



Be Ready ✓
Plan Ahead ✓
Take Action ✓
Follow Up ✓

YOUR CYBERSECURITY CHECKLIST

Technology has transformed the way we all do business for the better. However, to keep your data and business from being at risk, you must ensure your tech is secure and continuously monitored. We're providing this detailed checklist as a reference tool to help you verify that adequate cybersecurity and physical security policies are in place throughout your organization.

Cybersecurity is defined as a system of technologies, processes, and practices designed to protect your computers, networks, applications, and data from attack, damage, or unauthorized access.

IDENTIFICATION PROCEDURES

- | | YES | NO |
|---|--------------------------|--------------------------|
| • Do all your staff members have Photo ID badges? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do they wear them at all time when in your facility? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you provide temporary ID badges for visitors? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you check the credentials of visitors? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Is a policy in place for conducting background checks for employees and visitors? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Can you cut off access to employees and visitors if necessary? | <input type="checkbox"/> | <input type="checkbox"/> |

PERSONAL & PHYSICAL SECURITY

- | | YES | NO |
|--|--------------------------|--------------------------|
| • Do you have procedures in place to prevent unauthorized physical access to computers and other electronic information systems? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have solutions in place to prevent physical access to your secure areas, such as door locks, access control systems, security offices, or video surveillance monitoring? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have security desks, and sign-in/sign-out logs for users accessing these areas? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you physically escort visitors out of secure areas? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Can you ensure users always log out of their computers when leaving them? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Are all computers set to lock automatically after 10 minutes if left idle? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Can you remotely wipe computers, laptops, and mobile devices that are lost or stolen? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Are all modems in Auto-Answer OFF mode when not in use? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Is there a policy in place to protect data during equipment repairs? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have security policies in place for all of your computers, laptops, tablets, and smartphones? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have a "Bring Your Own Device" policy in place for employee mobile devices? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have emergency evacuation plans in place for employees? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do all employees have emergency shelter-in-place kits for emergencies where they can't leave your facility? (canned food and a can opener, bottled water, a blanket, prescription medicines, sanitary wipes, a garbage bag with ties and toilet paper for personal sanitation) | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do key employees know how to seal off designated areas in your facility if necessary? | <input type="checkbox"/> | <input type="checkbox"/> |

PASSWORD POLICIES

- | | YES | NO |
|--|--------------------------|--------------------------|
| • Do you adhere to the NIST Digital Guidelines? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do only authorized personnel have password access to computer devices? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you require users adopt secure password standards (NIST) and then enforce them? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Are passwords updated every three months? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do administrators have separate accounts for network management? | <input type="checkbox"/> | <input type="checkbox"/> |

DATA PRIVACY POLICIES

- | | YES | NO |
|--|--------------------------|--------------------------|
| • Is your data stored in a secure offsite facility? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Is all confidential data encrypted? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have procedures in place to identify and secure the location of confidential information – whether as digital or hard copies? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have procedures in place to identify and secure the location of personal private information? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you continually create retrievable backup and archival copies of critical information? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have procedures in place for shredding and securely disposing of paper documents? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you lock your shredding and recycling bins? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have policies in place for secure disposal of electronic/computer equipment? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have policies in place for secure disposal of electronic media such as thumb drives, tapes, CDs and DVDs, etc.? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have procedures in place to regularly assess I.T. compliance with required regulations (HIPAA, PCI, FINRA, etc.)? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you conduct regular reviews of users with physical access to protected facilities or electronic access to information technology systems? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you employ systems in a hardened/secure state? | <input type="checkbox"/> | <input type="checkbox"/> |

BUSINESS CONTINUITY & DISASTER RECOVERY

- | | YES | NO |
|--|--------------------------|--------------------------|
| • Do you have an up-to-date business continuity and disaster recovery plan in place? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Can you create retrievable backups of critical data? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Are your backups stored offline in a secure cloud? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Does your backup, continuity, and recovery plan include a method for accessing critical passwords for equipment, systems, and servers when needed? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Does your backup, continuity, and recovery plan include a method for accessing encryption keys in an emergency? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Do you have an up-to-date crisis communications plan? | <input type="checkbox"/> | <input type="checkbox"/> |
| • Does your crisis communications plan identify who should be contacted, how to contact them, contact information, and who initiates the contacting? | <input type="checkbox"/> | <input type="checkbox"/> |

BUSINESS CONTINUITY & DISASTER RECOVERY

YES NO

- Do you have a PR representative who will communicate to the press and community in an emergency? YES NO
- Does your crisis communications plan detail how employees can contact their family members? YES NO
- Have you identified recovery time objectives for each system, and tested for achievability? YES NO
- Do you regularly test your business continuity, disaster, and crisis communications plans? YES NO

CYBERSECURITY TRAINING

YES NO

- Do you provide staff training from an I.T. expert on cybersecurity? YES NO
- Do you provide this training on a regular basis? YES NO
- Does your staff know how to recognize phishing attempts in emails? YES NO
- Does your staff know how to recognize phishing attempts that arrive via text, social media, or phone calls? YES NO
- Are your employees trained on reporting phishing emails to the security team? YES NO
- Are your employees being taught about using secure passwords? YES NO
- Are your employees trained to identify and protect classified data, as well as hard copies of documents and removable media? YES NO
- Is your staff trained on secure management of credit card data (PCI standards) and private personal information? YES NO

COMPLIANCE REVIEW

YES NO

- Do you regularly review and update your cybersecurity requirements, strategies, plans, and practices? YES NO
- Do you conduct regular audits of your security requirements, strategies, plans, and practices? YES NO
- Are you testing your backup and disaster recovery plans regularly? YES NO
- Do you conduct regular reviews of who in your organization has access to sensitive information and data? YES NO
- Do you have an inventory of your authorized devices and software? YES NO
- Do you regularly test all your systems for vulnerabilities? YES NO
- Are you following the best practices established by the Center for Internet Security (CIS) in their CIS Top 20 list? YES NO

For each question where you answered “No,” you should implement activities to correct the deficits or vulnerabilities to the security of your data, facility, or personnel. Unless you take action, the ability for your business to thrive/survive will be negatively impacted. Be sure to also follow up and reassess by completing this survey again in six months’ time. After that, we advise that you continue to review these questions on an annual basis.

CYBERSECURITY THREAT/RISK ASSESSMENT

A cybersecurity threat is a person or a thing that accidentally triggers or intentionally exploits a vulnerability or weakness within your organization. A number of threats may be present within your network or operating environment. Threats can come from natural and environmental elements as well as from people.

Natural Threats:

- Storm/Flood Damage
- Fire
- Lightning Strikes
- Hurricanes/Tornadoes

Environmental Threats:

- Power Outages
- Chemical Spills
- Pollution

Human Threats:

- Computer Abuse
- Terrorism
- Sabotage
- Vandalism
- Fraud
- Errors/Negligence
- Falsified Data
- Unauthorized Access
- System Tampering

CALCULATE YOUR RISK

“Risk is a combination of the likelihood of an occurrence of a hazardous event or exposure(s) and the severity of injury of ill health that can be caused by the event or exposure(s).” (OHSAS 18001:2017) Risk is part of every business environment, but unless you can keep risk in check, it can grow. Losses can be avoided by assessing the potential for these threats and vulnerabilities and determining the specific risks your organization faces.

Risk = Impact x Likelihood

Use this numeric rating scale to determine your potential risk.

Impact (0-6) Likelihood (0-5)

When assessing the impact, consider the value of the assets that are at risk, what it will cost to replace them, and their importance. The things that affect likelihood include threat capability, frequency of occurrence, and the effectiveness of the countermeasures available to you.

IMPACT SCALE

- The impact is negligible.
- The effect is minor. Most operations are not affected.
- Your operations shut down for a period of time, resulting in financial loss. Customer confidence is slightly affected.
- You experience a loss of operations resulting in a significant impact on public/customer confidence.
- The effects are devastating. Systems shut down for extended periods of time. Systems must be rebuilt and data must be replaced.
- The effect is ruinous. Critical systems go offline for extended periods of time. Data gets lost or is corrupted beyond repair. The health and safety of employees is affected.

LIKELIHOOD SCALE

- Not likely to occur.
- Not likely to occur more than once a year.
- This is likely to occur once a year.
- This is likely to occur once a month.
- This is likely to occur each week.
- This is likely to occur on a daily basis.

People can significantly impair the ability of your organization to operate effectively.

PEOPLE

DESCRIPTION

Stakeholders	Employees, owners, stock holders, etc.
Contractors	Cleaning company, maintenance contractors, technical support, computer repair services, etc.
Former Employees	Retired, resigned, or were fired
Unauthorized Users	Cybercriminals, terrorists, and intruders

Use the following to assess your risk level for each threat/vulnerability.

SCORE	RISK LEVEL	RISK RESULT
21-30	High Risk	<ul style="list-style-type: none"> Major loss of assets, data, or information resources. Completely disrupts operations for a week or more. Destroys your reputation.
11-20	Medium Risk	<ul style="list-style-type: none"> Substantial loss of assets, data, or information resources. Disrupts operations for a few days. Damages your reputation.
1-10	Low Risk	<ul style="list-style-type: none"> There is a minor loss of assets or information resources. Slightly affects the organization's operation (for less than one day). Minor loss to reputation.

ASSESS THREATS AND VULNERABILITIES

Enter your Impact and Likelihood numbers to assess your threat level.

HUMAN THREATS	Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
Human Error			
• Accidental deletion, modification, disclosure, or wrong classification of information.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Negligence: lack of security awareness or conduct, inadequate documentation, uninformed.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Workload: lack of adequate staff, and employees feel stressed.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Users knowingly reveal security weaknesses to criminals.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Improper system configuration.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Inadequate security policies.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Security policies are not enforced.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Security analysis incorrect or inadequate.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Corruption			
• Fraud, theft, selling of confidential information.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Social Engineering Attacks			
• Criminals use email or phone calls and impersonate an employee to gain confidential information.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Criminals execute Trojan Horse and malware programs due to employees inadvertently letting them into your network.	<input type="text"/>	<input type="text"/>	<input type="text"/>
Abuse of Trust			
• Long-term or high-level employees take advantage of relaxed security policies.	<input type="text"/>	<input type="text"/>	<input type="text"/>

GENERAL THREATS

	Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
• Unauthorized use of computers.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Mistakenly combining test and production data or environments.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Use of unauthorized software or hardware.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Design errors in operating system (using a system not designed to be highly secure).	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Protocol design errors: certain protocols were not designed to be highly secure. Protocol weaknesses in TCP/IP can result in:	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Source routing, DNS spoofing, TCP sequence guessing, unauthorized access.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Time bombs: software programmed to damage a system on a certain date.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Hijacked sessions and authentication session/transaction replay, data is changed or copied during transmission.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Denial of service due to ICMP bombing, TCP-SYN flooding, large PING packets, etc.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Logic bomb: software programmed to damage a system under certain conditions.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Viruses in programs, documents, email attachments.	<input type="text"/>	<input type="text"/>	<input type="text"/>

ACCESS CONTROL THREATS

	Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
• Password hacking.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• External access to password files, and packet sniffers to access data.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• External attack programs gain unauthorized access to the network (backdoors).	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Internal attack programs gain unauthorized access to the network.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• The existence of unsecured maintenance modes via developer backdoors.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Modems that open an uncontrollable extension of the internal network.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Bugs in network software that leave security holes.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Unauthorized physical access to your system.	<input type="text"/>	<input type="text"/>	<input type="text"/>

REFUSAL THREATS

	Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
• Those receiving confidential information refuse to acknowledge receipt.	<input type="text"/>	<input type="text"/>	<input type="text"/>
• Those sending confidential information refuse to acknowledge the source.	<input type="text"/>	<input type="text"/>	<input type="text"/>

LEGAL/REGULATORY THREATS

- There's a failure to comply with legal/regulatory requirements, such as protecting confidentiality of employee or customer data.
- Your organization is liable for actions by employees or internal users who use your network to conduct unlawful activities (such as money laundering, pornography, gambling, etc.)
- Your organization is liable for damages because employees or other internal users hack other sites.

Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

LEGAL/REGULATORY THREATS

- Your productivity and services are halted due to disasters: fire, smoke, water, earthquake, storms (hurricanes, tornadoes), power outages, etc.
- Your productivity and services are interrupted due to minor disasters of short duration.
- Major human-caused disasters such as war, terrorism, bombs, civil disturbances, chemical spills, radiological accidents, etc. halt or interrupt your productivity and services.
- Defective hardware, cabling, communications systems, or other equipment cause interruptions in productivity or services.

Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

LEGAL/REGULATORY THREATS

- Misuse of routing protocols that confuse and mislead systems.
- Server overloading that shuts down systems.
- Email bombing by bad actors.
- Downloading or receipt of malware.
- Sabotage with deliberate damage to data or information processing functions.
- Destruction of physical network interface devices, cables, etc.
- Destruction of computing devices, media, etc.
- Destruction of devices and media with electromagnetic radiation weapons.
- Deliberately overloading electricity or shutting it off.
- Deploying viruses and/or worms to delete critical systems files.
- Overloading data circuits with a large volume of frivolous requests.

Impact (0-6)	Probability (0-5)	Score (Impact x Likelihood)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
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<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

REMEDIATION ACTIVITIES

After assessing, reviewing, and rating potential threats and vulnerabilities, you should determine what actions you can take to reduce your risk. This means employing security controls, and/or increasing the strength of existing controls. Always balance the cost of doing this against the expected security benefit and risk reduction. Most remediation efforts and actions focus on the high-risk threats and vulnerabilities first.

The following table lists remediation activities you can take. They are prioritized based on their effectiveness.

RANK	REMEDIATION ACTIVITY	COST	BENEFIT	RISK
1	Establish security policies, practices, and procedures. This is very important during times of change.	Low	High	High
2	Develop and enforce a globally-accepted password strategy.	Low	High	High
3	List vulnerabilities in order of high to low risk.	Low	High	High
4	Facilitate discussions to improve processes and communications.	Low	High	High
5	Set up and follow router configuration security standards and best practices.	Low	High	High
6	Harden servers on the network.	Low	High	High
7	Incorporate worker termination activities with H.R. and I.T. policies.	Low to Moderate	High	High
8	Conduct new-hire orientation, security awareness training, and annual "refresher" courses for all employees.	Low to Moderate	High	High
9	Utilize N-Tier architecture and Defense of Depth in the design of your internet perimeter and enterprise architecture.	Low to Moderate	High	High
10	Convert to a centralized and integrated model of operations management that incorporates centralized logging, event correlation, and alerting.	Low to Moderate	High	High
11	Install an intrusion detection system.	Moderate	High	High
12	Deploy encryption on mobile devices to protect the confidentiality and integrity of data.	Moderate to Expensive	High	High
13	Employ data classification to define security levels.	Moderate to Expensive	High	High
14	Conduct vulnerability assessments on a regular basis.	Moderate to Expensive	High	High
15	Designate email as mission-critical.	Low	Moderate	Medium
16	Ensure adequate security staffing for the ISO Security Group.	Expensive	High	High
17	Implement Computer Security Incident Response Team (CSIRT) capabilities.	Moderate to Expensive	High	High

As you can see, securing your organization's technology is a complex task. Yet with the help of an expert I.T. partner, you can rest assured your company is safe. For more information, contact JMARK Business Solutions at 844-44-JMARK or email JMARKIT@JMARK.com. Our team has the knowledge and skill to secure your business and keep your company safe.