



SCOTT
MACLEAN

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PLAYBOOK: RANSOMWARE

FOR TESLA INC.

PREFACE

This document is a ransomware playbook tailored specifically to Tesla, Inc. It provides a comprehensive guide for all employees, contractors, and third-party vendors on how to prepare for, respond to, and recover from ransomware incidents.

This playbook is designed to be a living document, regularly reviewed and updated to adapt to the evolving threat landscape. It should be used in conjunction with Tesla's broader cybersecurity policies and procedures.

Key Objectives:

- Minimize the impact of ransomware attacks on Tesla's operations, data, and reputation.
- Ensure a swift and coordinated response to contain and eradicate ransomware infections.
- Facilitate the rapid recovery of critical systems and data.
- Promote a security-conscious culture among all Tesla personnel.

For more information, please contact the Tesla Security Operations Center:

- Email: soc@tesla.com
- Phone: +1 (800) TSLA-SOC

Ransomware attacks can be detected through various channels, including:

- Automated antivirus (AV) alerts
- Detection from email filters
- Unusual activity on devices or networks
- Reports from end users

Anyone identifying a potential ransomware attack should report it immediately to the Tesla IT Help Desk at +1 (888) 51-TESLA.

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EXECUTIVE SUMMARY

Tesla, Inc. recognizes the critical importance of cybersecurity in protecting its operations, intellectual property, and customer trust. In alignment with the National Institute of Standards and Technology (NIST) Incident Response Framework and the Canadian Centre for Cyber Security's guidance on ransomware prevention (ITSAP.00.099), this Ransomware Incident Response Playbook establishes a comprehensive, strategic approach to cybersecurity threat management. The playbook integrates three critical policies that form the cornerstone of Tesla's ransomware defense strategy: the Software Update and Patching Policy, the Data Backup Policy, and the Strong Authentication Policy.

These policies provide a robust framework for preventing, detecting, and responding to ransomware threats. The Software Update and Patching Policy ensures timely application of critical security updates across all systems, the Data Backup Policy mandates daily encrypted backups with secure off-site storage, and the Strong Authentication Policy enforces multi-factor authentication and comprehensive access control mechanisms. By following the NIST 7-Step Incident Response Protocol, Tesla has developed a structured, methodical approach that enables quick identification and containment of security incidents, effective eradication and recovery from attacks, and continuous improvement of cybersecurity capabilities.

Tesla is committed to maintaining the highest standards of cybersecurity, protecting the organization, its employees, and customers from emerging digital threats. This playbook reflects our proactive stance in minimizing the potential impact of ransomware incidents and maintaining operational resilience. It will be subject to regular review and continuous improvement, ensuring that our incident response strategy remains adaptive and effective in the face of evolving cybersecurity landscapes. Developed in consultation with leading cybersecurity best practices and aligned with NIST and Canadian Centre for Cyber Security guidelines, this document represents Tesla's comprehensive commitment to digital security.

The template used for this playbook is CyberAlberta's "Ransomware Playbook" Published February 2024.

1. PREPARATION

Below are the steps all personnel at Tesla Inc and third party vendors, should take to prepare the company against a ransomware attack and mitigate further data loss.

1. Establish Strong Authentication Protocols

Responsible Parties:

- Chief Information Security Officer (CISO)
- Identity and Access Management (IAM) Team

Specific Actions:

Implement mandatory Multi-Factor Authentication (MFA) for ALL user accounts

Enforce password requirements:

- Minimum 8 characters
- Must include one capital letter
- Must include one digit
- Must include one special character
- Mandate monthly password changes
- Require additional authentication for remote services (e.g., cell phone verification)

NIST Reference: Multi-factor authentication guidance (March 12, 2024)

2. Develop Comprehensive Data Backup Strategy

Responsible Parties:

- Data Center Manager
- Backup Administrators
- IT Operations Team

Specific Actions:

- Perform daily backups of ALL critical business data
- Store backups in secure, off-site locations
- Encrypt backups using AES-256 encryption
- Conduct weekly backup process tests to ensure functionality

NIST Reference: "PROTECTING DATA FROM RANSOMWARE AND OTHER DATA LOSS EVENTS"

1. PREPARATION

3. Implement Robust Software Update and Patching Procedure

Responsible Parties:

- Director of IT Operations
- System Administrators
- Security Operations Center (SOC) Manager

Specific Actions:

- Apply critical security updates within 48 hours of release
- Use automated patching mechanisms wherever possible
- Implement regular vulnerability scanning program
- Test updates in non-production environment before deployment
- Maintain a detailed Ransomware Playbook for update procedures

(Souppaya, M., & Scarfone, K. (2022, April 6). Guide to enterprise patch management planning: Preventive maintenance for technology. CSRC)

4. Conduct Comprehensive Security Awareness Training

Responsible Parties:

- Security Awareness Training Team
- CISO

Specific Actions:

- Develop training modules on:
 - Strong authentication practices
 - Recognizing potential ransomware threats
 - Proper data handling and backup procedures
- Conduct mandatory quarterly training sessions
- Create clear communication about non-compliance consequences

5. Establish Incident Response Framework

Responsible Parties:

- CISO
- SOC Manager
- IT Operations Team

Specific Actions:

- Create detailed incident response playbook
- Define clear escalation procedures
- Establish communication protocols for potential attacks
- Develop data recovery strategies utilizing encrypted backups

1. PREPARATION

6. Implement Continuous Monitoring and Risk Assessment

Responsible Parties:

- Security Operations Center
- IT Security Team

Specific Actions:

- Monitor authentication logs for suspicious activities
- Regularly assess and update security policies
- Conduct periodic risk assessments
- Maintain exception request process for patching with formal risk documentation

RANSOMWARE FLOWCHART

A ransomware attack is reported or discovered

Identification

(1) Assess the nature of the malicious activity:

(2) Notify Tesla Cybersecurity Operations Management (CISO, SOC Manager)

(3) Activate the Cybersecurity Incident Response Team (CSIRT) to conduct an immediate investigation into the scope and impact of the suspected ransomware attack

Containment, Eradication & Recovery

(4) Engage the forensics team, if one exists, to preserve evidence, to be used for root cause analysis

(5) Engage operations teams (e.g., server team, storage team) to aid in the implementation of the response plan

(6) Provide an interim incident report to the service owners of the affected system(s).

(7) Suspend the login credentials of confirmed and suspected compromised accounts.

(8) Quarantine Infected Endpoints

(9) Disable Compromised Accounts

(10) Isolate Cloud Resources

(11) Validate Backups

(12) Identify and Remove Malware

(13) Document Eradication Actions

(14) Restore systems and data from the most recent clean backups

(15) Rebuild network infrastructure components that were impacted by the ransomware attack

(15) Reset passwords for all user accounts

Lessons Learned & Ongoing Improvement

(16) Deconstruct the ransomware's code within a secure sandbox to extract actionable intelligence

(17) Submit ransomware samples to multiple antivirus providers

(18) Forensic investigation of affected systems

(19) Draft a post-incident report

(20) Complete formal lessons learned

(21) Regularly Review and Update the Ransomware Playbook

(22) Conduct Regular Vulnerability Assessments and Penetration Testing

(23) Create engaging and relevant security awareness training programs that address the latest ransomware threats and social engineering techniques

(24) Strengthen Backup and Recovery Procedures

2. IDENTIFICATION

Once a ransomware incident has been reported, it enters the identification phase. Key activities that occur during the identification phase include, but are not limited, to the following:

Activity	Actions
1	<p>Assess the nature of the malicious activity:</p> <ul style="list-style-type: none">• Determine if data has been encrypted• Have you or any team members received any email or communication asking for a ransom amount• Check logs for brute force login attempts
2	<p>Upon initial suspicion of a potential security incident, promptly engage Tesla's CISO and SOC/CSIRT teams. This proactive measure ensures immediate awareness and coordination among key decision-makers. While full confirmation of a malware attack may be pending, early engagement allows for preliminary assessments.</p>
3	<p>Activate the Cybersecurity Incident Response Team (CSIRT) to conduct an immediate investigation into the scope and impact of the suspected ransomware attack. The CSIRT should prioritize the following actions:</p> <ul style="list-style-type: none">• Determine the extent of data encryption, potential data loss, and if a data breach has occurred.• Conduct a preliminary assessment of the impact on business operations, including critical services, production, and customer-facing systems.• Investigate how the incident was initially reported and identify potential attack vectors (e.g., phishing emails, compromised credentials, software vulnerabilities).• Analyze the ransomware to determine its variant, capabilities, and any unique characteristics.• Identify all affected assets, the extent of ransomware spread, and the risk of further propagation.• Leverage threat intelligence feeds and conduct research to determine if the attack is targeted and to inform mitigation strategies.• Analyze relevant logs (AV, system events, network monitoring) for indicators of compromise and suspicious activity.• Thoroughly document all findings, actions taken, and ongoing efforts. <p>This structured approach ensures a comprehensive initial assessment, enabling informed decision-making and effective incident response.</p>

IDENTIFICATION TIMELINE

Timing	From	To	Message
After initial investigation and confirmation of ransomware incident	SOC/CSIRT	<ul style="list-style-type: none"> • CISO • Corporate Communication • Local Law Enforcement 	<ul style="list-style-type: none"> • Confirmation of incident and extent of incident, as well as high level plan to resolve the incident. • Ransomware is a crime and just as any other crimes, the information should also be reported to law enforcement. • Consider identifying a contact for your Corporate Communications team who can facilitate reviews and approvals.
If a privacy breach is suspected	SOC/CSIRT	<ul style="list-style-type: none"> • Federal Trade Commission (FTC): • CEO • CISO 	<ul style="list-style-type: none"> • Communicate incident details and evidences suggesting that this may result in a privacy incident. Provide details as to the records and individuals whose data might be compromised.
In response to multiple public concerns or media inquiries	Communications	Public	<ul style="list-style-type: none"> • Craft high-level holding statements acknowledging the service disruption and emphasizing that Tesla is actively investigating the cause. • Express appreciation for customers' understanding and patience.

3. CONTAINMENT

The response phase prioritizes swift execution of key activities to minimize downtime and restore operations following a ransomware attack.

1. Engage the forensics team, if one exists, to preserve evidence, to be used for root cause analysis
2. Engage operations teams (e.g., server team, storage team) to aid in the implementation of the response plan
3. Isolate Affected Systems (NIST PR.AC-5):
 - Disconnect compromised computers, servers, and network segments from the network (wired and wireless).
 - Block malicious IP addresses from suspected attacker at the firewall.
 - Implement network segmentation to contain the infection.
4. Provide an interim incident report to the service owners of the affected system(s).
5. Suspend the login credentials of confirmed and suspected compromised accounts.
6. Quarantine Infected Endpoints:
 - Isolate infected laptops, workstations, and other endpoints to prevent communication with other devices.
7. Disable Compromised Accounts:
 - Temporarily disable user accounts suspected to be compromised or associated with infected devices.
8. Isolate Cloud Resources (NIST SC-7 21):
 - If any cloud-based systems are impacted, isolate them from the rest of the environment.
 - Review cloud security configurations and access controls.
 - Monitor cloud logs and activity for signs of compromise.

4. ERADICATION

This section outlines the steps to completely remove the ransomware and any associated malware from Tesla's systems

1. Validate Backups:

- Before proceeding with eradication, verify the integrity and availability of backups for all affected systems and data. This confirms that you have a reliable recovery point in case of unforeseen issues during the eradication process.

2. Identify and Remove Malware (NIST Special Publication 800-83):

- Utilize anti-malware and endpoint detection and response (EDR) tools to scan all affected systems and identify any remaining ransomware files, processes, or other malicious components.
- Remove all identified malware using the appropriate tools and techniques. This may involve deleting files, terminating processes, and cleaning registry entries.
- Consider using specialized ransomware removal tools if available for the specific variant encountered.

3. Document Eradication Actions :

- Maintain detailed records of all actions taken during the eradication process, including tools used, malware identified, and remediation steps implemented. This documentation is crucial for post-incident analysis and lessons learned.

5. RECOVERY

This section outlines the steps to restore Tesla's systems and data to their pre-ransomware state, ensuring business continuity and minimizing downtime.

1. System Restoration:

- Identify and prioritize the most critical systems and data for recovery based on business impact and operational needs.
- Restore systems and data from the most recent clean backups that predate the ransomware infection. This may involve restoring entire systems or individual files and databases.
- After restoration, thoroughly test systems and applications to ensure they are functioning correctly and that data integrity is maintained.

2. Network Recovery:

- If necessary, rebuild network infrastructure components that were impacted by the ransomware attack. This may include reconfiguring network devices, restoring network segmentation, and implementing enhanced security measures.
- Gradually restore network connectivity for recovered systems, ensuring that they are properly secured and monitored before being reconnected to the network.

3. Data Recovery:

- If decryption keys are available (recovery from backups), decrypt any remaining encrypted data.
- Perform data integrity checks to ensure that recovered data is complete and accurate.

5. User Access Restoration:

- Reset passwords for all user accounts, especially those that may have been compromised during the attack.
- Enable MFA for all user accounts to enhance security and prevent unauthorized access.

CONTAINMENT, ERADICATION AND RECOVERY TIMELINE

Timing	From	To	Message
After initial assessment is completed and initial communication occurred	SOC/CSIRT	<ul style="list-style-type: none">• Forensics Team• IT Support Teams• Leadership	<ul style="list-style-type: none">• Notify Forensics team to preserve any evidence as required for root cause analysis.• IT support teams (namely, server, storage and/or back-up teams) to resolve encrypted files.• Leadership should be provided a high-level resolution plan.
Routinely according to the impact and urgency to restore the data	CISO	Leadership	<ul style="list-style-type: none">• Leadership should retrieve routine status updates.
After the initial impact has been assessed	SOC/CSIRT	Communications Team	<ul style="list-style-type: none">• Message to support stakeholder, internal, and public communications

CONTAINMENT, ERADICATION AND RECOVERY TIMELINE

Timing	From	To	Message
After privacy impacts have been discovered	SOC/CSIRT	Privacy Team	<ul style="list-style-type: none">• The Privacy team will need to be notified to initiate their own processes for response to privacy breaches.
After the initial impact has been assessed and there are any suspected acts, regulation, or policy violations	CISO	Legal Team	<ul style="list-style-type: none">• The legal team should be notified of the nature of the impact, including the type of data, and whom the stakeholders are for this data. They may need to look at the legal implications the breach could present.

6. LESSONS LEARNED

This section details the steps Tesla should take to analyze the ransomware incident, extract valuable insights, and improve its overall cybersecurity posture. It aligns with NIST Cybersecurity Framework's Post-Incident Activity function.

1. Deconstruct the ransomware's code within a secure sandbox to extract actionable intelligence. This analysis will identify:

- Files created or modified.
- Services launched or exploited.
- Registry keys altered.
- Network communication patterns.
- Other behaviors that could aid in eradication and recovery efforts.

2. Utilize antivirus vendor resources:

- Submit ransomware samples to multiple antivirus providers.
- Leverage their analysis to determine the ransomware family and variant

3. Deep Dive into the Attack:

- Forensic investigation of affected systems.
- Root cause analysis to determine how the attack occurred.
- Remediation of identified vulnerabilities.

4. Conduct a Post-Incident Review:

- Assemble a team comprising representatives from all involved departments (security, IT, legal, HR, communications, affected business units) to participate in the review.
- Create a detailed timeline of the ransomware incident, from initial detection to recovery.
- Identify the initial attack vector, how the ransomware spread, the systems affected, and the overall impact on the organization.
- Assess the effectiveness of the incident response at each stage (detection, containment, eradication, recovery). Identify what worked well and areas for improvement.
- Evaluate the effectiveness of internal and external communication, coordination between teams, and decision-making processes.

2. Document Lessons Learned:

- Document the findings of the post-incident review in a detailed report. Include the timeline, attack analysis, response evaluation, and recommendations for improvement.
- Highlight key takeaways and lessons learned.

7. ONGOING IMPROVEMENT

This section outlines the continuous improvement process Tesla should implement to enhance its ransomware preparedness and response capabilities.

1. Regularly Review and Update the Ransomware Playbook:
 - Set a recurring schedule (quarterly) to review and update the ransomware playbook.
 - Integrate insights and recommendations from post-incident reviews, security assessments, and threat intelligence analysis.
 - Refine incident response procedures based on new threats, vulnerabilities, and evolving best practices.
 - Ensure the playbook remains accurate, up-to-date, and aligned with Tesla's current security environment and business objectives.
2. Conduct Regular Vulnerability Assessments and Penetration Testing:
 - Perform frequent vulnerability scans of Tesla's IT and OT systems to identify and prioritize weaknesses.
 - Conduct regular penetration testing to simulate real-world attacks and evaluate the effectiveness of security controls.
 - Address identified vulnerabilities promptly and effectively, prioritizing those that pose the greatest risk.
3. Enhance Security Awareness Training:
 - Create engaging and relevant security awareness training programs that address the latest ransomware threats and social engineering techniques.
 - Perform regular phishing simulations to assess employee susceptibility and reinforce training.
 - Communicate security best practices to employees, including strong password hygiene, safe browsing habits, and reporting suspicious emails.
4. Improve Threat Intelligence Capabilities:
 - Utilize threat intelligence platforms to stay informed about emerging ransomware threats, vulnerabilities, and attack techniques.
 - Participate in information sharing communities to gain insights from other organizations and security experts.
 - Implement threat hunting techniques to proactively identify and mitigate potential threats before they can cause damage.
5. Strengthen Backup and Recovery Procedures:
 - Conduct frequent backup testing to ensure data integrity and recoverability.
 - Utilize immutable storage solutions to protect backups from ransomware encryption.
 - Establish a comprehensive disaster recovery plan that includes procedures for recovering from a ransomware attack.

LESSONS LEARNED AND ONGOING IMPROVEMENT TIMELINE

Timing	From	To	Message
After the incident has been resolved	<ul style="list-style-type: none"> • SOC/CSIRT • CISO 	Executives	Post incident report, including: <ul style="list-style-type: none"> • Root cause analysis • High level information about what happened, when, how it was resolved, and any potential repercussions or related advice to stakeholders • Lessons Learned • Planned preventative measures
After post incident report has been communicated to leadership	PR Team	<ul style="list-style-type: none"> • Clients • Stakeholders 	High level information about what happened, when, how it was resolved, and any potential repercussions or related advice to stakeholders. Consider alignment with previously shared messaging. Never report whether ransom was paid.

APPENDIX A

Understanding Ransomware: Infection, Spread, and Attack Vectors

Ransomware is a type of malicious software (malware) that denies access to your data or systems. It accomplishes this by either locking your screen or encrypting your files. Once a device is infected, the ransomware can often spread to other connected devices and systems on the network.

How Ransomware Infects:

Ransomware can infiltrate your networks and devices in various ways:

- **Drive-by Downloads:** Visiting unsafe, suspicious, or compromised websites can lead to unintentional downloads of ransomware.
- **Phishing:** Opening emails or files from unknown or even seemingly familiar sources can trigger a ransomware infection. This includes clicking on malicious links within emails, social media, or peer-to-peer networks.
- **Infected Devices:** Inserting an infected peripheral device (like a USB drive) into your computer can introduce ransomware.
- **Exposed Systems:** Systems connected to the internet without adequate security measures (such as patching vulnerabilities and using multi-factor authentication) are vulnerable to ransomware attacks.

What Happens After Infection:

- **Ransom Demand:** If your device gets infected, you'll likely see a message on your screen informing you that your files are encrypted or your device is locked. The message will demand a ransom (often in digital currency like Bitcoin or via prepaid cards) in exchange for restoring access.
- **Time Pressure:** Threat actors typically impose a time limit for payment, threatening to increase the ransom, permanently delete your files, or leak your data if you don't comply.
- **Data Leak Extortion:** In some cases, attackers may threaten to publicly release your sensitive data as an additional extortion tactic.

APPENDIX A

Ransomware Attack Vectors:

- **Phishing:** This involves deceptive messages (via email, text, or social media) that trick you into clicking malicious links or opening infected attachments. These messages often appear to be from trusted sources.
- **Drive-by Downloads:** These occur when you visit a compromised website that automatically downloads and installs malware without your knowledge.
- **Malvertising:** Malicious code is injected into legitimate online ads. Clicking on these ads can infect your device.
- **Exposed Services:** Services like Remote Desktop Protocol (RDP) and content management systems can be exploited by attackers to gain access to your devices if not properly secured.

Ransomware Attack Aids:

Beyond the traditional vectors, attackers also leverage:

- **Third-Party and MSP Identities:** Threat actors may impersonate trusted third parties or managed service providers to launch phishing attacks or gain access to your systems.
- **Supply Chain Attacks:** Ransomware can be spread through compromised software updates from vendors in your supply chain.
- **Ransomware as a Service (RaaS):** This model allows even unskilled attackers to purchase and deploy ransomware, with the developers receiving a portion of any ransom payments.

APPENDIX B

Compliance and Legal Obligations

Tesla, Inc. operates in a complex regulatory environment with various legal and compliance obligations related to data protection, privacy, and cybersecurity. This appendix outlines key regulations and reporting requirements relevant to ransomware incidents.

Federal Regulations

Federal Trade Commission (FTC) Act: The FTC has broad authority to enforce data security and privacy practices. While there is no specific federal law mandating data breach notification, the FTC can take enforcement action against companies that fail to implement reasonable data security measures or engage in deceptive practices related to data security. Tesla must ensure its data security practices comply with FTC guidance and expectations. (Competition, B. of, & Staff in the Office of Technology and the Division of Privacy and Identity Protection. (2024, November 12). Privacy and security. Federal Trade Commission)

California Consumer Privacy Act (CCPA) and California Privacy Rights Act (CPRA): As Tesla operates in California, it must comply with the CCPA and CPRA, which provide California consumers with various rights regarding their personal information. This includes the right to know what personal information is collected, the right to delete personal information, and the right to opt-out of the sale of personal¹ information. In the event of a data breach, Tesla must notify affected California consumers and may be subject to penalties for non-compliance. (California Consumer Privacy Act (CCPA). State of California - Department of Justice - Office of the Attorney General)

Industry Standards

Payment Card Industry Data Security Standard (PCI DSS): Tesla processes payment card information for vehicle purchases and other transactions. Therefore, it must comply with PCI DSS, a set of security standards designed to protect payment card data. In the event of a data breach involving payment card information, Tesla must notify its acquiring bank and relevant card brands promptly. A forensic investigation by a PCI Forensic Investigator (PFI) may also be required.

International Regulations

General Data Protection Regulation (GDPR): While Tesla's primary operations are in North America, it also has a presence in Europe and other regions. The GDPR is a comprehensive data protection regulation in the European Union that applies to any organization that processes the personal data of EU residents. Tesla must comply with the GDPR for any personal data it collects from EU residents, including requirements for data breach notification and data subject rights.

(Legal text. General Data Protection Regulation (GDPR). 2024, April 22).

APPENDIX B

Reporting Requirements

In addition to the specific reporting requirements outlined in the regulations above, Tesla may also be required to report ransomware incidents to other authorities, such as:

- Law enforcement: Tesla may need to report ransomware incidents to local, state, or federal law enforcement agencies, depending on the nature and severity of the attack.
- Cybersecurity agencies: Tesla may need to report ransomware incidents to cybersecurity agencies, such as the Cybersecurity and Infrastructure Security Agency (CISA) in the US, to help with threat intelligence and incident response coordination.
- Insurance providers: Tesla may need to report ransomware incidents to its insurance providers to file claims for any losses incurred.
- Tesla maintains a dedicated legal and compliance team to ensure adherence to all applicable regulations and reporting requirements. This team works closely with the incident response team to ensure that all necessary notifications and reports are made in a timely and accurate manner.

CITATIONS AND REFERENCES

California Consumer Privacy Act (CCPA). State of California - Department of Justice - Office of the Attorney General. (2024, March 13). <https://oag.ca.gov/privacy/ccpa>

Cichonski, P., Millar, T., Grance, T., & Scarfone, K. (2012, August 6). Computer Security Incident Handling Guide. CSRC. <https://csrc.nist.gov/pubs/sp/800/61/r2/final>

Legal text. General Data Protection Regulation (GDPR). (2024, April 22). <https://gdpr-info.eu/>

Canada, C. S. E. (2024, April 18). Ransomware: How to prevent and recover (ITSAP.00.099). Canadian Centre for Cyber Security. <https://www.cyber.gc.ca/en/guidance/ransomware-how-prevent-and-recover-itsap00099#protect>

Computer Security Incident Handling Guide. (n.d.-a). <https://nvlpubs.nist.gov/nistpubs/specialpublications/nist.sp.800-61r2.pdf>

Guide to malware incident prevention and handling for ... (n.d.-b). <https://nvlpubs.nist.gov/nistpubs/specialpublications/nist.sp.800-83r1.pdf>

Isolation of information system components - CSF tools. CSF Tools - The Cybersecurity Framework for Humans. (2021, March 5). <https://csf.tools/reference/nist-sp-800-53/r4/sc/sc-7/sc-7-21/>

Ransomware incident response playbook template from official Microsoft Download Center. Microsoft Store - Download Center. (n.d.). <https://www.microsoft.com/en-us/download/details.aspx?id=105181>

Ransomware playbook | cyberalberta. (n.d.-c). <https://cyberalberta.ca/system/files/ransomware-playbook.pdf>

Souppaya, M., & Scarfone, K. (2022, April 6). Guide to enterprise patch management planning: Preventive maintenance for technology. CSRC. <https://csrc.nist.gov/pubs/sp/800/40/r4/final>

