

# How to create a cyber secure home

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**SANS INSTITUTE**

## Creating a Cyber Secure Home

**1 SECURING YOURSELF**  
 Cyber attackers have learned that the easiest way to get something is to simply ask for it. As such, common sense is your best defense. If a message or phone call seems odd, suspicious or too good to be true, it may be an attack. Here are some examples:  
 Phishing emails are emails designed to fool you into opening an infected attachment or clicking on a malicious link. These emails can be very convincing. They may appear to come from a friend or organization you know. Sometimes cyber attackers even use details from your social media accounts to craft customized phishing attacks.  
 Someone calls you pretending to be Microsoft tech support. They claim that your computer is infected, when they are really just cyber criminals that want access to your computer or want you to buy their fake antivirus software.

**2 SECURING YOUR HOME NETWORK**  
 Your Wi-Fi router (also called a Wi-Fi Access Point) is a physical device that controls who can connect to your wireless network at home.  
 Always change the default admin password on your Wi-Fi router to a strong password only you know.  
 Configure your Wi-Fi network so that if anyone wants to join it, they have to use a password. In addition, always configure your wireless network to use the latest encryption, which is currently WPA2.  
 Be aware of all the devices connected to your home network, including baby monitors, gaming consoles, TVs or perhaps even your car.

**3 SECURING YOUR COMPUTERS / DEVICES**  
 Here are some steps to protect any device connected to your home network:  
 Ensure all devices are protected by a strong PIN or passcode and always running the latest version of their software. Whenever possible, enable automatic updating.  
 If possible, have two computers at home, one for parents and one for kids. If you are sharing a computer, make sure you have separate accounts for everyone and that kids do not have privileged access.  
 Computers should have a firewall and antivirus installed, enabled and running the latest version.  
 Before disposing of computers or mobile devices, be sure they are wiped of any personal information. For mobile devices, this can be done by selecting the option for a secure reset of the device.

**4 SECURING YOUR ACCOUNTS / PASSWORDS**  
 You most likely have a tremendous number of accounts online and on your devices and computers. Here are some key steps to protecting them:  
 Always use long passwords that are hard to guess. Use passphrases when possible. These are passwords that have multiple words, such as "Where Is My Coffee?"  
 Use a different password for each of your accounts and devices. Can't remember all of your strong passwords? We recommend you use a password manager to securely store them. This is a computer program that securely stores all of your passwords in an encrypted vault.  
 Use two-step verification whenever possible. Two-step verification is when you need a password and something else to log in to your account, such as a code sent to your smartphone.  
 On social media sites, post only what you want the public to see. Assume anything you post will eventually be seen by your parents or boss.

**5 WHAT TO DO WHEN HACKED**  
 No matter how secure you are, sooner or later, you may be hacked.  
 Create regular backups of all your personal information. If your computer or mobile device is hacked, the only way you can recover all of your personal information may be from backups.  
 If one of your online accounts has been hacked, immediately log in and change the password to a strong, unique password. If you no longer have access, contact the company.  
 Monitor your credit cards. If you see any charges you do not recognize, call the credit card company right away.

**ABOUT THE POSTER**  
 This poster was developed as a community project by the following security professionals:  
 Lori Rosenberg, Wiley • Tom Doolley, Charles Schwab • Rhonda Kell, Delphic Corporation • Jonathan Mayes, GM Financial • Karen McCovey, University of Virginia • Michele D'Amico, JCU/UTS • Kirby Banks, Saint Louis University • Sonja Dunlap, USoft Development, Inc. • Mark Markos, Charles Schwab • Roberto Rodriguez, MySherya • Antonio Merida, Poste Italiane • Barbara Filipek, iWorkin • Vamsi Anantapur • James McQuiggin, Central Florida ESA • Karl Thomas, Tower International • Tim Harwood, HS and TC • Denise Friedrich • Christopher Sorenson

*"As technology becomes more important in our personal lives, so does securing it. Here are some fundamental steps you should always take to help protect yourself and your family."*  
 Lori Rosenberg - Intuit

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Credit: Ohio University

As technology becomes more important in our personal lives, so does securing it. Here are some fundamental steps you should always take to help protect yourself and your family.

## Securing yourself

Cyber attackers have learned that the easiest way to get something is to simply ask for it. As such, common sense is your best defense. If a message or phone call seems odd, suspicious, or too good to be true, it may be an attack.

## Securing your home network

Your WiFi router is a physical device that controls who can connect to your wireless [network](#) at home. Follow these steps to secure it:

- Always change the default admin password on your router to a strong password only you know.
- Configure your network so that if anyone wants to join it, they have to use a password. In addition, always configure your network to use the latest encryption, which is currently WPA2.
- Be aware of all the devices connected to your network, including baby monitors, gaming consoles, TVs, or perhaps even your car.

## Securing your computers and devices

- Protect your devices are protected with a strong PIN or passcode and are running the latest version of their software.
- Enable automatic updates whenever possible.
- If you can, have two computers at home, one for parents and one for kids. If sharing a [computer](#), make sure everyone has separate accounts and that kids do not have privileged access.
- Use a firewall and anti-virus on your computers.
- Before disposing of a device, make sure it has been wiped/factory reset.

## Securing your accounts/passwords

- Always use long passwords that are hard to guess. Use passphrases where possible - passwords with multiple words, like "Where's my coffee?"
- Use unique [passwords](#) for each [account](#) and device. Can't remember that many? Use a password manager app to keep track of them for you.
- Use two-step or multi-factor authentication whenever possible. This adds a personalized step to logging in, like receiving a text or phone call on your mobile phone.
- On social media, post only what you want the public to see. Assume anything you post will eventually be seen by your parents or boss.

## What to do when hacked

No matter how secure you are, sooner or later, you may be hacked:

- Create regular backups of all your personal data. If a [device](#) gets hacked, the only way to recover its data may be from a backup.
- If one of your online accounts has been hacked, immediately log in and change its password to a strong, unique password. If you no longer have access, contact the company.
- Monitor your credit cards. If you see charges you do not recognize, call the company right away.

Provided by Ohio University

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