



A Guide for Attorneys

Protecting You & Your Family from Cyber Threats

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Attorneys face a special set of risks. Cyber criminals recognize that you handle your clients' most confidential information and that you frequently work from home at night and on weekends. They also understand that your reputation is vital to your career and that it is easy find a great deal of information about you and your family online.

Their goal is to steal confidential information, you and your children's identities, and your financial assets. They also want to use your personal devices to breach your firm's cyber protections and know when it would be optimal to rob your home.

The good news is that protecting you and your family from cyber risks is not very complicated. However, the process includes several time-consuming steps that need to be updated regularly and consistently. This document provides a step-by-step process on what you need to do. It shows what technology you will need and how to use it, along with a series of commonsense steps to create a personal digital security structure. It also describes in detail what you will need to do to manage your ongoing personal cyber risks.

It is important to remember that at some point everyone will get hacked and/or have a portion of their identity stolen, regardless of what they do. Cybercriminals have immense resources and are backed by nation-states such as Russia, Iran, China, and North Korea.

The objective in taking these measures is to compartmentalize your information and make yourself a much less attractive target for cybercriminals. This, in turn, will reduce both the frequency of your adverse online events and, more importantly, the damage that they create.

Creating a Personal Digital Security Structure

Necessary technology

Three types of widely available technology are needed to create a personal digital security structure:

(i) Password manager

A password manager is encrypted software that stores passwords for each of your online accounts.

(ii) Virtual private network (VPN)

A virtual private network or "VPN" is software that encrypts your online traffic. It both prevents others from seeing what you are doing on your device and websites from identifying and tracking you.

(iii) Private email

A private email is different than Outlook, Gmail, AOL, etc. because (as its name implies) it is not automatically read and mined for data. However, it does not replace your existing, daily-use emails. Rather, it is used to provide materially greater cybersecurity (vs. using text messages to a smart phone) when using the double authentication feature that certain online accounts offer.

Numerous companies offer versions of each of these three technologies, and many excel at protecting you. However, it is important to carefully diligence them because some of these companies are backed by China, Iran or Russia (i.e., where most cybercriminal organizations are based.) There are also others (in particular, low cost or free ones) that you want to avoid because they collect and sell your information.

Seven steps to set up your personal digital security structure

Once you have the necessary technology, there are seven steps in setting up your personal digital security structure:

(i) Install a VPN, password manager and private email on each device.

Each of these technologies should be installed on every smart phone, laptop and desktop computer and tablet. This is relatively easy and take only a few minutes for each device.

(ii) Populate password manager with online accounts and resetting their passwords.

Every online account should be added to the password manager and their passwords should be reset using unique, randomly generated 15 to 20 alphanumeric character passwords. Most password managers include a feature than allow you to generate these kinds of passwords.

Certainly, the time involved in completing this step depends upon the number of online accounts. However, for a typical family this should take about twenty to twenty-five hours to complete.

(iii) Engage privacy settings on online accounts.

Doing this is essential to guarding your digital privacy, which protects you and your family from both identity theft and online predators. Most online accounts have privacy settings that enable users to opt out of their data collection efforts and also limit who else can access your account information.

It takes most people about forty hours to complete this process. Because collecting and selling user information is the core business activity of these companies, they intentionally make it burdensome to do this. It typically involves navigating a maze of multiple web pages to determine which settings to turn on for each account.

(iv) Engage double authentication settings on online accounts.

Many online accounts have an additional layer of security which, if engaged, requires a user to provide two forms of authentication to log in. Taking this step is essential to reducing the likelihood of the account being breached. Although some sites require that a mobile device be used when providing a second form of authentication, it is preferable whenever possible to instead use a private email because cyber criminals can easily “spoof” or hijack mobile phones.

Completing this step is likewise dependent upon the number of accounts and, which of those offer a double authentication security feature. However, in our experience it typically takes ten hours.

(v) Engage privacy and security settings on devices.

Several privacy and security settings should be engaged on each device. As part of this, it is important to turn on the ability to wipe a device remotely should it be lost and to activate the necessary settings to prevent apps on the device from gathering and selling your information. Likewise, it is essential to engage the necessary settings to prevent the device and third-party software from automatically copying and storing passwords and to prevent apps from turning on the device's microphone and camera without your permission.

The amount of time involved in this process is dependent upon the number and types of devices and how familiar one is with the settings. In our experience, completing this for a family that has six devices will take about five hours.

(vi) Engage the privacy and security settings on Web browsers and search engines.

When you activate your device privacy and security settings, it is also important to engage the numerous privacy settings on your Web browsers and search engines. Unless you engage these settings, browsers and search engines will track your online activity and gather large amounts of personal information that will be sold to third parties.

This process typically takes about three to five hours to figure out and complete.

(vii) Ensure each device has up-to-date anti-virus software.

At some point, all devices become infected with malware. Ensuring that each device has current anti-virus software is analogous to keeping one's vaccinations current.

Don't Waste Your Money on Online Identity Protection Services

Many companies offer identity protection services which purport to protect families from cyber risks. However, it is important to understand what they do and why it provides very little protection.

More specifically, these services are analogous to backward looking radar – they do little to nothing to prevent you from being hacked or having your identity stolen. Instead, they just alert you when it has happened. Their services also largely ignore cyberprivacy, which is critical to protecting your family's physical safety.

Many people buy them because they include either insurance or “guarantees” to reimburse up to \$1 million of costs in the event of hacking or identity theft. However, the terms of these agreements often make collecting on them very challenging.

For example, there is typically an exclusion of liability for the insurer in the event of simple negligence by the user, a very low legal threshold to prove. Some even limit the amount of their reimbursement for attorneys to as little as \$120 per hour and \$80 per hour for accountants.

They also are often structured as umbrella policies – i.e., one must first sue and collect from everyone else involved, and only then try to collect the difference from the insurer. The costs of this additional layer of litigation are potentially much greater than any amounts that the client might ultimately recover from the insurer.

Three Part Process to Manage Ongoing Cyber Risks

Creating a personal digital security structure is only the first step. Protecting you and your family also requires an ongoing process for managing your cyber risks over time.

This process has three parts:

1. Detecting and quickly responding when you are hacked and/or have your identity stolen,
2. Systematically updating your protection, and
3. Avoiding making yourself an attractive target for cybercriminals.

Three Steps for Detecting and Quickly Responding to Breaches and Identity Theft

(i) Subscribe to a Dark Web monitoring service.

The Dark Web is the part of the Internet where stolen information is sold. Several companies have the special technology required to access the Dark Web and many offer subscription services to alert you if any of your information is for sale.

(ii) Retrieve and review annually credit reports for your entire family.

Reviewing your credit reports annually is the best way to detect potential identity theft. Each of the three largest credit monitoring bureaus are required to provide free copies. Any abnormalities that appear on them often indicate that someone has stolen your identity. It is also important to check annually to see if there are credit reports for your underage children. If one exists, it often means that someone has stolen their identity.

(iii) Be prepared to quickly address stolen information or identity theft.

Critical to minimizing the damage resulting from either a breach or stolen identity is quickly taking steps to mitigate the problem once it is detected. The steps may be as simple as changing a single password or as complicated as having to make filings with multiple governmental agencies, companies, credit bureaus and law enforcement organizations. In certain circumstances, it might also require freezing or limiting credit and transferring assets to new accounts.

Three Aspects to Systematically Updating Your Protection

(i) Review your digital footprint at least annually.

Everyone should review annually what they are doing online, their devices, and the software they are using to determine what elements of their digital security structure need to be updated. This includes the apps, online accounts, devices, and other technology they have added as well as those they no longer need.

(ii) Update your protection annually.

Unless all aspects of a cyber structure are kept current, the entire structure quickly becomes ineffective. Online accounts regularly change privacy and security settings and need to be updated. Privacy and security settings for new devices, new online accounts, and apps also need to be enabled.

(iii) Keep your family informed and educated about new cyber threats.

No different than any other risk management program, education plays a key role in managing cyber risk. Parents and children need to be informed and educated about ongoing and recently identified threats and risks.

Six Ways to Avoid Making Yourself an Attractive Target for Cybercriminals

(i) Minimize your smart home technology.

Houses with smart home technology (i.e., digital light bulbs, security cameras, smart coffee pots, smart door locks, etc.) are the preferred targets for cyber criminals. Why? Because it is often very easy to hack. One need only breach a single device to compromise the entire network, and everything connected to it. Thus, it is important to limit your smart home technology to only what is essential and to secure each device with a unique and sophisticated password.

(ii) Never use personal devices or personal email for work

While most law firms have explicit policies about not using one's personal devices and email accounts for work matters, not everyone strictly adheres to these rules. Additionally, most personal devices and email accounts typically have a fraction of the cyber security protections of work devices and email accounts.

Consequently, cybercriminals regularly target the personal devices and email accounts of attorneys. They hope to find either valuable confidential information to sell (or use to blackmail the attorney, the law firm and/or the client) or information that will allow them to breach the firm's cyber protections.

(iii) Never leave your device unattended, even for only seconds.

It takes a criminal only seconds to download a "Trojan" (i.e., an app with "malware" – i.e., software that gets around your device's protections and steals your information) onto an unattended device. Such occurrences are common at expensive resorts as well as when one is overseas. In fact, many Fortune 50 companies are so concerned about this risk that they require board members to use burner phones whenever they are out of the country.

(iv) Always wipe lost and retired devices.

Your devices store immense amounts of your information. Wiping lost or retired device memory (including computers, smart phones, tablets, home assistants and leased autos) is critical to protecting your privacy.

(v) Use USB blockers with rental cars and charging stations.

Whenever a device is plugged into a public charging station or a rental car, information is downloaded almost automatically from the device. In certain circumstances, malware is also uploaded. Using a USB blocker (a small, inexpensive device that you attach to your power cord) prevents this from happening.

(vi) Turn off Bluetooth when you aren't using it.

Bluetooth allows anyone proximate to you to access information on your device. For example, you may be working on a laptop during an airplane flight. If someone is proximate (i.e., within five or six rows) they can see virtually into your device unless you have turned off your Bluetooth.