



happiest minds

The Mindful IT Company

Born Digital . Born Agile

Cyber Security Solutions for COVID-19

www.happiestminds.com

INTRODUCTION

While everyone is aware of the impact of the COVID-19 and Governments in all countries are working relentlessly in curbing the spread through social distancing and lockdown in most parts. Now, this has resulted in organizations enforcing a 100% work from home policies across.

The hackers have capitalized on this situation and using it in tricking people and exploiting this crisis. This has imposed a wide range of **cybersecurity** impact and multiple cybersecurity challenges to organizations.

COVID-19 CYBER SECURITY TRENDS



Increased cyberattacks

Cyber attacks are expected to grow further, with higher and innovative attack methods. Increase in targeted attacks with malwares and ransomwares targeted towards remote workers



Increased phishing campaigns

More than 86% of the organizations have reported phishing attacks. With the current situation, this is the most exploited method to gain initial access for a targeted attack. There have been coronavirus-themed emails designed to look like emails from the organization's leadership team and sent to all employees



Business interruptions

With more consumption of **remote access solutions** and VPN (Virtual Private Network) gateways, more DDoS (Distributed Denial of Service) attacks targeted towards VPN gateways, limiting availability. There is an increase in methods to exploit existing vulnerabilities on these gateways



Cyber Espionage

APT (Advanced Persistent Threat) 41's latest campaign started in January and continued through to March. Researchers at FireEye have identified it as "one of the broadest campaigns by a Chinese espionage actor we have observed in recent years"



KEY CHALLENGES

01

Endpoint security

- ▶ Overall **security** status of endpoints w.r.t updates of AV (Antivirus Patches), patches, and usage of laptops
-

02

User awareness

- ▶ Security awareness among employees
 - ▶ Are they following good practices as listed in organization Infosec policies
 - ▶ Are they able to identify phishing campaigns
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03

Secure remote access

- ▶ Usage of unauthorized devices. Adequate security controls for remote users
 - ▶ User authentication modes
 - ▶ Remote admin controls and level of access
-

04

Effectiveness of security controls

- ▶ How effective are the controls deployed
 - ▶ How effective are controls when it comes to complete remote support situation
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05

Business continuity

- ▶ Effectiveness of the business continuity plans
 - ▶ How effective and efficient has this been
 - ▶ Lot of organizations, do not have a plan in place
-

06

Data leakage

- ▶ Ability to identify if there has been any data leakage
 - ▶ Loss of confidential data
 - ▶ DLP (Data Loss Prevention) control effectiveness
-

07

Vulnerability and Patch mgmt.





- ▶ With people working remotely, patching all the endpoints and managing security levels on endpoints is becoming a challenge

08

What happens when BAU resumes

- ▶ What happens when business resumes and people connect to corporate networks after not being governed for such a long period

OUR SERVICES

 Services	 Evaluation areas/technologies	 Deliverables	 Our Proposition
Testing Endpoint Security effectiveness	<ul style="list-style-type: none"> Exploitation vectors 	Automated reports with recommendations	Free - One - time evaluation
Testing existing security controls – Both while connected to VPN and while not connected to VPN	<ul style="list-style-type: none"> Email gateways (or) Web gateways (or) Web application firewall 	Automated reports with recommendations	Free - One - time evaluation
User awareness testing.	<ul style="list-style-type: none"> User awareness – Phishing simulation. 	Automated reports with recommendations	Free - One - time evaluation
Data leakage identification and control effectiveness testing	<ul style="list-style-type: none"> Identification of confidential data in dark web. Identification of source code leakage. Test effectiveness of DLP controls 	Automated reports	Free - One - time evaluation
Security testing	<ul style="list-style-type: none"> VA (Vulnerability Assessment) and PT (Penetration testing) External and Internal 	Reports with recommendation	Consultation services - Time and Material Based
Secure remote access evaluation.	<ul style="list-style-type: none"> Evaluation of remote access policies and controls against best practice guidelines Evaluate remote admin policies and controls. Evaluate VPN gateway configurations. 	Manual reports	Consultation services - Time and Material Based
Business continuity assessment and planning	<ul style="list-style-type: none"> Evaluate existing BCP (Business Continuity Planning) - DR (Disaster Recovery) strategy Design new BCP - DR strategy 	Manual reports with recommendations BCP - DR strategy	Consultation services - Time and Material Based
Business contingency planning	<ul style="list-style-type: none"> Evaluate existing solutions and control in place. Develop business contingency plan. 	Contingency plan	Consultation services - Time and Material Based

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About Happiest Minds Technologies

Happiest Minds, the Mindful IT Company, applies agile methodologies to enable digital transformation for enterprises and technology providers by delivering seamless customer experience, business efficiency and actionable insights. We leverage a spectrum of disruptive technologies such as: Big Data Analytics, AI & Cognitive Computing, Internet of Things, Cloud, Security, SDN-NFV, RPA, Blockchain, etc. Positioned as "Born Digital . Born Agile", our capabilities spans across product engineering, digital business solutions, infrastructure management and security services. We deliver these services across industry sectors such as retail, consumer packaged goods, edutech, e-commerce, banking, insurance, hi-tech, engineering R&D, manufacturing, automotive and travel/transportation/hospitality.

Headquartered in Bangalore, India; Happiest Minds has operations in USA, UK, The Netherlands, Australia and Middle East.



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