

# **Information Technology**

## University of Florida

**IFAS** 



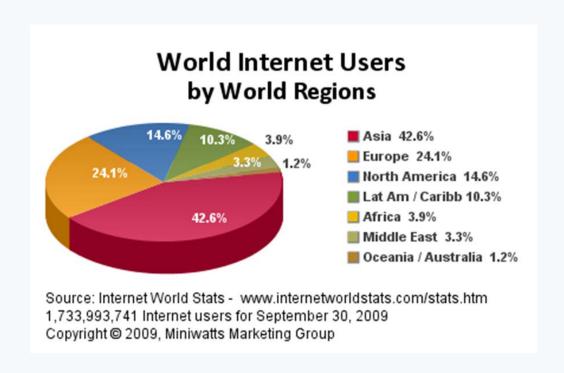
## About me

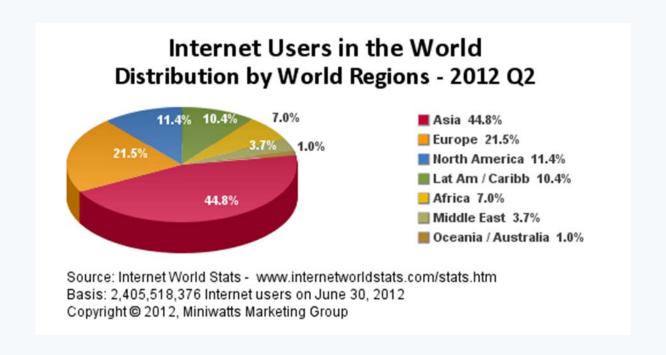
- Bill Black
- I got my first computer in 1986
- My first computer was a IBM pc at 4.77mhz 640K ram 10mb hard drive
- My degree is in Electrical Engineering with minor in Computer Science
- UF/IFAS IT South Central District

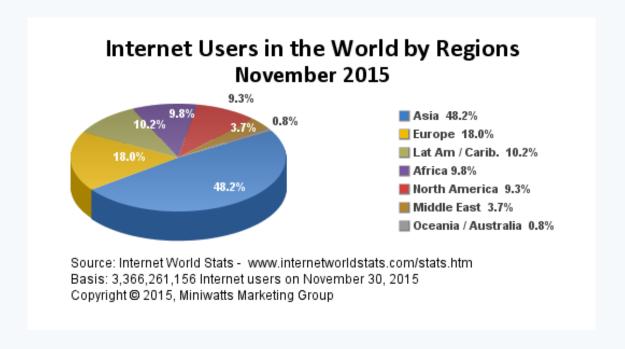
## World Wide Web Facts

- Began in the late 1960's. Primarily for the Military
- Evolved into the "INTERNET" in the 1990-92
- In 1997 320 Million Pages
- In 2006 5 to 6 billion pages
- In 2008 it is estimated at 29.7 billion pages
- In 2011 over 1 Trillion and counting !!!
- First Language English
- Second Language Chinese
- Third Language Spanish



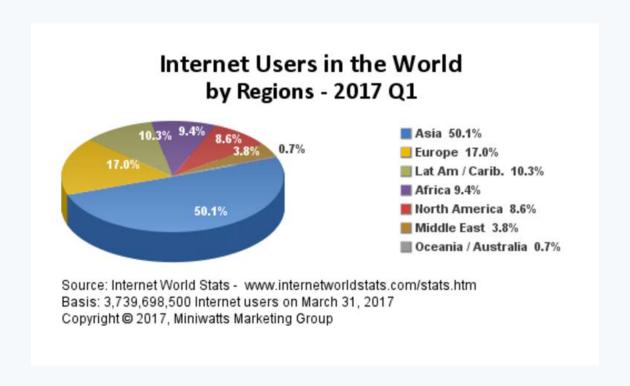






http://www.internetworldstats.com/stats.htm





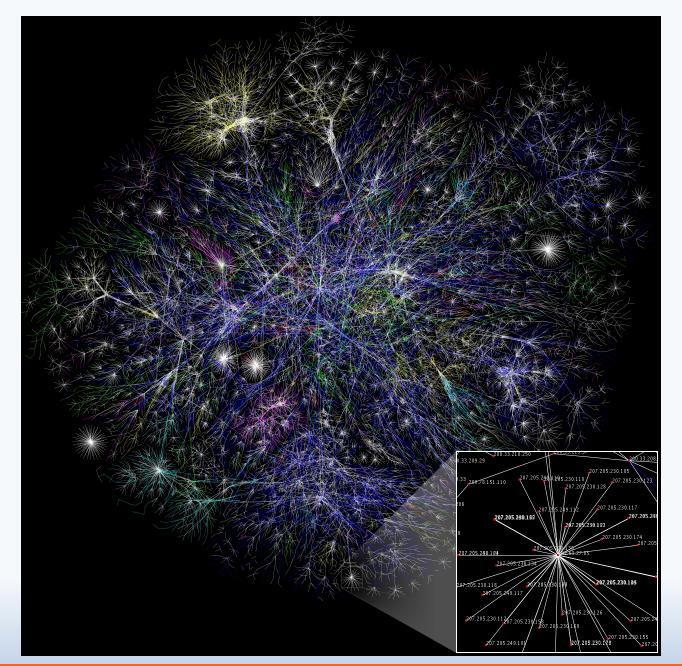
http://www.internetworldstats.com/stats.htm



## Common User Questions

- Who Owns the Internet?
- No one actually owns the <u>Internet</u>.
- Many organizations, corporations, governments, schools, private citizens and service providers own small pieces.





### Devices that contain Web Browsers

- Personal Computers
- Apple/Mac's
- Cell Phone
- Smart Phone
- Embedded Devices











## **SEARCHING TIPS**



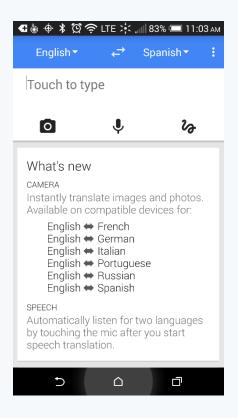
# Tips for searching in Google

- Explicit Phrase or Phrase Searching: Instead of just typing <u>Crape Myrtle</u> into the Google search box, you will likely be better off searching explicitly for the phrase. To do this, simply enclose the search phrase within double quotes.
- Example: "Crape Myrtle"
- Site Specific Search:
  Often, you want to search a specific website for content that matches a certain phrase. Simply use the "site:edu" modifier.
- Example: "Crape Myrtle" site:edu

# Tips for searching in Google

- Specific Document Types:
   If you're looking to find results that are of a specific type, you can use the modifier "filetype:". For example, you might want to find only PowerPoint presentations related to Crape Myrtle.
- Example: "Crape Myrtle" filetype:pptx
- Other common file types: docx, xlsx, txt, pdf, wmv, mp4, flv, mov
- Location of Term:
- You can search within certain location for a word.
- Example: inurl: , intitle: , intext:

# Google Translate App





## **UF Mobile Apps**

- m.ifas.ufl.edu It contains various important UF/IFAS links
- Http://ifas.ufl.edu/mobileapps.shtml



#### **Top 5 Cybercrime Vectors**

- The Browser
  - Chrome
  - Internet Explorer
- Your own Users
  - Family
  - Kids
  - Workers
- Industrial Control Systems
  - Printers
  - Routers
  - Credit card scanners
- Cars
  - USB
  - ODB II Ports
- Internet of Things









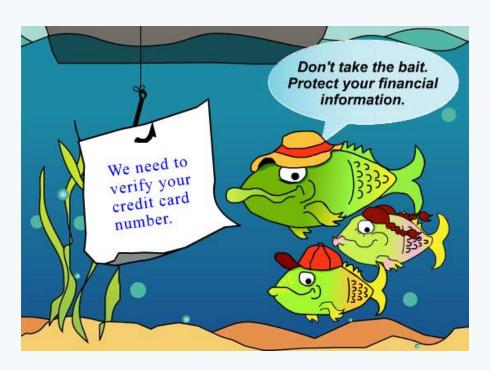
## The Threats



Malware Infections



- What is Phishing
- Phishing refers to the process of tricking recipients into sharing sensitive information with an unknown third party.
- All Phishing should be forwarded to abuse@ufl.edu



- What is Spam?
- Spam is unsolicited bulk email, the electronic equivalent of junk mail, that comes to your inbox.
- All Spam should be forwarded to <u>report-</u> <u>spam@ufl.edu</u>

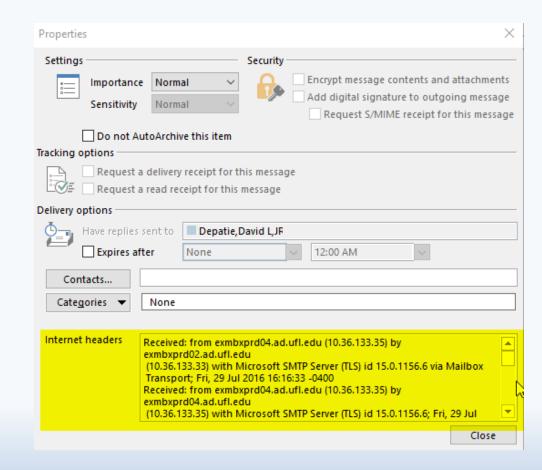


- All Ransomware should be forwarded to <u>abuse@ufl.edu</u>
- Ransomware is malicious software that infects a computer and then restricts a user's access to their documents until a financial ransom is paid.
- Please include message header with your email report





- Internet Header information
- Provides information for email admins
- Helps with better filtering



- All Spam should be forwarded to <u>report-spam@ufl.edu</u>
- All Phishing should be forwarded to abuse@ufl.edu
- Report legitimate emails routed to spam report-ham@ufl.edu
- Please include message header with your email report



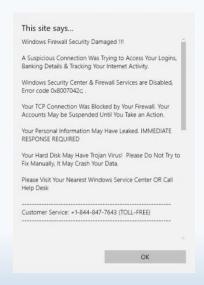
## Viruses and Bugs

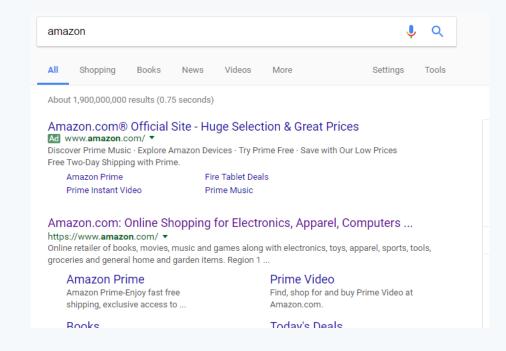
- Never follow unsolicited links
- Don't open untrusted attachments
- Don't click links in email if in doubt
- Never click on unsolicited popups



### Don't be scammed by bad links

- Beware of bad links
- Don't click on "AD "
- Don't call listed number
- Cntrl+Alt+Del to exit





### Don't be scammed by bad devices

Be careful of Skimmers for your Credit card and especially Debit cards. Look for weird differences in the ATM or Gas station.





#### Don't be scammed by bad Apps

Careful with downloading apps for Stores. If possible, go to the actual website of the merchant (ie Walmart.com) to download the app. There are fake apps on both Apple and Android market.





### Don't be scammed by bad phone call

New potential scam generated by a phone call

- They ask can you hear me
- You answer "yes "....but please don't
- Don't answer calls you don't know
- Don't answer ?'s from unknowns
- IRS, DMV, and Courts communicate via mail



#### Action needed:

#### Sign your agreement online!

Thank you for your recent purchase. We will process your order after you sign your agreement online.

#### Sign Agreement

Important things to do to avoid order delays or cancellation:

- . Click the button above and use your PIN to sign in and access your agreement.
- . Review the agreement and check the box shown to electronically sign.
- Complete these easy steps within 72 hours of order placement.

#### Order summary

Name: Guillermo Black

Order number:

To view complete details of your order and check its progress, enter your order number at sprint.com/myorder.

#### Items ordered:

Quantity	Item number	Item description	
1	190198072276	IPHONE 7 GOLD 128GB KIT	

Please save a copy of this email for your records.

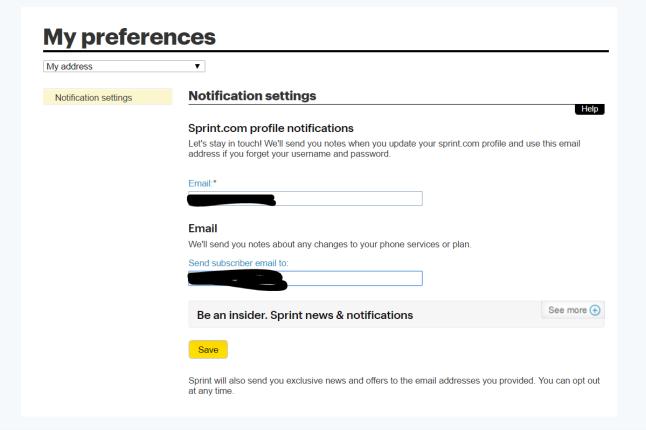
sprint.com | find a store

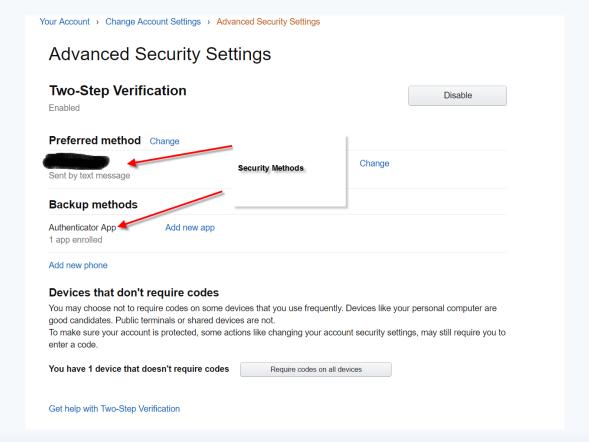


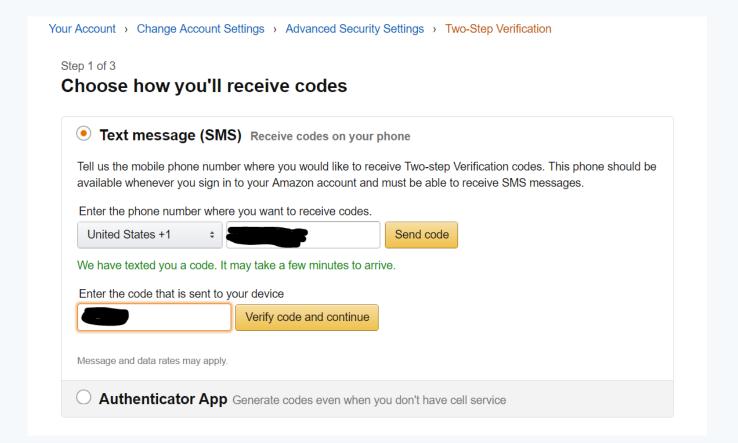


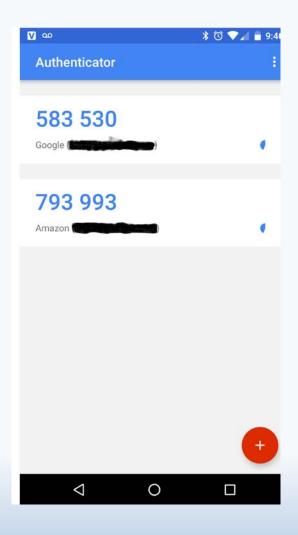








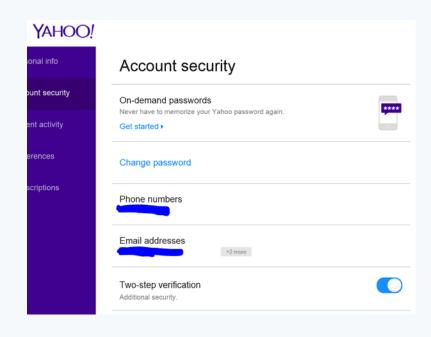




- Setup Notifications
- Use Two Step Process
- Use long passwords
- Change logins at some interval
- Don't forget to lock your phone !!!



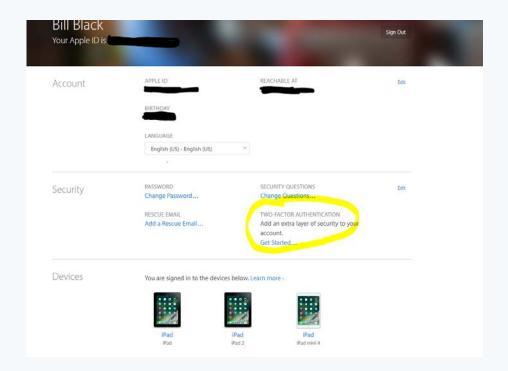
## Two step Verification



- Prevents access to account even if they know the password.
- Online accounts provide for two steps to verify account
  - You can either use an App
  - You can use a Text message
  - You can use an email
  - You can use a Phone call
- Secures the account online

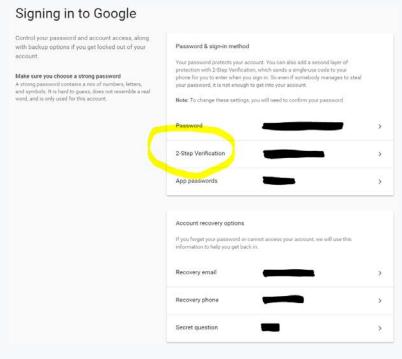
# Two step Verification

https://appleid.apple.com



# Two step Verification

https://myaccount.google.com



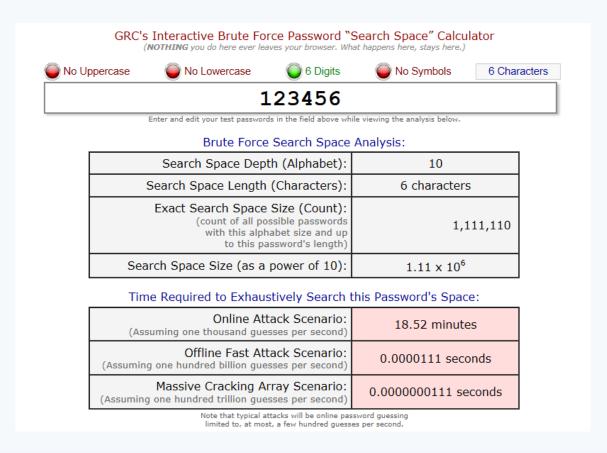
#### Internet Precautions.....

There was an analysis done on the Passwords from Sony Pictures PlayStation.

- 1. Most people chose plain text
- summer
- abc123
- 123456
- 2. The most common password was " sienfeld "
- 3. Most Passwords are 6 to 8 characters long
- 4. Most People reuse their passwords.
- 5. Most People did not use special characters: !



#### Internet Precautions.....



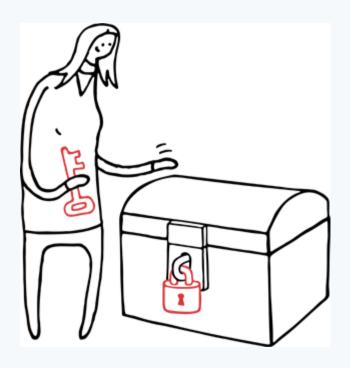
https://www.grc.com/haystack.htm



## Internet Precautions.....Recap

#### 5 Tips For Staying Safe On The Web

- 1. Choose Strong, Unique Passwords
- 2. Enable 2 Step Verification
- 3. Install all updates right away
- 4. Be wary of suspicious emails and offers
- 5. Regularly scan you computer with a trusted antivirus program



#### **IoT** devices

- Apple TV
- Dimmer Switch
- Wi-Fi Light
- Smart Plug
- Thermostat
- Chromecast
- Amazon Dash Button













#### **IoT** devices

- In 2017, 8.4 Billion devices
- China, North America,
   Western Europe contains 67%
   of devices
- Consumers are largest users
- Business is second in use
- Rise in breaches of the devices



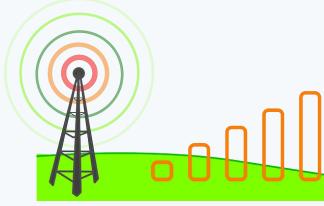
#### **IoT** devices

- Keep Firmware updated
  - Turn on auto-update
  - Keep track of patches
- Change default password
  - Change "admin"
  - Change "12345"
- Disable remote login
- Update your routers firmware and security settings
  - Use WPA and WPA2
  - Disable WPS
  - Make router's administration page not accessible from internet
- Secure your network with a firewall
  - Turn off <u>UPNP</u>



# What is your phone saying behind your back?

- Never leave WiFi on just because.....
- You WiFi can connect to a fake WiFi zone
- Your information on the phone could possibly be made public.

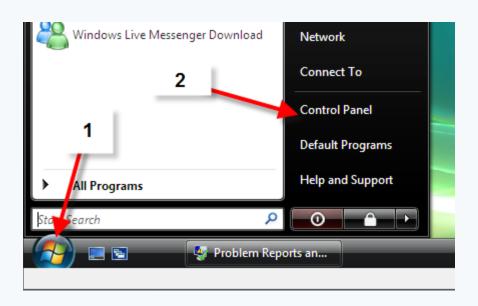


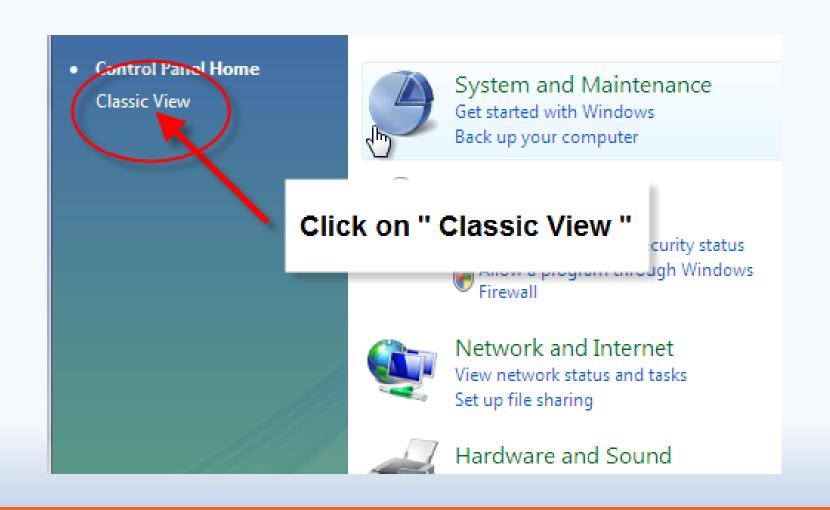
#### Common User Questions

#### What are User Accounts

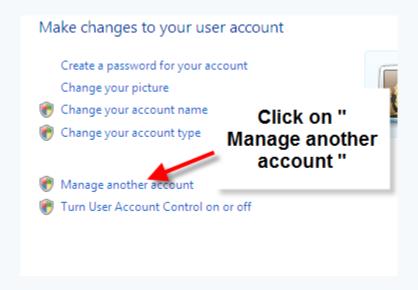
- A <u>user account</u> is a collection of information that tells Windows what files and folders you can access, make changes, and your personal preferences.
- Three (3) basic classes:
  - <u>Standard User</u> Use the computer but cannot make Global changes
  - Administrator Make <u>any</u> changes on the computer
  - <u>Guest</u>—Basic use of the computer— No Personalization of Computer

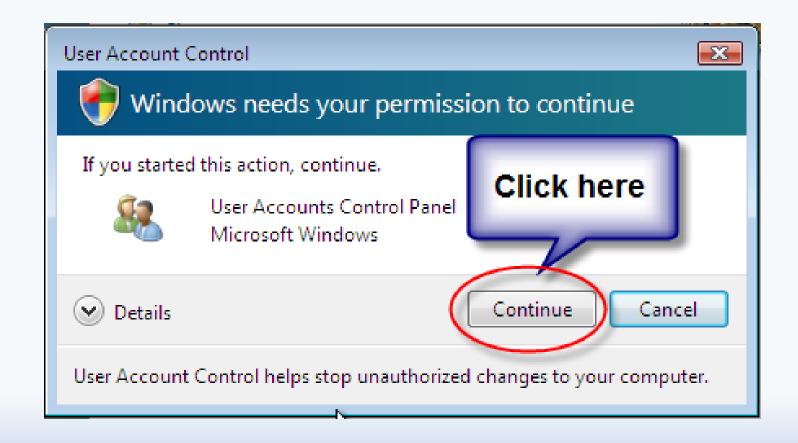


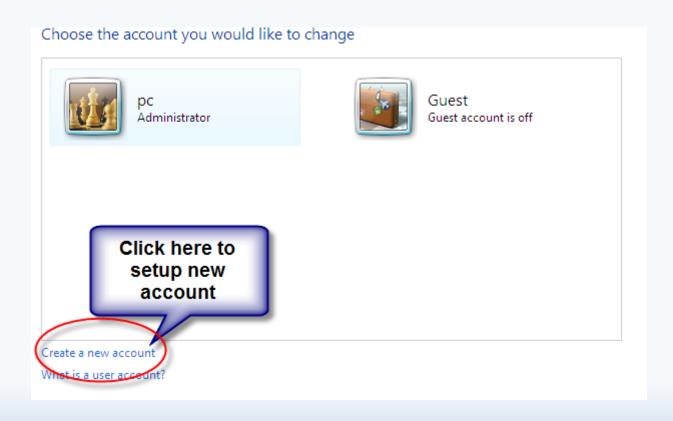


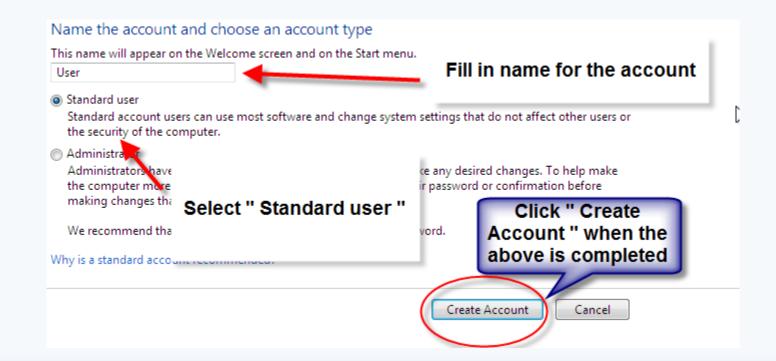


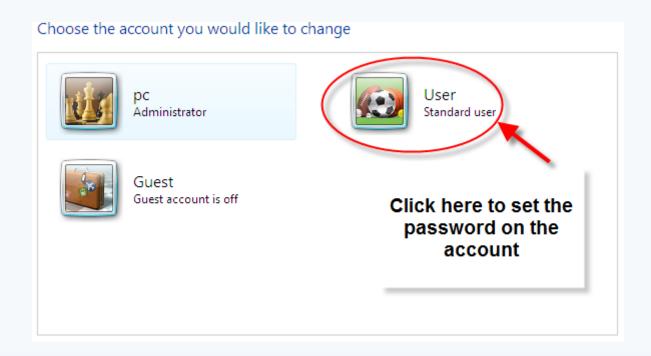




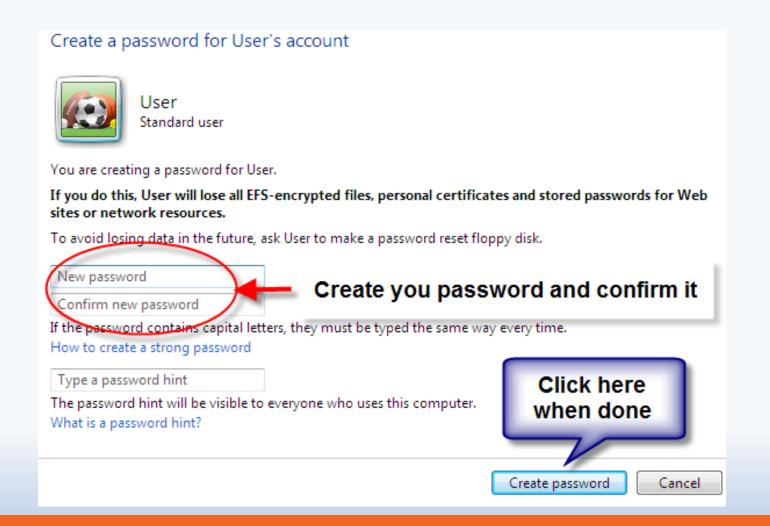












# Account setup completed

