

BEST CYBER SECURITY PRACTICES

WHILE WORKING FROM HOME

FACTS AND FIGURES

12.5% 
 Victimized organizations that paid associated Ransoms rose from 45% to 57.5% in 2020.
 - Cyberthreat Defense Report

39 sec
 The malicious Hacking attack occurs every 39 sec
 - University Of Maryland

67% of enterprise survey respondents for 2020 Global Encryption Trends Study identify Data Visibility as biggest challenge
 - Ponemon Institute

\$250M 
 Deep fake scams are going to cost the world more than \$250 million this year
 - Forrester Research

94% 
 94% of malware is delivered via email.
 -CSO

71% 
 71% of breaches are Financially motivated, the second most common reason is Espionage, Accounting for 25% of Data Breaches.
 - Infosec

\$133.7 billion 
 Worldwide spending on Cybersecurity is going to reach \$133.7 billion in 2022
 - Gartner

1. Endpoint Security compliance check

- Ensure **continuous detection** and monitoring mechanisms are in place and functioning
- Organizations should have the ability to manage their endpoints and check its **compliance** while users are not connected to the corporate networks
- Bring your own device (BYOD) policies are defined and **security** checks in place for scanning the systems for policy checks before permitting to connect.

2. Data Security and Privacy a Priority

- Employees having access to confidential data or PI data should be trained on the emphasis of confidentiality and **secure handling of data**
- Such employees access should be governed periodically and ensure least privilege policy is maintained
- Adequate training to the employees on company policies and awareness program. Educating them on various techniques like phishing and more used for exploits
- Engage solutions which could identify possible data leakages like source code leak, credentials leak

3. User awareness training programs

- Interactive training sessions to engage users in understanding organizations infosec policies and good practices to be followed
- Simulated attack-based training has proven effective in educating users, so it is a good option for organizations to adopt such training for users
- Such training should also include good practices to be adopted by users while working from home

4. Multi-Factor Authentication for Protection

- MFA has become one of the key factors for two-step verification and secures personal information with special controls with VPNs
- MFA should also be extended to some critical applications/systems adding another layer of protection
- Ensure the device authorization check is included as part of your VPN connectivity

5. Privilege User Management

- Privilege accounts are the most critical components of **access management**, and there has to be processed in place to check if RBAC is aligned on the principle of least privilege
- In this situation, it suggested to increase the frequency of privilege account audits and clean up immediately upon identification

6. Vulnerability Assessment and Patch Management.

- Identify critical service components like VPN gateways, critical services contributing to remote access and increase the frequency of scanning and patching
- Ensure regular **vulnerability assessment** process is more governed and adopt prioritization based on risk for the organization rather just on the risk scores of the vulnerability
- Ensure end-user machines connected remotely are being governed through corporate **patch management** solution.

7. Practice Cyber-Hygiene Habits

- Educate users to avoid usage of the public network and instead invest in a dependable private network for internet access and preferably through corporate VPN.
- Ensure corporate VPN/Remote access gateways are properly configured as per defined corporate policies and are being patched regularly.
- Keep anti-virus definition and system patching up to date

8. Process Report Incident

- Reporting any security issues to the IT Team
- Educate users on what all qualifies as a security incident and importance of reporting any security issues to the IT Team
- Outlook plugin will be an added advantage to report suspicious emails.
- Ask the security monitoring teams to keep a close look on active threats and campaigns triggered to exploit the COVID situation

9. Using Secure means of Communication

- Any interaction related to work need to be communicated through secure means of communication or Security enabled tools
- Do not use freeware for any video conferencing or data sharing related to corporate information exchange.

About Happiest Minds Technologies

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