

IT Resources

Contents

IT Jobs.....	1
The Instructor's Web Sites	1
CompTIA Study Materials	2
Security	2
Networking.....	2
Subnetting	3
Network Utilities.....	3
Wireless Utilities.....	4
Linux	4
Boot CD Resources	5
General IT	5
Anti-Malware Programs (The program is either free, or has a free edition)	5
IT Utilities	5
Backup and Imaging Programs	5
Sample Robocopy Script	6
Showing Non Present Devices in Device Manager	6

IT Jobs

- Cabelas.jobs
- <https://careerlink.com>
- Networks.nebraska.gov (State listing of jobs, search for Information Technology.)
- <http://www.rwmc.net/online-application> (Regional West Medical Center)

The Instructor's Web Sites

- Billthecomputerguy.com

- [WNCC Information Technology Program Facebook Page](#) (IT job listings and other tech news.)

CompTIA Study Materials

- [Professor Messer](#) (YouTube resource for CompTIA concepts.)

Security

- [10 Immutable Laws of Security](#) (By Microsoft)
- [Computer Security Resource Center](#) (by NIST)
- [CyberSeek](#) (Data about supply and demand in the cybersecurity job market.)
- [GHacks](#) (Keep up on the latest security enhancements.)
- [CyberCareers.gov](#)
- [How to Create a Strong Password](#)
- [Krebs on Security](#) (In depth security news and investigation.)
- [Microsoft Password Checker](#)
- [Overthewire.org](#) (Online security labs)
- [SANS Sample Security Policies](#)
- [SANS](#) (The security web site.)
- [Schneier on Security](#) (In depth security news and investigation.)
- [Troy Hunt Blog](#)
- [TryHackMe](#) (Hundreds of free labs)
- [whatismybrowser.com](#)

Networking

- [Cellphone Networks](#) (How Cellphone networks work.)
- [Cisco CCENT And CCNA Exam Training: The Routing Process, Ping, And Traceroute](#) (How routers work)
- [How SMTP Works](#)

- [Network Topologies from Novell](#) (Network topologies from Novell, including cell phone networks.)
- [Networking Primer from Novell](#)
- [The OSI Model's Seven Layers Defined and Functions Explained](#) (Microsoft Knowledgebase article about the OSI Model.)
- [youTube video on the OSI Model](#). (There are a lot of good videos on networking on youTube.)
- [TIA/EIA 568-B Series Structured Cabling Specification by Wikipedia](#) (Guidelines for installing network cable in commercial buildings.)
- [Warriors of the Net](#) (Excellent video describing the path information takes through the internet.)
- [Wikipedia OSI Model](#)

Subnetting

- [LearnToSubnet.com](#) (Part of a group of websites presenting free tutorials on TCP/IP, this one is specifically about subnetting)
- [Subnet Calculator](#)

Network Utilities

- [Input Director](#) (Control multiple computers from one computer)
- [Nagios](#) (Opensource network monitoring)
- [Network Monitor](#) (Free tool from Microsoft to allow capturing and protocol analysis of network traffic.)
- [Speedguide.net](#) (Good web site for optimizing your broadband connection. TCP/IP Analyzer and TCP/IP Optimizer are tools for optimizing your connection.)
- [Speedtest.net](#) (Test your internet speed.)
- [Top 20 Free Network Utilities](#)
- [Wireshark](#) (Free open source protocol capture and analyzer)

Wireless Utilities

- [13 Popular Wireless Hacking Tools](#)
- [Find Wi-Fi Passwords at the Command Line](#)
- [NetStumbler](#) (Free utility for scanning access points)
- [NetSurveyor](#) (802.11 (WiFi) network discovery tool that gathers information about nearby wireless access points in real time and displays it in useful ways.)
- [WiFi Infoview](#) (Free WiFi scanning utility)
- [Wigle.net](#) (See where the wireless access points are located in your area.)
- [Wikipedia article on various 802.11 flavors of WLAN's](#)
- [Wireless Hacking Tools](#)
- [Wireless Network Scanner](#)

Linux

- Linux.org: <http://www.linux.org>
- Linux Format Magazine: <http://www.linuxformat.co.uk>
- The Linux Kernel Archives: <http://www.kernel.org>
- The Linux Journal: <http://www.linuxjournal.com>
- Red Hat Linux Installation Guide: https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/6/html/Installation_Guide/index.html
- Getting Started with Fedora:
<https://wiki.duraspace.org/display/FEDORA38/Getting+Started+with+Fedora>
- Linux Command Cheat Sheets: <http://www.cyberciti.biz/tips/linux-unix-commands-cheat-sheets.html>
- How to Get Help with a Command from the Linux Terminal:
<http://www.howtogeek.com/108890/how-to-get-help-with-a-command-from-the-linux-terminal-8-tricks-for-beginners-pros-alike/>

Boot CD Resources

- [Hiren's Boot CD](#) (Includes disk, memory, and a Windows 10 GUI with diagnostic tools, boots to a GPT system)
- [How to download and burn an ISO to CD](#)
- [UltimateBootCD.com](#) (the Ultimate Boot CD contains disk diagnostic and other utilities)

General IT

- [How to Create an "Elevated Command Prompt Shortcut" in Windows](#)
- [iFixit.com](#) (IT Repair web site with directions to fix just about anything.)
- [PCPartPicker.com](#) (Helps you put together a custom system.)

Anti-Malware Programs (The program is either free, or has a free edition)

- [AdwCleaner](#) (Fast, free malware remover)
- [CCleaner](#) (Removes temporary files and other crud from a system)
- [MalwareBytes](#) (Removes spyware/adware)
- [Spybot Search and Destroy](#) (Removes spyware/adware)
- [SuperAntiSpyware](#) (Removes spyware/adware)
- [TDSSKiller](#) (Removes rootkits)

IT Utilities

- [Nirsoft](#) (A collection of free utilities)
- [PortableApps](#) (Create a USB drive with over 300 portable apps)

Backup and Imaging Programs

- [Clonezilla](#) (Linux based open source imaging tool)
- [Create Synchronicity](#) (Create Synchronicity is a powerful and lightweight open source backup and synchronization program, available in many languages.)

- [Macrium Reflect Free](#) (Windows imaging software, free for personal use.)

Sample Robocopy Script

Sample Robocopy Script.cmd

```
robocopy "C:\Users\bill\documents" "e:\documents" /MIR /COPY:DAT /V /TEE
```

You will have to change the source and destination paths. You will also want to change the path for the log file to a folder that exists on your system.

robocopy source destination

If you type robocopy /? at a command prompt, you can find out what all the different switches do.

Robocopy is very versatile and free!

Showing Non Present Devices in Device Manager

When troubleshooting driver problems in Windows, one of the first places you may look is Device Manager, which provides detailed information about every piece of installed system hardware. However, with devices such as removable USB drives, you may need information about devices that are not currently connected. Device Manager recognizes these as nonpresent devices. Here's how to get information about those devices:

1. Go to Start, right-click My Computer, and select Properties.
2. In the System Properties dialog box, select the Advanced tab and click the Environment Variables button.
3. In the Environment Variables dialog box, locate the System Variables panel and click New.
4. In the New System Variable dialog box, type DEVMGR_SHOW_NONPRESENT_DEVICES in the Variable Name text box and type 1 in the Variable Value text box.
5. Click OK twice.
6. To view the nonpresent devices, go to Start, right-click My Computer, and select Manage.
7. Click Device Manager, pull down the View menu, and select Show Hidden Devices.