Ransomware Attack Response Checklist

| STEP 1: D | Disconnect everything |
|-----------|---|
| Ţ | ☐ Unplug the computer from the network via the Ethernet cable |
| _ | ☐ Turn off any wireless functionality: Wi-Fi, Bluetooth, NFC |
| Ţ | ☐ Disconnect all external storage: memory sticks, attached |
| | phones/cameras, external hard drives, USB drives |
| Ç | Do not turn the computer off. The message on the screen may be |
| | required to determine the ransomware type |
| Ç | ☐ Report the ransomware incident by completing the Google Form at |
| | https://docs.google.com/forms/d/e/1FAIpQLSdz5Pvxh2acLR4 Zpq7OHeIa2WK |
| | FLsrNqjTefJMNxJbXAWVwA/viewform?usp=sf_link |
| CTED 2. F | Notermine the scene of the infection and shock the following for |
| | Determine the scope of the infection and check the following for |
| _ | Encryption from a known good, uninfected computer |
| | ☐ Mapped or shared drives |
| | ☐ Mapped or shared folders from other computers |
| | ☐ Network storage devices of any kind |
| | ■ External Hard Drives |
| Ţ | ☐ USB storage devices of any kind (USB sticks, memory sticks, attached |
| | phones/cameras) |
| Ç | ☐ Cloud-based storage: DropBox, Google Drive, OneDrive etc. |
| STEP 3: D | Determine the ransomware strain |
| | ■ What strain or type of ransomware? For example: CryptoWall, Teslacrypt, |
| | etc. |
| | https://labs.bitdefender.com/2017/09/bitdefender-ransomware-rec |
| | ognition-tool/ |
| | https://id-ransomware.malwarehunterteam.com/ |
| Ţ | ☐ Look for available decryptors |
| | https://labs.bitdefender.com/2017/09/bitdefender-ransomware-rec |
| | ognition-tool/ |
| | https://www.nomoreransom.org/ |
| | https://www.nomoreransom.org/en/decryption-tools.html |
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STEP 4: Determine Response

Now that you know the scope of your encrypted files and the ransomware strain you are dealing with, you can make a more informed decision about what to do next.

Response 1: Restore Your Files From Backup ■ Locate your backups ☐ Ensure all the files you need are there ☐ Verify integrity of backups (i.e., media not reading or corrupted files) ☐ Check for Shadow Copies if possible (may not be an option on newer ransomware) ☐ Check for any previous versions of files that may be stored on cloud storage, e.g., DropBox, Google Drive, OneDrive A good practice is to back up the encrypted files in case a decryptor becomes available ☐ Rebuild the system from known good sources. Do not trust antivirus programs to completely remove all malware from a system. Install all patches to avoid reinfection from network-transmitted malware ☐ Restore your files from backups ☐ All credentials stored anywhere on the local network (including those saved inside Web browsers and password managers) could be compromised and need to be changed ☐ Many ransomware cases are the result of phishing. Look for phishing messages and corrupt downloads and permanently delete to avoid reinfection Report the ransomware incident by completing the Google Form at https://docs.google.com/forms/d/e/1FAlpQLSdz5Pvxh2acLR4 Zpg7OHela2WK FLsrNqjTefJMNxJbXAWVwA/viewform?usp=sf_link Response 2: Try to Decrypt ☐ If you determined the strain and version of the ransomware, find out if there is a decryptor available A good practice is to back up the encrypted files in case the decryptor doesn't work Continue steps... ☐ Attach any storage media that contains encrypted files (hard drives, USB sticks, etc.) Decrypt files

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| | Backup the newly decrypted files for reloading |
|-------|--|
| | Rebuild the system from known good sources. Do not trust antivirus programs to completely remove all malware from a system. Install all |
| | patches to avoid reinfection from network-transmitted malware |
| | Many ransomware cases are the result of phishing. Look for phishing messages and corrupt downloads and permanently delete them to avoid reinfection |
| | All credentials stored anywhere on the local network (including those saved inside Web browsers and password managers) could be compromised and need to be changed |
| • | Report the ransomware incident by completing the Google Form at https://docs.google.com/forms/d/e/1FAlpQLSdz5Pvxh2acLR4 Zpq7OHela2WK FLsrNqjTefJMNxJbXAWVwA/viewform?usp=sf link |
| Respo | onse 3: Do nothing and lose files |
| | Back up the encrypted files in case a decryptor becomes available |
| | Rebuild the system from known good sources. Do not trust antivirus programs to completely remove all malware from a system. Install all |
| | patches to avoid reinfection from network-transmitted malware |
| | Many ransomware cases are the result of phishing. Look for phishing messages and corrupt downloads and permanently delete them to avoid reinfection. |
| | All credentials stored anywhere on the local network (including those saved inside Web browsers and password managers) could be compromised and need to be changed. |
| | Report the ransomware incident by completing the Google Form at |
| _ | https://docs.google.com/forms/d/e/1FAIpQLSdz5Pvxh2acLR4 Zpq7OHeIa2WK |
| | FLsrNqjTefJMNxJbXAWVwA/viewform?usp=sf_link |
| Resno | onse 4: Negotiate and/or Pay the Ransom |
| | This is <i>not recommended</i> and if considering this option, it is imperative |
| | to consult with the UCSB CISO for proper guidance. After consultation, if |
| | you choose to proceed, follow these steps: |
| | Back up the encrypted files in case the decryptor provided by the |
| | criminals doesn't work |
| | Decrypt files as instructed |
| | Back up all files |

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| Rebuild the system from known good sources. Do not trust antivirus |
|---|
| programs to completely remove all malware from a system. Install all |
| patches to avoid reinfection from network-transmitted malware |
| Restore your files from your backup |
| All credentials stored anywhere on the local network (including those |
| saved inside Web browsers and password managers) could be |
| compromised and need to be changed |
| Many ransomware cases are the result of phishing. Look for phishing |
| messages and corrupt downloads and permanently delete them to avoid |
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