Digital Forensics and Incident Response Services

Cyber Security

The rapid pace of digitalization is leading to increasing cyber risks. The organizations that rely on digital systems for data generation and processing are facing a rising number of advanced persistent threats (APT), ransomware attacks, and online identity threats. The on-premise infrastructure is gradually getting replaced with cloud infrastructure. There is a need for advanced digital forensics and incident response capabilities for both on-premise and cloud environments, which would complement the security operations to detect, analyze, respond to incidents, while activities pertaining to mitigation and recovery happen in parallel.
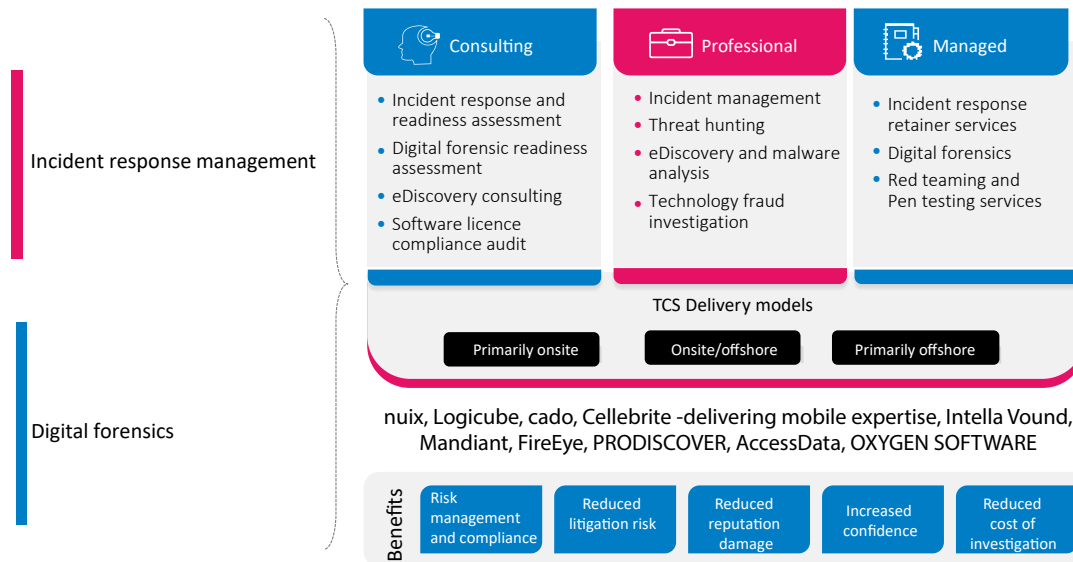
TCS' Digital Forensics and Incident Response Services helps root out malware faster and build fortifying controls in the long term to withstand unknown and undefined incidents of the future.

Overview

Modern businesses thrive on data, and the proliferation of data presents significant challenges such as cybercrime, security breaches, and digital fraud. Manual systems and supervision are no longer adequate to address these issues. Businesses need a holistic framework and implementation of technical and procedural controls to manage security incidents and comply with regulations. Given the increasing complexity and diversity of technology, enterprises require a fully functional incident response team with capability to carry out forensic investigations at short notice.

TCS' Digital Forensics and Incident Response Services provides a comprehensive set of capabilities that identify gaps in the existing security infrastructure and helps businesses predict, detect, and mitigate security incidents. The offering leverages our Digital Forensics Center of Excellence labs to identify, collect, analyze and utilize the digital evidence to provide the root cause of the security breaches. It further recommends corrective and preventive measures to effectively manage such incidents and prevent recurrence. The new age incident response team brings the latest technology to address advanced and sophisticated cyber threats.

Our global threat management centers are manned by security professionals with specialized skills in pen testing, red teaming, threat hunting, and malware analysis. This enables customers to utilize our near-shore threat management centers, which are combat-ready for advanced cyber-attacks and adversaries.

	Consulting	Professional	Managed
Incident response management	• Incident response and readiness assessment • Digital forensic readiness assessment • eDiscovery consulting • Software licence compliance audit	• Incident management • Threat hunting • eDiscovery and malware analysis • Technology fraud investigation	• Incident response retainer services • Digital forensics • Red teaming and Pen testing services

TCS Delivery models

Primarily onsite   Onsite/offshore   Primarily offshore

Digital forensics

nuix, Logicube, cado, Cellebrite -delivering mobile expertise, Intella Vound, Mandiant, FireEye, PRODISCOVER, AccessData, OXYGEN SOFTWARE

Benefits

Risk management and compliance	Reduced litigation risk	Reduced reputation damage	Increased confidence	Reduced cost of investigation

An overview of TCS Digital Forensics and Incident Response Services

Our solution

TCS' Digital Forensics and Incident Response Services is an incident management solution that addresses cybercrimes using:

- Incident response:
  - Emergency response: Get priority assistance at speed to identify root cause of attacks and offer containment measures to stop the spread of infection.
  - On-demand incident response (retainer): Incident response retainer, a subscription-based pre-negotiated contract that helps organizations prepare for rapid response. The responders are available within hours to begin work virtually to quickly addressing the most pressing concerns.

- Digital forensics: Perform forensic procurement and investigation of on-premise, cloud (AWS and Azure) and containerized systems at scale (whether capturing and processing data for one or hundreds of systems), keeping the chain of custody, ensuring forensic data is safe, and meeting legal compliance. Intensive analysis combined with full content inspection detects malware, suspicious events, personal identifiable information (PII) risks, and more.

Benefits

TCS Digital Forensics and Incident Response Services provides the following benefits to enterprises:

- Contain/mitigate security breaches: Establish a forensic-ready environment that provides a measure of deterrence to potential attackers by provision of an effective investigation capability.

- Contextual risk management: Understand attackers' tactics, techniques, and procedures, and reduce business risk by rapidly uncovering stealthy attacks and attackers.

- Increased regulatory and legal compliance: Achieve 100% compliance with regulatory and legal guidance and significantly reduce the cost of requirements for disclosure of data.

- Enhanced productivity: Reduce breakdown of critical information systems and network downtime to zero hours during forensic analysis of live systems, and boost organizational productivity.

- **Increased profitability:** Reduce revenue leakages and minimize the cost of investigations by quickly identifying, probing, and mitigating breaches.

- **Enhanced customer confidence:** Build on customer confidence and reduce the risk of major losses (in terms of data loss, goodwill and trust erosion, and business equity loss).

The TCS advantage

TCS can help enterprises experience speed, accuracy and depth in every engagement and leverage the following key differentiators:

- **Dedicated labs for digital forensics and malware analysis:** TCS has a dedicated digital forensics lab that is equipped with the latest digital forensic tools, software, and infrastructure enablers. Our familiarity with legal requirements to protect evidence, data integrity, and chain of custody helps ensure a robust cybersecurity framework. TCS' dedicated Malware Analysis Lab utilizes a virtualized isolated environment to reduce litigation risks and protect sensitive data and create a secure, digital environment.

- **Certified digital forensics and eDiscovery specialists:** TCS' large pool of certified digital forensic, malware, and eDiscovery specialists provide consistent and continuous support throughout the incident management lifecycle via eDiscovery consulting and cybersecurity incident response assessment. TCS' Machine First Delivery Model (MFDM™) facilitates flexible engagement models.

- **Strategic partnerships:** TCS' strategic and collaborative partnership with leading digital forensic, eDiscovery, and incident response tool and service providers such as NUIX, Exterro, Cado, and Mandiant helps keep track of the current cybersecurity trends and threats and also address any incident in a streamlined manner with assured reduction of timeline between breach and response.

- **Matured process and approach baselined on industry standards:** TCS has a well-defined and matured process in the form of dip stick and table top assessments to gauge one's preparedness and maturity to handle incidents, SOPs and best practice guides baselined on NIST and CIS Framework.

- **Contextual analytics for greater visibility:** Largest telemetry of partner network and cross customer threat information sharing.

Awards and accolades

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organisation that has been partnering with many of the world's largest businesses in their transformation journeys for over 50 years. TCS offers a consulting-led, cognitive powered, integrated portfolio of business, technology and engineering services and solutions. This is delivered through its unique Location Independent Agile™ delivery model, recognised as a benchmark of excellence in software development.

A part of the Tata group, India's largest multinational business group, TCS has over 500,000 of the world's best-trained consultants in 46 countries. The company generated consolidated revenues of US $22.2 billion in the fiscal year ended March 31, 2021 and is listed on the BSE (formerly Bombay Stock Exchange) and the NSE (National Stock Exchange) in India. TCS' proactive stance on climate change and award-winning work with communities across the world have earned it a place in leading sustainability indices such as the MSCI Global Sustainability Index and the FTSE4Good Emerging Index. For more information, visit www.tcs.com.