THE IT GUYS I/O LLC

One Call. Problem Solved

CYBERATTACK RISK ASSESSMENT

The IT Guys I/O, LLC

Prepared for:
Sam's Windows & Doors

16-Aug-2023

3088 N Clybourn Ave, Burbank, CA | 866-560-8280 | info@theITguys.io | www.theITguys.io

INTRODUCTION

CYBERATTACK RISK ASSESSMENT

A cyberattack risk assessment is a systematic examination of your organization's potential vulnerabilities to cyber-attacks and the likelihood of such attacks occurring. It involves identifying, analyzing, and prioritizing potential security threats, and evaluating the current security measures in place to mitigate those threats.

The goal of a cyberattack risk assessment is to identify areas of risk and recommend steps that can be taken to reduce the risk of a successful attack, thereby improving the overall security posture of your organization.

CONTENT

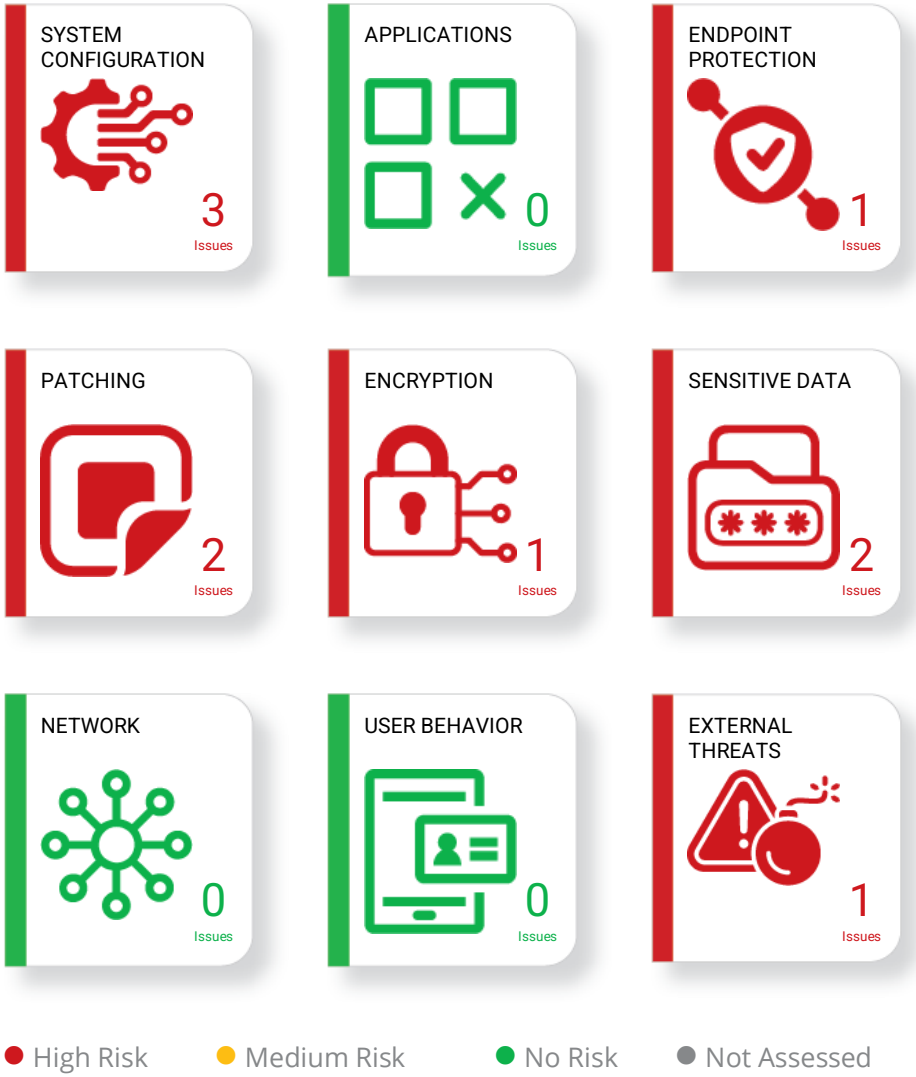
EXECUTIVE SUMMARY

POTENTIAL DATA BREACH LIABILITY

$1,165

OVERALL RISK SCORE

100



● High Risk ● Medium Risk ● No Risk ● Not Assessed

Top Risk

1. **Potential compromised account credentials**
2. **Unsupported Operating Systems pose a threat**
3. **Able to crack passwords found in browser**
4. **Verified lack of protection against malicious file download**

WHY IS THIS IMPORTANT?

This "blue team" report summarizes our activities and findings for protecting your organization's information systems and networks. We use various tactics, techniques, and procedures (TTPs) to simulate an attack on the systems, assess the security posture, and identify potential weaknesses. This report documents the results, including the vulnerabilities discovered, and recommendations for improvement. The report is intended to serve as a reference for management to help guide their security efforts and prioritize resources.

Prepared for: Sam's Windows & Doors
www.theITguys.io | 16-Aug-2023

THE IT GUYS I/O LLC
One Call. Problem Solved

FINDINGS
CYBERATTACK RISK ASSESSMENT

Here is a summary list of the vulnerabilities and issues detected in each category. A more detailed description of each of these vulnerabilities can be found in the last section of this report.

Endpoint Protection

High Risk

1 Issues Found

1	Verified lack of protection against malicious file download

Encryption

High Risk

1 Issues Found

1	Bitlocker not enabled on Windows computer

External Threats

High Risk

1 Issues Found

1	Potential compromised account credentials

Patching

High Risk

2 Issues Found

1	Missing security patches
2	Recent failed patches

FINDINGS

CYBERATTACK RISK ASSESSMENT

Sensitive Data

High Risk

2 Issues Found

1	Sensitive data found
2	Able to crack passwords found in browser

System Configuration

High Risk

3 Issues Found

1	Unsupported Operating Systems pose a threat
2	Using a Student Edition or Limited-Edition Windows OS
3	Insecure Password Policy - Maximum password age greater than 90 days

System Configuration

High Risk | 3 issues found

Findings

1 Unsupported Operating Systems pose a threat

Why is this important?
Unsupported Operating Systems pose an inherent risk to the environment because they cannot be patched. Overall, unsupported operating systems can lead to decreased security, increased risk of compliance violations, technical limitations, and a lack of support, which can negatively impact IT operations and the reputation of the business.

2 computers affected
- SGODWIN-18
- MWINKER-18

2 Insecure Password Policy - Maximum password age greater than 90 days

Why is this important?
Setting the maximum password age greater than 90 days can reduce the effectiveness of passwords as a security measure. Limiting the age of passwords protects against breaches where old passwords are exposed.

1 computer affected
- SGODWIN-18

3 Using a Student Edition or Limited-Edition Windows OS

Why is this important?
Use of a student edition or limited edition of Windows OS may lead to lower security and performance. Pro and Enterprise versions of Windows include several built-in features such as BitLocker encryption, Remote Desktop, and Hyper-V virtualization. Most importantly encryption provides protection in the event of loss or theft. Consider upgrading to a Pro or Enterprise version or implementing alternative methods to provide encryption and other enterprise class features.

1 computer affected
- MJANESPC

UNSUPPORTED OPERATING SYSTEMS

THE TOP 5 DANGERS OF
Unsupported Operating Systems

The security issues from using an unsupported operating system can put your system and your business at risk. It is generally recommended to use supported software that receives regular updates and patches to help protect against these dangers.

1. Security Vulnerabilities
Unsupported software is no longer being updated with security patches, leaving it vulnerable to new security threats and exploits. Attackers can exploit these vulnerabilities to gain unauthorized access to your system, steal sensitive information, or launch attacks against other targets.

2. Compatibility Issues
Unsupported software may not be compatible with modern hardware or other software, leading to crashes, data corruption, or other issues. This can make it difficult or impossible to use the software effectively, or to exchange data with other systems.

3. Compliance Violations
Using unsupported software can put you at risk of violating regulatory requirements or industry standards. For example, if you are using unsupported software to store or process sensitive data, you may be violating data protection laws or industry regulations.

4. Business Disruption
If unsupported software experiences problems or becomes unusable, it can disrupt your business operations. This can result in lost productivity, missed deadlines, or other negative consequences

5. Lack of Support
If you encounter problems or have questions about unsupported software, you may not be able to get help from the manufacturer or other support channels. This can make it difficult to troubleshoot issues or get the assistance you need to use the software effectively.

SYSTEM CONFIGURATION

RISK

2 computers affected

- SGODWIN-18
- MWINKER-18

Why is this important?

Unsupported operating systems may have known security vulnerabilities that have not been patched and will not receive security updates from the manufacturer, making them more susceptible to attacks. Overall, this can lead to decreased security, increased risk of compliance violations, technical limitations, and a lack of support, which can negatively impact the overall operation and reputation of the organization.

Endpoint Protection

High Risk | 1 issue found

Findings

1 Verified lack of protection against malicious file download

Why is this important?
We tested system security by downloading a benign, anti-malware test file that should have been blocked by your firewall and/or endpoint protection. This is a security threat because it allows attackers to introduce malware into systems and networks that can compromise system security, introduce ransomware, steal sensitive information, modify or delete files, or use the system as a gateway to launch further attacks. To mitigate the risk of security breaches, organizations should implement effective security measures, including using up-to-date firewalls and antivirus software.

1 computer affected

- MJANESPC

LACKING MALICIOUS FILE PROTECTION

ENDPOINT PROTECTION

RISK

1 computer affected

· MJANESPC

Why is this important?

We tested system security by downloading a benign, anti-malware test file that should have been blocked by your firewall and/or endpoint protection. This is a security threat because in the event someone clicked on a malicious link, malware or ransomware could be downloaded onto those systems, causing a data breach and compromising system security.

Patching

High Risk

2 issues found

Findings

1 Missing security patches

Why is this important?
Security patches are released by vendors to address vulnerabilities and improve system security. By not installing these patches, organizations leave their systems exposed to known threats. To mitigate the risk of security breaches, organizations should implement effective patch management programs to identify, prioritize and install necessary patches, and establish policies and procedures to ensure prompt application of patches to prevent potential exploitation by attackers.

1 computer affected
- MWINKER-18

2 Recent failed patches

Why is this important?
Failed patches can leave systems in a partially patched state, which can be exploited by attackers to gain unauthorized access to systems, steal sensitive information, or launch further attacks. To mitigate the risk of security breaches, organizations should monitor patch installations closely, regularly test the effectiveness of patches, and quickly remediate failed patches. This can include backing up systems before applying patches, deploying patches to a small subset of systems before a broad rollout, and validating the success of patch installations.

2 computers affected
- MJANESPC
- SGODWIN-18

MISSING CRITICAL PATCHES

PATCHING

RISK

1 computer affected

- MWINKER-18

Why is this important?

Missing critical patches are a threat to organizations because unpatched software and operating systems can have known security vulnerabilities that can be exploited to gain access to sensitive information, disrupt operations, and cause damage to systems and data. By not keeping systems patched, organizations leave themselves open to these types of threats and increase their overall risk of a successful cyber-attack.

Encryption

High Risk

1 issue found

Findings

1 Bitlocker not enabled on Windows computer

Why is this important?
BitLocker is a built-in encryption feature in Windows that helps protect data on a computer's hard drive from unauthorized access. Not enabling BitLocker can become a security risk because if a computer is lost or stolen, an attacker could potentially access sensitive data on the hard drive. Enabling BitLocker helps protect sensitive data on the hard drive, reducing the risk of security incidents.

3 computers affected

- DESKTOP-O319KDN
- MWINKER-18
- MJANESPC

Sensitive Data

High Risk | 2 issues found

Findings

1 Able to crack passwords found in browser

Why is this important?
The ability to crack passwords found in a browser can become a security risk as it can be used by an attacker to obtain passwords and gain access to sensitive accounts. Password cracking tools are readily available and easy to use. To minimize risk, users should avoid storing credentials in browsers.

103 credentials affected
- m_winker@samswin.com
- mhwinker@samswin.com
- nqrest6@intrepid7s.com
- MWINKERUS
- 99 additional credentials

2 Sensitive data found

Why is this important?
Examples of sensitive data include information pertaining to credit card, driver's license, bank accounts, and other similar information. If a computer is lost or stolen, an attacker could potentially access sensitive data and use it for malicious purposes. Malware could also access and steal sensitive data, and unauthorized users could compromise the data. Sensitive data may be subject to legal and regulatory requirements, and failure to protect this data could result in legal and financial consequences. Strong access controls, encryption, and regular backups can help reduce the risk of security incidents.

1 computer affected
- DESKTOP-O319KDN

External Threats

High Risk | 1 issue found

Findings

1 Potential compromised account credentials

Why is this important?
Compromised account credentials are user account details that have been found during a Dark Web scan. Attackers can use these credentials to access user accounts and perform malicious activities such as stealing data, modifying system settings, or launching further attacks. To mitigate this threat, passwords should be changed using strong, unique passwords, multi-factor authentication should be enabled, and suspicious account activity should be regularly monitored.

95 credentials affected

- tty@samswin.com
  pwd: 94CP****
- 28101cfcsider-lsunic...
  pwd: ecs1****
- 93 additional credentials

LEAKED CREDENTIALS

EXTERNAL THREATS

RISK

95 credentials affected

- tty@samswin.com
  pwd: 94CP****
- 28101cfcsider-lsunic...
  pwd: ecs1****
- 93 additional credentials

Why is this important?

Compromised or "leaked" account credentials are user account details that have been found during a Dark Web scan. Attackers can acquire and use these credentials to access user accounts and perform malicious activities such as stealing data, modifying system settings, or launching further attacks. To mitigate this threat, passwords should be changed using strong, unique passwords, multi-factor authentication should be enabled, and suspicious account activity should be regularly monitored.