

Networking Safety

Presented by Joe Chappell -
Connected HHI

An elderly couple is sitting at a table in a bright, modern setting. The woman, on the left, has long white hair and is wearing glasses and a light blue long-sleeved top. She is smiling and looking towards the man. The man, on the right, has short grey hair and a beard, and is wearing a blue t-shirt. He is holding a pencil and looking at a small notebook or tablet. In front of them is a white laptop on the table. The background shows a large window with a view of a city or outdoor area.

The Future is Now

Complimentary
Technology Lecture Series

INCREASE YOUR TECHNOLOGY KNOWLEDGE

Please join us for a complimentary lecture series presented by the Hilton Head Island Computer Club and Hargray Communications. RSVPs are required for each presentation.

Visit www.hhicc.org/hargray
to RSVP

Each lecture will be at the USCB Hospitality Campus
located at One Sand Shark Drive, Hilton Head Island

March 2nd at 2pm:
Managing Your Home Network

April 6 at 2pm:
Identity Theft & Senior Fraud

May 4th at 2pm:
Network Safety

May 18th at 2pm:
Streaming – An Intro to the Possibilities

The Hilton Head Island Computer Club Resource Center provides in person help for members regarding PCs, Macs, tablets, and smartphone issues, as well as providing shared use PCs and Macs. Training is also provided.

Why this class?

Most of us live a “connected life”

Few of us really understand what is happening while we are connected to the internet

Understanding risks allows us to make informed and conscious decisions about our actions

There are “simple” steps that we can take to protect ourselves while we are connected

Presentation Flow



PC AND MAC
SECURITY PRACTICES



BROWSING SAFELY



HOME NETWORK
SECURITY



TRAVEL SAFETY



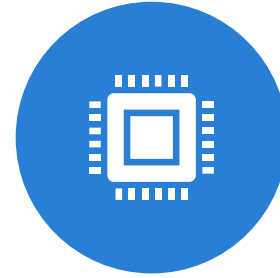
Q&A



*FULL PRESENTATION
AVAILABLE FOR
DOWNLOAD



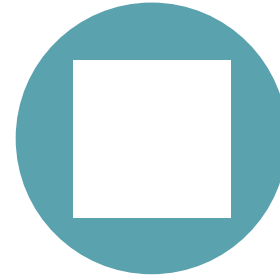
Password Access



Device, Operating System, and Program Updates



Ant-Virus / Security Programs



Laptop Considerations

PC and Mac Security

Password Access



Recommended to have a password and a timer to lock your screen after X minutes of inactivity



“Required for laptops and devices that travel with you



Easy to setup in Windows and on Macs

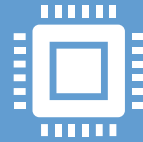


Don't use the same password for multiple accounts



Write it down or use a Password App like LastPass or Dashlane or Keychain on Mac

Operating System, Application, and Device Updates



Protect yourself by getting the latest capabilities and security patches for your software and hardware



“Software vulnerabilities” are holes in security that can be used by bad guys to do bad things. Updates are the way that these holes are corrected in existing software.



Even when you ask for automatic updates, you may need to force updates from time to time.

Use an AntiVirus / Security Product

Protects against viruses and malware

Can protect against unsafe websites and links

Requires regular updates and system scans

Free versions have limited capabilities and are not recommended

Norton, Avast, and McAfee are recommended, No Kaspersky

Block downloads of Executables

Additional Laptop Considerations



Use a password to lock access to your system



Do regular backups



Use drive encryption to protect the contents of your hard drive(s)

Browsing Safely

- ▶ Check Website Names
- ▶ Confirm that the website is secure
- ▶ Don't click on links without knowing where it will take you
- ▶ Behave as though everyone knows what websites you visit
- ▶ Don't click on links without knowing where it will take you
- ▶ Don't use the same password on multiple sites
- ▶ **Many websites don't control the ads and embedded links that are on their webpages**



UNSAFE!!!

The screenshot shows a browser window with three tabs: 'UniFi Network Portal', 'Schubert-Office', and 'Amazon Business'. The address bar displays 'Not secure | amazon.com'. The Amazon Business header includes the logo, a search bar with the placeholder 'Enter keyword or product number', and a location pin for 'Hilton He... 29926'. Navigation links include 'Departments', 'Buy Again', 'Quantity Discounts', 'Today's Deals', 'Business Plus', 'Add People', and 'Help'. The main content area features a promotional banner for 'Working from home' with the text 'Supplies to help you stay connected' and the Amazon Business logo with the tagline 'Reshape buying'. A red office chair icon is visible on the right side of the banner. At the bottom, a dark blue bar contains five statistics: 'Awaiting delivery 3 orders', 'Next delivery May 7', 'Spent in May \$19.18', 'Top expense in May \$19.18 in PC Acce...', and 'Share business benefits Add people'.

Awaiting delivery 3 orders	Next delivery May 7	Spent in May \$19.18	Top expense in May \$19.18 in PC Acce...	Share business benefits Add people
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The Risks of Clicking on Unknown Links



Browser links often lead to unintended websites or downloads of malware



Email links are just as dangerous



Don't click before you know for sure - if you have any question - ignore or delete!

Home Network Security



Use a “good” password for your WiFi



Create a Guest Network” for your guests and anything that doesn’t need access to other devices on your network



Make sure that your modem and router are updated

Travel Safely



Password Protect your devices



Only use Safe WiFi Connections



Safe - US Cell Networks



Safe - Virtual Private Networks (VPNs)



Safe - Friend and Family*



Unsafe - Free Hotspots



Unsafe -Hotel and other Public WiFi



Unsafe - Some foreign Cell networks



Virtual Private Networks

A VPN creates an encrypted “**tunnel**” over the internet to protect the data traveling between you and your Internet destination — anything from your online banking account to a video sharing website to a search engine.

This tunnel is created by first **authenticating** your client — a computer, smartphone or tablet — with a VPN server. The server then uses one of several **encryption protocols** to make sure that no one can monitor the information traveling between you and your online destination.

- ▶ Here you should remember that before being sent and received over the internet, any data needs to first be split into packets. To ensure each data packet stays secure, a VPN service wraps it in an outer packet, which is then encrypted through a process called **encapsulation**. This exterior packet keeps the data secure during the transfer, and it is the core element of the VPN tunnel. When the data arrives at the VPN server, the outer packet is removed to access the data within, which requires a **decryption** process.

- ▶ So basically, accessing the internet through a VPN tunnel is like putting a package into a box and then sending it to someone. Nobody can see what's inside the box until it's opened, or in this case, decrypted.
- ▶ Another thing to remember: When you're using a VPN, your packets reach the internet with **another IP address**, supplied by your VPN provider. So if you keep connecting to different VPN servers, each time the internet will see you as a different person. If you connect to a server in another country, you will appear to be browsing from that country.

The Best VPN Services for 2020

A VPN, or virtual private network, is one of the smartest ways to protect your online privacy and maintain your data security. We've tested scores of them, and these are the best VPN services we've reviewed.



By [Max Eddy](#) Updated February 13, 2020



OUR 10 TOP PICKS

BEST FOR GENERAL USERS



NordVPN®



NordVPN

CHECK PRICE

NordVPN wraps a slick client around a strong collection of security features and an

BEST FOR POWER USERS



Private Internet Access VPN

CHECK PRICE

Private Internet Access offers a robust VPN service with an excellent new app interface

BEST FOR FIRST-TIME VPN USERS



TunnelBear VPN

CHECK PRICE

If you're tired of edgy security products, let the strong-but-cute bears of TunnelBear VPN

BEST FOR NETWORK TINKERERS



CyberGhost



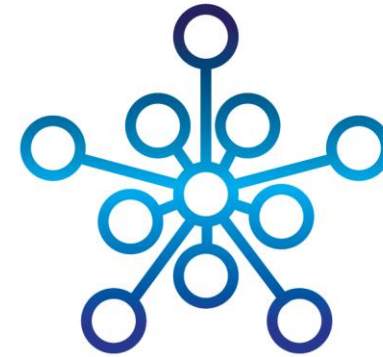
CyberGhost VPN

CHECK PRICE

CyberGhost offers an excellent VPN product with a strong stance on privacy, a robust

Q&A

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