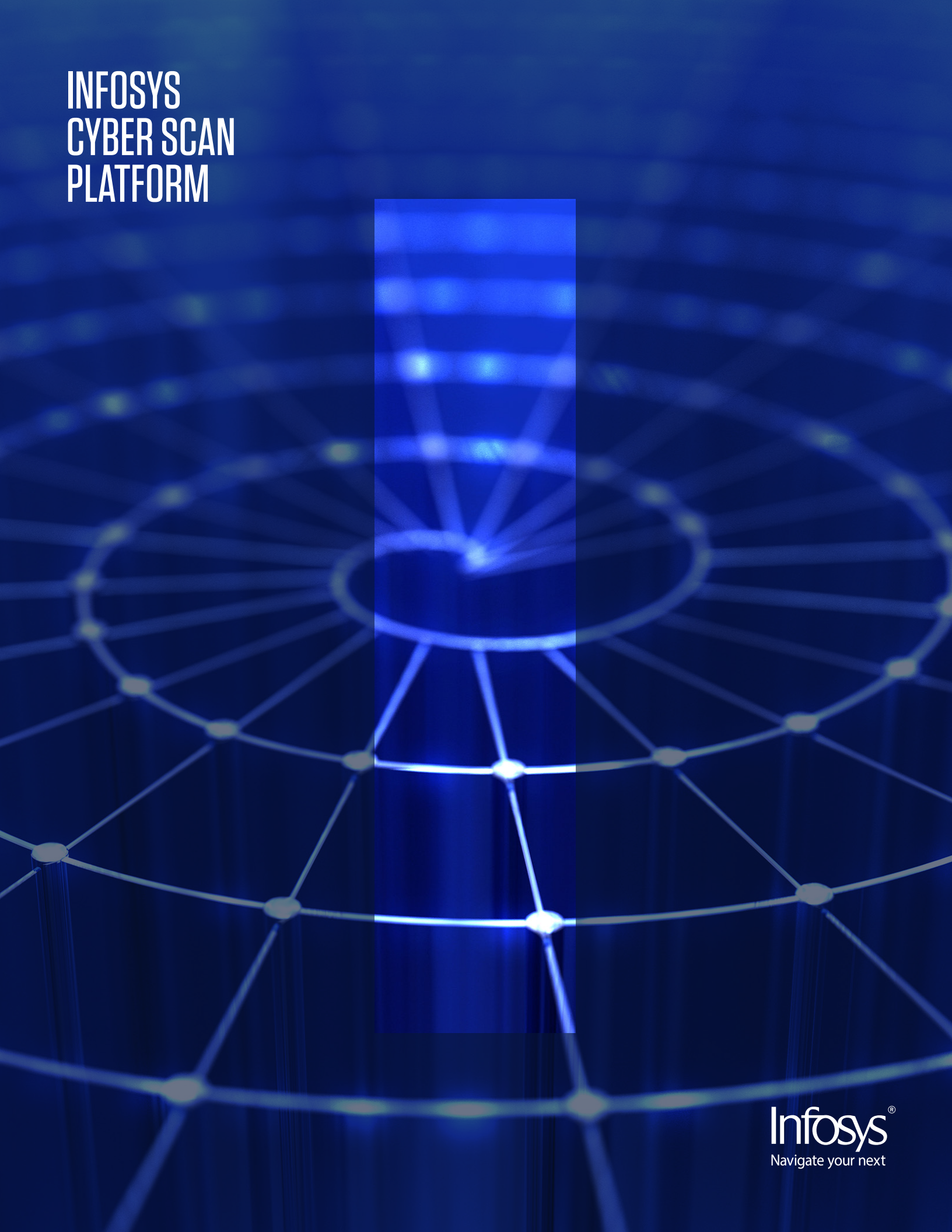
INFOSYS CYBER SCAN PLATFORM



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Overview

With massive digitization, blurred IT perimeters and expanded threat surface, there has been a steady rise in security breaches over the past few years. This is essentially due to potential weaknesses that exist in security architectures of organizations rendering them susceptible to cyberattacks. Enterprises have been struggling with large volume of security vulnerabilities and huge backlogs to remediate. Cyber-attackers today, can gain unauthorized access to IT systems, run malicious codes, steal, modify or destroy sensitive data or install malware easily. Many businesses in the recent past have also been impacted by ransomware and other lethal cyber-attacks due to unpatched vulnerabilities causing catastrophic damage. It's imperative for organizations to acknowledge the need for vulnerability management and apply robust strategies accordingly.

Advanced cyber-attacks can be reduced by ensuring basic cyber hygiene such as visibility of all endpoints, identifying vulnerabilities, ensuring they are remediated, and patches are up to date. Enterprise IT and security professionals have been facing severe challenges in prioritizing, risk scoring and identifying suitable patch/ updates to remediate vulnerabilities. Vulnerability detection, prioritization and remediation at near-real-time is a very challenging task and is of utmost priority for CISOs to safeguard businesses.

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Need for a comprehensive vulnerability management solution

- To gain comprehensive insights into assets and applications inventory
- To be able to predict and secure assets that could be compromised
- To secure applications, servers, networks and infrastructure
- To handle delays in critical issue remediation and backlogs
- To manage multiple products, technologies and stakeholders with conflicting priorities

A comprehensive vulnerability management program covering identification, prioritization and tracking of the remediation progress with relevant metrics is the best way to protect an enterprise from becoming the next easy target.

Challenges encountered in a usual vulnerability management program

- Traditional prioritization remediation tasks based on CVSS (common vulnerability scoring system) lead to huge remediation backlogs and delays in critical issue remediation process thereby increasing cyber risk for enterprises
- Difficulty in optimizing workflows due to lack of effective and comprehensive vulnerability life cycle management solution
- Complex solution involving multiple products, technologies and multiple stakeholders with conflicting priorities
- Lack of process and standard operating procedures from scanning to patching and risk closure
- Expanding and evolving threat surface arising from rapid digital and technology innovation
- Lack of accountability, automation, in-depth technical analysis and expertise

Infosys Cyber Scan Service - Preventive security for your business. **Anytime. Everytime.**

Infosys Cyber Scan is a platform-powered vulnerability management service that helps detect and prioritize vulnerabilities based on risk score and provides in-depth remediation advisory service to immediately patch critical vulnerabilities. It is part of our Platform Powered Service Ecosystem - Infosys Cyber Next, that is pre-engineered and built to manage complex IT estate vulnerabilities for IT infrastructure and applications and offers security-as-a-service in a single package, deep visibility, lifecycle management, automation and risk-based prioritization.

Cyber Scan provides a unique real-world knowledge base, expert systems, machine learning, and predictive modelling that drives effective vulnerability analysis, risk forecasting, and intelligent remediation features.

What we do - Our offerings include

Services

- **Application Security: Obtain static and dynamic application security testing (SAST and DAST), application penetration testing and have DevSecOps supported. This service includes:**
  - Application inventory with defined criticality and application placement
  - Automatic import of scanner and assessment data, ITSM integrations, de-duplication
  - Vulnerability prioritization based on application criticality, placement and exploitability factor
  - Metrics – Risk score trending, mean time to remediate, vulnerabilities prioritization by risk/score/status/due date/class etc.
- **Infrastructure Vulnerability Scanning: Obtain infrastructure - network, server and endpoint scanning. This service includes:**
  - Creating standard documentation, process, procedure and plans
  - Remediation tracking through ITSM integration
  - Vulnerability prioritization based on real-time threat intelligence, asset placement and criticality
  - Real-time handling of inactive assets through CMDB (configuration management database) integration
  - Top fixes aimed at risk reduction, zero-day advisory

Platform-Powered Solution

Infosys Cyber Scan is a comprehensive end-to-end solution encompassing scanners, risk-prioritization methodologies and remediation mechanisms thereby offering quick security to customers. It offers:

- **Support for OOTB (out of the box) integration with 35+ tools** to protect existing investments and avoid vendor lock-in
- Wide coverage with **15+ intelligence feeds and a knowledge base of more than 7+ billion vulnerabilities**
- **Modular architecture** to support infrastructure, application or both
- **Scalable platform** managing volume changes based on business needs

Infosys Cyber Scan - Key Features

- **Asset Profiling and Scanning:** Real-time and scheduled periodic scanning of assets and infrastructure for vulnerabilities
- **Vulnerability Prioritization: Based on real-time threat i Intelligence, risk scoring, asset placement and criticality**
- **Predictive Modelling:** Forecasting exploits and risk of vulnerabilities with 94% accuracy

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Get your vulnerabilities under control with Infosys Cyber Scan

Data-driven Prioritization
Employing 15+ threat intelligence feeds, 7 billion + managed vulnerabilities, and global attack telemetry to provide the most informed vulnerability prioritization available

Predictive Modelling
Forecasting exploits and risk of vulnerabilities with 94% accuracy - the moment they appear, while letting you ignore those that are not relevant to your organization

Attack Data from the 'Wild'
Harvesting external data from hacker forums, exploit-kit directories, and real-time exploitations across the world to continuously calculate risk scores for every vulnerability and asset

Wildest Coverage in the Industry
Leveraging 15+ intelligence feeds and a knowledge base of more than 7 billion + vulnerabilities create the industry's most accurate analysis

The Right Needle in the Haystack
Informing on which of your critical vulnerabilities need to be dealt with most urgently, backed by credible validation

Scalable Cloud Platform & SaaS Implementation
Scaling elastically to virtually any organization size without additional hardware or effort

No Vendor Lock-in
Letting you enjoy built-in support for the widest set of security and analysis tools without vendor bias

Business Value

- Real-time scanning of assets, applications and infrastructure
- Detection and reporting of vulnerabilities
- Vulnerability prioritization based on real time threat intelligence, asset criticality and asset placement
- Actionable measurements guiding smart remediation and resource allocation
- Quantifiable risk posture across business units and service lines
- As-a-service predictable price, faster value realization, near-real-time remediation and overall security posture improvement

For more information, contact askus@infosys.com

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