints, and cloud environments for suspicious activities, anomalies, and indicators of compromise.
- Establish an incident response process that includes triage, containment, eradication, and recovery steps



#### **Security Assurance**

- · Prioritized vulnerability assessments and remediation
- Exhaustive penetration tests for gap assessment
- Conduct regular vulnerability scanning on critical assets, including IP and web applications.



#### **Application Security**

- Collaborate with customers to incorporate security into the software development lifecycle.
- Perform the code scan to identify potential vulnerabilities, coding errors, and security flaws via SAST & DAST.
- Conduct code reviews and follow-up scans to ensure that the vulnerabilities have been adequately resolved.

**Functions** 

**Enablers &** Accelerators

**Key Benefits &** 













Detect









Commitments

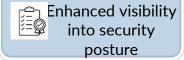




Threat intelligence integration:



Reduced risk of exploitation



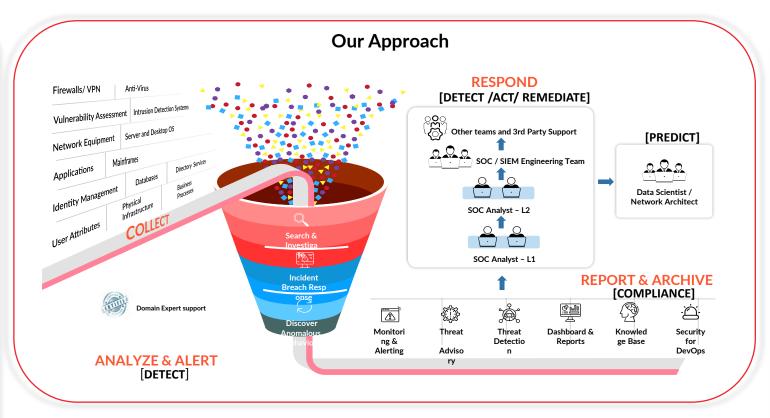


Streamlined patch management

### **Detect - SIEM**

#### **Problem Statement**

- Implementing and managing a SIEM solution can be challenging for customers.
- SIEM monitoring can generate a significant volume of logs and alerts from various systems.
- Customers may face alert fatigue due to the sheer number of alerts generated by the SIEM system



#### **Partnerships**









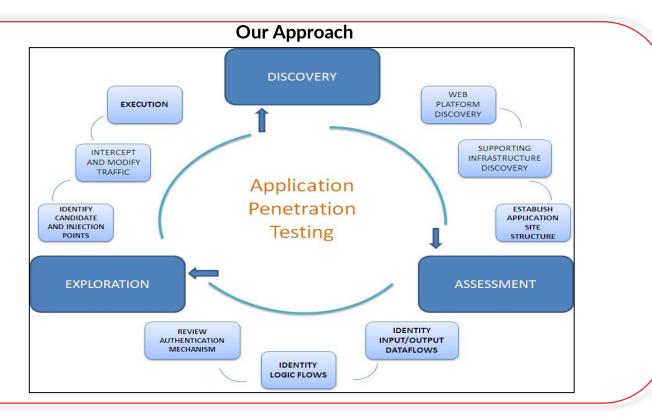


- Centralize the collection and analysis of security logs from multiple sources.
- Enable real-time detection of security incidents by analyzing log data.
- Employ correlation and contextual analysis techniques Facilitates incident investigation and forensic analysis.
- Assist customers in meeting compliance and regulatory requirements.
- SIEM monitoring allows for continuous monitoring of security events and the integration of threat intelligence feeds

# **Detect - SAST/DAST**

#### **Problem Statement**

- SAST and DAST tools can sometimes produce false positives..
- **Utilizing SAST and** DAST tools requires technical expertise and knowledge of secure coding practices and vulnerability detection.
- **Integrating SAST** and DAST tools into the development workflow can be complex and time-consuming



#### **Partnerships**







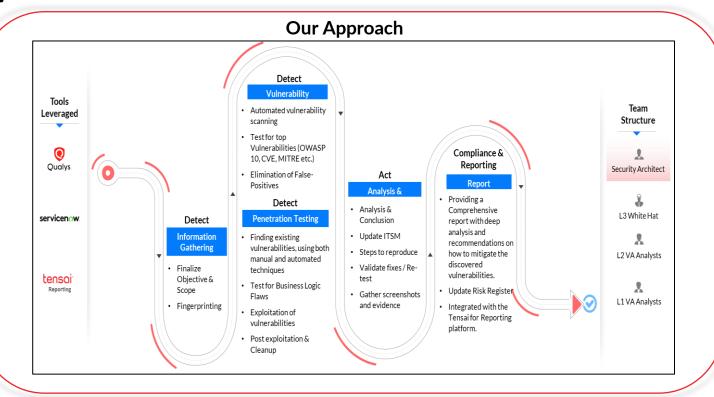


- **Identify** security vulnerabilities in their applications.
- Identify vulnerabilities early in the development lifecycle.
- Contribute to improving the overall security posture of applications.
- support customers in meeting compliance and regulatory requirements related to application security.
- **Detecting and** addressing vulnerabilities early in the development process can lead to cost savings.
- provide valuable insights for continuous improvement of the development process

# **Detect - Security Assurance - VA & PT**

#### **Problem Statement**

- Conducting comprehensive vulnerability assessments and penetration tests can be resourceintensive for customers.
- Customers may fall into the trap of developing a false sense of security.
- The scope of VA/PT testing may not encompass the entire IT infrastructure or all applications within an organization.



- Provides customers
   with a comprehensive
   assessment of
   vulnerabilities within
   their systems and
   applications.
- Simulating real-world attacks on systems and applications.
- Prioritizing security risks based on their severity and potential impact on the organization.
- Meeting compliance and regulatory requirements.
- Provides customers
   with actionable
   insights and
   remediation guidance
- Contributes to continuous.

# **Detect- Vulnerability Management Approach**

#### **Problem Statement**

- Vulnerability
   management
   involves dealing
   with a large
   volume of
   vulnerabilities
   across various
   systems,
   applications, and
   network
   infrastructure.
- Applying patches and remediation measures to address vulnerabilities.
- Conducting regular vulnerability scans can generate network traffic and consume system resources



Mutually agreed severity prioritization of vulnerabilities with IT and Business teams based on High risks





Remediation plan based on risk to business operations



Well Defined Vulnerability Metrics to be provided for periodic VAPT





### <u>Partnerships</u>



OpenVAS







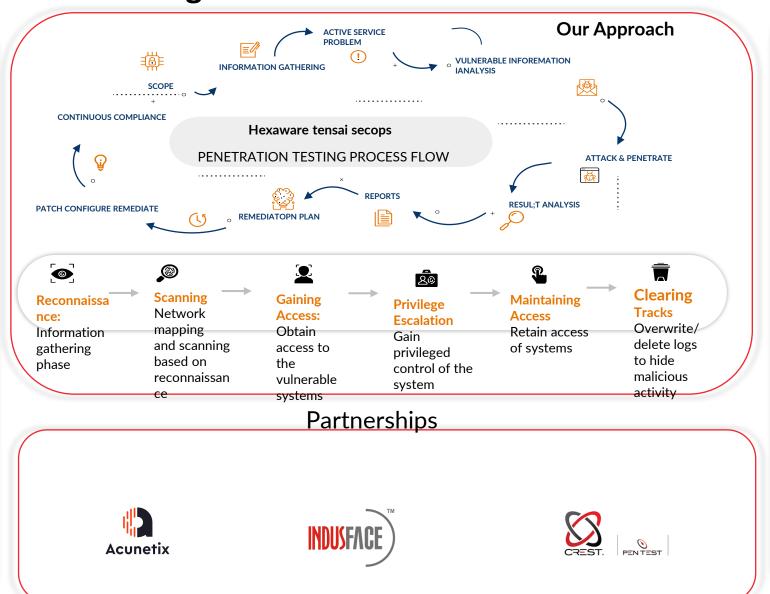
- Proactive detection of vulnerabilities.
- Prioritize vulnerabilities based on their severity and potential impact.
- A robust vulnerability management approach includes effective patch management processes.
- Implementing a vulnerability management approach helps customers meet compliance and regulatory requirements.
- Prevent potential security incidents and minimize the risk.
- Enables customers to continuously improve their security practices



### **Detect - Penetration Testing**

#### **Problem Statement**

- Vulnerability
   management
   involves dealing
   with a large
   volume of
   vulnerabilities
   across various
   systems,
   applications, and
   network
   infrastructure.
- Applying patches and remediation measures to address vulnerabilities can be complex and time-consuming.
- Conducting regular vulnerability scans can generate network traffic and consume system resources.



- Proactive detection of vulnerabilities.
- Prioritize vulnerabilities based on their severity and potential impact.
- A robust vulnerability management approach includes effective patch management processes.
- helps customers meet compliance and regulatory requirements.
- Proactively addressing vulnerabilities
- Enables customers to continuously improve their security practices.



### **Remediate Function**

**Delivery Strategy** 

Deliver the remediation function by prioritizing incidents, planning remediation, leveraging skilled expertise

**Engagement Themes** 

EDR

**SOAR** 

**Key Features** 

8= C

**EDR** 

- Isolate compromised endpoints, terminate malicious processes, and remove malicious files or artifacts to contain and remediate security incidents promptly.
- Ability to revoke elevated privileges, reset compromised account credentials, and implement least privilege access controls to mitigate the risk of unauthorized access.
- Restore affected endpoints to a known good state or roll back changes made by malicious actors, minimizing the impact of the incident.



**SOAR** 

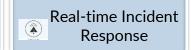
- Executing predefined remediation tasks such as isolating affected endpoints, blocking malicious IP addresses, disabling compromised user accounts, or quarantining infected files.
- Prioritizing and tailoring remediation actions based on the severity, impact, and relevance of the incident.
- Automate configuration changes to enforce security policies and best practices.
- Adapt and refine their remediation strategies based on evolving threat landscapes and changing business requirements.

**Functions** 

Remediate

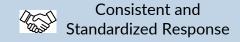
Key Benefits & Commitments











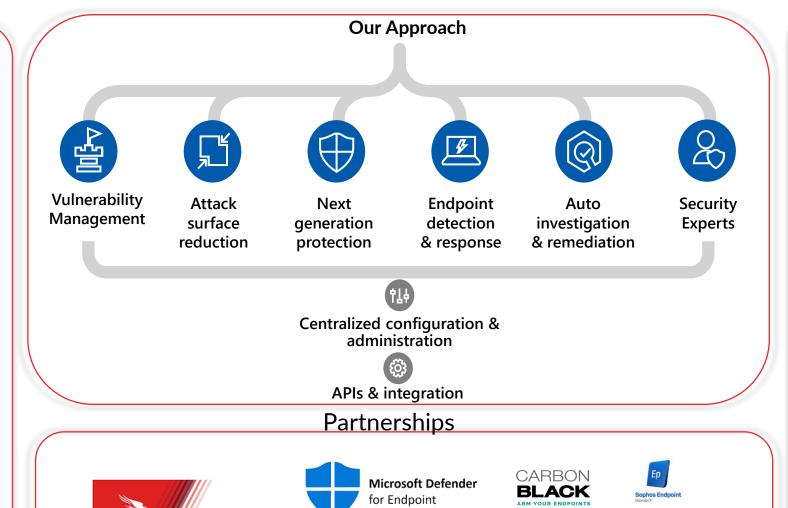
# **Remediate – Activity sets & benefits**

	Activities	Benefits		
	Remediation - End point detection & Response			
•	Proactively searching for signs of advanced threats.	Enables organizations to detect and respond to security threats on endpoints in		
•	Utilizing behavioral analysis and ML algorithms to detect and alert on behavior or	real-time.		
	malicious activities.	Provides with the visibility and capabilities to respond swiftly and effectively to		
•	Maintaining an up-to-date inventory of all endpoints.	security incidents.		
	· · · · · · · · · · · · · · · · · · ·	Enhance endpoint security by continuously monitoring, analyzing, and detecting		
	· ·	suspicious activities and potential threats.		
	Remediation -Security Orchestration & Automated Response			
•	Automatically triaging and prioritizing security incidents.	Reduces manual intervention and accelerating incident response.		
•	Aggregating alerts from various security tools and enriching them with contextual	Enables security teams to handle a larger volume of incidents.		
	information.	Reducing human errors and ensuring a standardized approach to incident		
•	Designing and implementing automated workflows and playbooks that define	response.		
	step-by-step response actions for different types of security incidents			

### Remediate - EDR

#### **Problem Statement**

- Lack of Endpoint Visibility
- Slow Incident Response
- Resource
   Constraints
- Advanced Threat Protection
- Compliance Requirements



**Sentinel**One®

#### **Benefits:**

- Proactive detection.
- Customers prioritize vulnerabilities based on their severity and potential impact.
- includes effective patch management processes.
- Implementing a vulnerability management approach helps customers meet compliance and regulatory requirements.
- Prevent potential security incidents and minimize the risk of breaches or unauthorized access to their systems. A vulnerability management approach enables customers to continuously improve their security practices.

**EDR** 



# Remediate – SOAR – Automated Security Incident Handling

#### **Problem Statement**

- Implementing a
   Security
   Orchestration,
   Automation, and
   Response (SOAR)
   solution can be
   complex and
   require integration
   with existing
   security tools,
   systems, and
   processes.
- Skills and knowledge to design and automate incident response workflows.



- Enables an integration layer, ling customers to connect and orchestrate various security tools and systems.
- Automate various aspects of security incident handling, such as alert triaging, enrichment, correlation, and response actions.
- Consistent and Standardized Workflows: SOAR platforms enable customers to define and automate standardized incident response workflows.



# **Compliance & Reporting Function**

**Delivery Strategy** 

Adherence to regulatory requirements, industry standards, and best practices while maintaining effective governance controls and risk management.

**Engagement Themes** 

**Configuration Review** 

**Internal & External Audit** 

AI /ML Based Dashboards & Reporting

Key Solution Features

**Configuration Review** 

- Security policy validation
- Controls validation
- Adherence to industry best practices



**Internal & External Audit** 

- Carry out periodic internal audits in line with Customer security policies.
- Support External Certifications and Third-Party Assessments.
- Governance of Hexaware security services delivered to Customer.
- Risk management
- Internal controls validation



AI /ML Based Dashboards & Reporting

- Persona based dashboards
- Service Insights
- · Security Insights
- Build-your-Own-Dashboards
- Risk Assessment and Prediction
- Automation of Routine Reports

**Functions** 

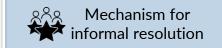
**Compliance & Reporting** 

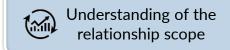
Key Benefits & Commitments











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# **Compliance & Reporting – Activity sets & benefits**

	Activities	Benefits		
	Compliance & Reporting - Evidence collection & Reporting			
•	Establishing a systematic process for documenting and maintaining the chain of	Proper evidence collection ensures that the collected evidence is admissible in		
	custody of collected evidence	legal proceedings.		
•	Utilizing specialized tools and techniques to collect, preserve, and analyze digital	Thorough evidence collection helps investigators build a solid case by ensuring all		
	evidence	relevant evidence is collected and preserved.		
•	Identifying and collecting relevant data and evidence from various sources.	Verify the facts of an incident or crime		
	Compliance & Reporting - Security Assessments to frameworks and standards			
•	Identify relevant security frameworks and standards applicable to the	Meet industry-specific compliance requirements and regulatory obligations.		
	organization's industry.	Enables organization to identify and address gaps.		
•	Conduct a gap analysis to assess the organization's current security posture.	Ensures the implementation of industry-recognized best practices.		
•	Perform a comprehensive risk assessment.			
	Compliance & Reporting - Compliance Dashboarding			
•	Clarity in defining the objectives and scope.	Provides a centralized and consolidated view of compliance metrics.		
•	Collect data related to compliance activities.	• Enable data-driven decision making by presenting compliance metrics and trends.		
•	Determine the KPIs and metrics that will be tracked on the compliance dashboard	Automate the generation of compliance reports.		
	Compliance & Reporting - Continuous cloud compliance			
•	Identify and define the specific compliance requirements.	Continuous cloud compliance provides real-time visibility		
•	Conduct an initial compliance assessment to evaluate the organization's current	Monitoring helps identify and mitigate compliance-related risks promptly		
	cloud environment	<ul> <li>Proactively manage compliance by addressing issues as they arise.</li> </ul>		
•	Implement and configure appropriate security controls within the cloud			
	environment.			

### **Our Consulting – GRC Services**

#### 02. Internal Audit

- Internal Controls Review
- Information Systems Audit
- Process Audit
- Security Audit
- Policy/Framework Audit

#### 04. Security Testing

- Vulnerability Assessment
- Penetration Testing
- Security Usecases Review

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#### **06. Third Party Audits**

 Conduct vendor Risk Assessment

### 08. BCP Consulting

· Define BCP and conduct **Business Impact Analysis and** Risk assessment. Assist in BCP testing and define SOPs for disaster scenarios



### 01. ISO Certification

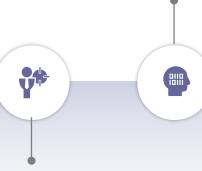
Prepare, assist and recommend necessary tools and technologies. Help in preparation of metric dashboard

#### 03. GDPR /Privacy Compliance

GDPR Compliance Audit

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- Assist with implementation of controls and processes
- DPO as a service
- Privacy Assessment



#### 05. Risk Assessment

 Define Risk assessment framework, conduct audit for the same and make necessary remediation recommendations



#### 07. IT Asset Audit

- License Audit
- Process Audit





### **Advisory Services**

- Data Privacy
   Officer on Demand
- CISO on Demand
- Compliance Officer on Demand

- Mentor Board
- Members and CEOs on Information Security, Digital Risk, Privacy etc.

 Implement and Manage ISMS  Assist CIOs in their Operations for Compliance, Assessment, Documentation

### **Training Services**

 Information Security Awareness  Secure Coding Guidelines.

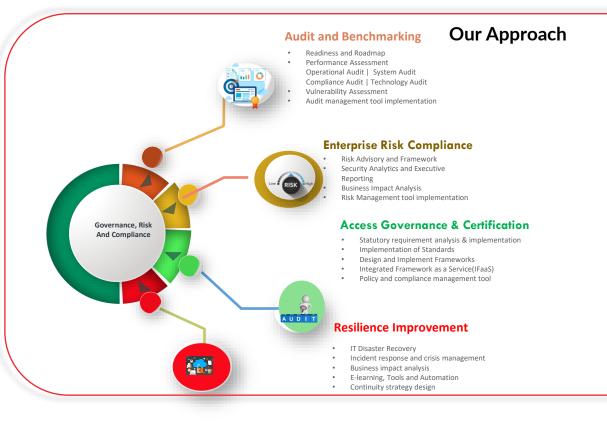
Security Testing

 ISMS Process and Audit Methodology Compliance & Reporting Services - Governance, Risk and Compliance Serviceware

offering

#### **Problem Statement**

- regulatory standards and industry-specific requirements can be complex and challenging for organizations.
- Achieving and maintaining compliance can require significant resources
- The regulatory landscape is constantly evolving, with new standards, laws, and regulations being introduced regularly.

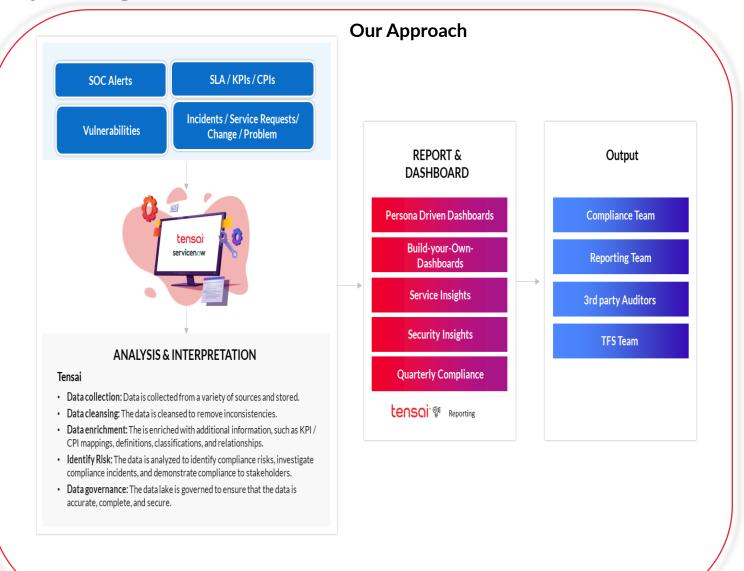


- Align operating strategy with streamlined business process
- Address multiple compliances
- Agile and scalable controlled environment.
- Cross–functional Risk approach
- Standardized GRC processes to enhance decision making
- Embrace governance automation more effectively
- Predictable and optimized results

# **Compliance & Reporting Services**

#### **Problem Statement**

- Compliance with regulatory standards and industry-specific requirements can be complex and challenging for organizations.
- Achieving and maintaining compliance can require significant resources in terms of personnel, time, and financial investments. The regulatory landscape is constantly evolving, with new standards, laws, and regulations being introduced regularly



- Enable organizations to meet legal and regulatory
- Best practices and security frameworks to enhance overall security posture.
- Focus on data protection and privacy.
- compliance demonstrates a commitment to security and data protection.
- Streamline the audit process by maintaining organized documentation,
- Encompass elements of business continuity planning and disaster recovery.