# Web Resources

# These links were current as of 8/1/2018

**Chapter 2**

<https://explainshell.com/>

An interactive, online program, that allows you to enter Linux commands and their components as you would type them on the command line, and get verbose explanatory help on what you have entered.

<http://man7.org/linux/man-pages/dir_all_alphabetic.html>

An alphabetical listing of all Linux command man pages, current as of the publication of this Web Resources listing.

# Chapter 3

<https://www.nano-editor.org/dist/v2.2/nano.html>

Documentation for the nano text editor.

# Chapter 4

<https://www.tldp.org/LDP/intro-linux/html/sect_03_01.html>

A general overview of the Linux file system.

<https://en.m.wikipedia.org/wiki/File_system>

What a file system is.

<https://opensource.com/life/16/10/introduction-linux-filesystems>

An introduction to Linux file systems.

<https://ext4.wiki.kernel.org/index.php/Main_Page>

Extensive documentation of the EXT2,3, and 4 file systems.

<https://www.ibm.com/developerworks/library/l-anatomy-ext4/index.html>

An excellent analysis of the EXT4 file system.

<https://selvamvasu.wordpress.com/2014/08/01/inode-vs-ext4/>

Inode structure in the EXT4 file system.

<https://opensource.com/article/17/5/introduction-ext4-filesystem>

An introduction to the EXT4 file system.

<https://en.m.wikipedia.org/wiki/Ext4>

Another extensive description and overview of EXT4.

1. **Chapter 5 Description**
2. <https://en.wikipedia.org/wiki/Password_cracking>
3. <https://www.makeuseof.com/tag/5-common-tactics-hack-passwords/>

The above 2 websites describe some of the most commonly used methods to hack passwords.

1. <http://web.cs.du.edu/~mitchell/forensics/information/pass_crack.html>
2. This website describes commonly used techniques to crack passwords and analysis of passwords. This website describes commonly used
3. [http://resources.infosecinstitute.com/10-popular-password-cracking-tools/#gref](http://resources.infosecinstitute.com/10-popular-password-cracking-tools/" \l "gref)
4. This website describes the ten most popular tools for cracking passwords. This website describes the ten most popular tools
5. <https://unix.stackexchange.com/questions/189240/file-with-permissions-s-l>
6. This webpage explains the values displayed by the ls command for the Set-User-ID (SUID) and Set-Group-ID (SGID) bits. This webpage explains the values displayed by the ls c

# Chapter 11

[www.openssh.com](http://www.openssh.com/) The home page for OpenSSH, a free version of ssh.

[www.iana.org/domain-names.htm](http://www.iana.org/domain-names.htm) This page gives detailed information about domain names and domain name services.

w[ww.chiark.greenend.org.uk/~sgtatham/putty/](http://Www.chiark.greenend.org.uk/~sgtatham/putty/) A home page for PuTTY (a free implementation of telnet and ssh for Linux and Win32 platform).

[www.isi.edu](http://www.isi.edu/) The home page for the Information Sciences Institute (ISI) at the University of Southern California (USC). ISI is a useful resource for Internet-related information, such as the history of the Internet, country codes, and protocol port numbers for the well-known Internet services.

w[ww.isoc.org/internet/history/](http://Www.isoc.org/internet/history/) This page contains many documents on the history of the Internet, including its infrastructure, standards, growth, and future.

w[ww.zakon.org/robert/internet/timeline/](http://Www.zakon.org/robert/internet/timeline/) This page has a detailed time line for the history of the Internet, including statistical data for the number of users, hosts, and domains served by the Internet.

[en.wikipedia.org/wiki/Internet\_protocol\_suite](http://en.wikipedia.org/wiki/Internet_protocol_suite) This page contains the history of the TCP/IP protocol suite.

w[ww.ietf.org/rfc.html](http://Www.ietf.org/rfc.html) This page contains all you need to know about RFCs.

[www.ietf.org/download/rfc-index.txt](http://www.ietf.org/download/rfc-index.txt) This page contains the RFC index in text form.

w[ww.iana.org/domains/root/db](http://Www.iana.org/domains/root/db) This page contains the IANA root zone (I.e., top-level domains) database.

w[ww.internetlivestats.com/total-number-of-websites/](http://Www.internetlivestats.com/total-number-of-websites/) This page maintains a live counter for total number of websites in the world.

<http://www.worldwidewebsize.com/> This page maintains the size of the Internet in terms of number of webpages.

<https://news.netcraft.com/archives/2018/>

This page maintains the latest survey about the number and type of web servers on the Internet, and the growth history of Web servers.

w[ww.datacenterknowledge.com/archives/2009/05/14/whos-got-the-most-web-servers/](http://Www.datacenterknowledge.com/archives/2009/05/14/whos-got-the-most-web-servers/) This page contains the latest information about who has the most number of Web servers.

[en.wikipedia.org/wiki/List\_of\_TCP\_and\_UDP\_port\_numbers](http://en.wikipedia.org/wiki/List_of_TCP_and_UDP_port_numbers) List of TCP and UDP port numbers for all well-known and registered ports.

[en.wikipedia.org/wiki/List\_of\_virtual\_communities\_with\_more\_than\_1\_million\_users](http://en.wikipedia.org/wiki/List_of_virtual_communities_with_more_than_1_million_users) This page contains the latest information about the number of registered users of the social websites (virtual communities).

[Zephoria.com/social-media/top-15-valuable-facebook-statistics/](http://Zephoria.com/social-media/top-15-valuable-facebook-statistics/)

This page maintains the latest top-20 statistics about Facebook.

[www.internetworldstats.com/stats.htm](http://www.internetworldstats.com/stats.htm) This page maintains the latest statistics about the worldwide users of the Internet.

f[tp.isc.org/www/survey/reports/2014/01/](ftp://Ftp.isc.org/www/survey/reports/2014/01/) This page contains the latest information about the number of Internet domains.

<http://www.ftp-sites.org/> This page, although fairly dated, contains a list of known ftp sites.

<https://en.wikipedia.org/wiki/ARPANET> This page describes the history of ARPANET and brief early history of the Internet, e-mail, and ftp.

# Chapter 14

General Pages: Shell Commands, Shell Programming, Advanced Linux, and Program Development Tools

<http://www.tutorialspoint.com/unix/unix-manpage-help.htm> A Web page for UNIX shell commands, UNIX shell programming, advance UNIX, and many important UNIX tools and resources

<http://tacpa.org/notes/linux/devTools.html> A Web page for Linux development tools Programming Languages

[www.perl.com](http://www.perl.com/) The Perl language homepage

<https://www.python.org/>

The Python language homepage.

<http://www.bell-labs.com/usr/dmr/www/chist.html> History of the C language by Dennis Ritchie

<http://www.stroustrup.com/C++.html> C++ language page, maintained by Bjarne Stroustrup, designer of the language

<http://www.oracle.com/java/index.html> The home page for Java

<http://www.oracle.com/technetwork/java/index.html> Essentials of the Java programming language

<http://www.gnu.org/software/java/java.html> GNU and the Java language

<http://www.haskell.org/haskellwiki/Haskell> The Haskell programming language

[http://www.eiffel.com](http://www.eiffel.com/) The Eiffel programming language home page

[http://www.smalltalk.org](http://www.smalltalk.org/) The Smalltalk programming language home page

[http://www.visualbasic.org](http://www.visualbasic.org/) Association of Visual BASIC Professionals page

<http://gcc.gnu.org/fortran> Home page for GNU FORTRAN

[http://www.sigapl.org](http://www.sigapl.org/) ACM SIGPLAN chapter on APL

<http://en.wikipedia.org/wiki/AWK>Wikipedia page for AWK

<http://www.grymoire.com/Unix/Awk.html> A nice tutorial on AWK

<http://www.gnu.org/software/gawk> Page for GNU AWK (gawk)

[http://www.tcl.tk](http://www.tcl.tk/) A useful page for TCL developers HTML Activities

<http://www.w3.org/MarkUp> XHxTML2 working group home page

<http://www.w3schools.com/html/> A comprehensive HTML5 tutorial

<http://www.w3schools.com/html/html_intro.asp> Introduction to HTML Compilers

<http://gcc.gnu.org/> The home page for gcc

<http://gcc.gnu.org/java/> The home page for GNU Java compiler gcj

<http://www.w3schools.com/html/> A comprehensive HTML5 tutorial

<https://www.w3.org/XML/> Extensible Markup Language (XML) homepage.

<http://www.cprogramming.com/g++.html> Home page for g++ compiler use

<http://courses.cs.washington.edu/courses/cse373/99au/unix/g++.html> Home page for g++ compiler use

<http://docs.oracle.com/javase/7/docs/technotes/tools/windows/javac.html> Page for Java language compiler javac Make and Library Tools

<http://www.tutorialspoint.com/makefile/index.htm> Nice tutorial on makefiles

[www.cs.colby.edu/maxwell/courses/tutorials/maketutor/](http://www.cs.colby.edu/maxwell/courses/tutorials/maketutor/) Nice tutorial on makefiles

<http://www.gnu.org/software/gdb/gdb.html> The home page for gdb, the GNU project debugger

<http://www.gnu.org/manual/> Online documentation for GNU packages Revision Control with Git/GitHub

<http://gitref.org/> A comprehensive reference site for services offered by GitHub

<http://git-scm.com/> Open source site for Git hosted on GitHub by scm.

<https://github.com/> GitHub hosting site

<http://en.wikipedia.org/wiki/GitHub> The Wikipedia site for GitHub

# Chapter 15

<https://www.linux.org/> Everything about the Linux kernel and all sorts of tutorials for beginner, intermediate, and advance users, programmers, and system admins

<https://www.linux.com/> A site for Linux news, how-tos, answers, forums, etc.

<https://www.howtoforge.com/>

A site for Linux tutorials.

<http://www.tutorialspoint.com/index.htm>

[An excellent site for tutorials on almost all sorts of computing related topics including programming languages, web development, scripting, Java technologies, big data analytics, SAP, databases, and Microsoft technologies](%20An%20excellent%20site%20for%20tutorials%20on%20almost%20all%20sorts%20of%20computing%20related%20topics%20including%20programming%20languages,%20web%20development,%20scripting,%20Java%20technologies,%20big%20data%20analytics,%20SAP,%20databases,%20and%20Microsoft%20technologies%20)

<http://www.tldp.org/>

[All sorts of Linux documentation; some may be outdated](%20All%20sorts%20of%20Linux%20documentation;%20some%20may%20be%20outdated%20)

<http://www.gnu.org/> Homepage for the free operating system GNU by the Free Software Foundation. Work on GNU’s kernel, The Hurd, started in 1990 (before work on Linux had started).

<http://www.tutorialspoint.com/c_standard_library/index.htm> The C standard library.

[http://www.compileonline.com](http://www.compileonline.com/) <(http://www.tutorialspoint.com/codingground.htm)> A great free site for online editing, compiling, and running programs in almost any language from assembly language to Python and from Algol-68 to Ruby.

# Chapter 16

<https://www.linux.org/> Everything about the Linux kernel and all sorts of tutorials for beginner, intermediate, and advance users, programmers, and system admins

<https://computing.llnl.gov/tutorials/pthreads/> An excellent tutorial on Pthreads by Blaise Barney, Lawrence Livermore National Laboratory.

<https://www.linux.org/> Everything about the Linux kernel (with plenty of beginner, intermediate, and advanced tutorials)

<https://www.linux.com/> A site for Linux news, how-tos, answers, forums, etc.

<https://www.howtoforge.com/> A site for Linux tutorials

<http://www.linux-tutorial.info/> A site for Linux tutorials

<http://www.tldp.org/> All sorts of Linux documentation; some may be outdated

<http://www.tutorialspoint.com/index.htm> An excellent site for tutorials on almost all sorts of computing related topics including programming languages, web development, scripting, Java technologies, big data analytics, SAP, databases, and Microsoft technologies

**Chapter 17**

<https://en.wikipedia.org/wiki/Aptitude_(software>)

The Wikipedia page for the Aptitude Package Manager.

<https://en.wikipedia.org/wiki/Rpm_(software>)

The Wikipedia page for the Red Hat Package Manager.

<https://filezilla-project.org/>

The homepage for FileZilla.

<https://en.wikipedia.org/wiki/RAID>

The Wikipedia page describing Redundant Array of Independent Disks (RAID).

[https://clonezilla.org](https://clonezilla.org/)

The homepage for CloneZilla.

<https://en.wikipedia.org/wiki/Logical_Volume_Manager_(Linux)>

The Wikipedia page describing the Linux Logical Volume Manager (LVM).

<https://en.wikipedia.org/wiki/Unified_Extensible_Firmware_Interface>

The Wikipedia page describing the Unified Extensible Firmware Interface (UEFI).

<https://www.fail2ban.org/wiki/index.php/Main_Page>

The homepage of fail2ban security software.

[http://www.webmin.com](http://www.webmin.com/)

The homepage of the webmin web-based system administration tool.

<https://en.wikipedia.org/wiki/YaST>

The Wikipedia page for the Yet another Setup Tool package management system for the Slackware branch of Linux, including openSUSE.

# Chapter 18

<https://wiki.archlinux.org/index.php/systemd>

Extensive documentation on system.

<https://www.freedesktop.org/wiki/Software/systemd/>

A resource pointer to extensive system documentation.

<https://en.m.wikipedia.org/wiki/Systemd>

A good overview of systemd.

<https://en.m.wikipedia.org/wiki/Cgroups>

Documentation of systemd cgroups.

<http://www.freedesktop.org/software/systemd/man/>

A comprehensive list of all system man pages.

<http://0pointer.de/blog/projects/journalctl.html>

journalctl how-to with examples, written by the system project originator.

# Chapter W19

<https://docs.python.org/3/whatsnew/3.5.html>

A comprehensive list of the new features in Python version 3.5.

<https://docs.python.org/2/library/simplehttpserver.html>

Documentation on the Python simplehttpserver.

<http://www.jesshamrick.com/2012/09/18/emacs-as-a-python-ide/>

A neat way of using emacs as an ide for Python.

<https://docs.python.org/2/glossary.html>

A very comprehensive glossary of Python concepts and terminology for beginners.

<https://docs.python.org/2/library/threading.html>

Documentation on the Python threading module for version 2.X.

<https://github.com/google/styleguide/blob/gh-pages/pyguide.md>

A Python style guide used by Google, but adaptable to an ordinary user as well.

<https://docs.python.org/3/reference/>

The Python Language Reference for version 3. 7 at the time of publication of this page.

<https://docs.python.org/3/tutorial/index.html>

A complete Python tutorial for version 3.

<https://docs.python.org/3/library/_thread.html>

Documentation for the \_thread module in Python version 3.

<https://docs.python.org/3/library/threading.html>

Documentation for the threading module in Python version 3.

<https://docs.python.org/3/library/queue.html>

Documentation for the queue module in Python version 3.

[https://docs.python.org/2/glossary.html#term-2to3](https://docs.python.org/2/glossary.html" \l "term-2to3)

Documentation for the 2to3 conversion tool, that translates Python 2 code into Python 3.

# Chapter W20

<http://www.iana.org/>

Webpage for Internet Assigned Numbers Authority (IANA): responsible for the global coordination of the DNS Root, IP addressing, transport protocol port numbers, and other Internet protocol resources

<http://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml>

Service Name and Transport Protocol Port Number Registry

<http://tools.ietf.org/html/rfc6335>

RFC6335: Internet Assigned Numbers Authority (IANA) Procedures for the Management of the Service Name and Transport Protocol Port Number Registry; forums, user groups, etc.

<http://www.iana.org/assignments/protocol-numbers>

Official names and numbers of the protocols

<http://tldp.org/LDP/lpg/node7.html>

Home page for Linux IPC

<http://man7.org/conf/lca2013/IPC_Overview-LCA-2013-printable.pdf>

A detailed tutorial on Linux IPC

<http://www.t1shopper.com/tools/port-number/N/>

<http://www.adminsub.net/tcp-udp-port-finder/N>

Reports IANA assigned service on port ‘N’ (e.g., for N = 22 the page reports the service that is assigned port 22)

<http://www.tutorialspoint.com/index.htm>

An excellent site for tutorials on almost all sorts of computing related topics including programming languages, web development, scripting, Java technologies, big data analytics, SAP, databases, and Microsoft technologies

<http://stackoverflow.com/>

Free question and answer site for rookie and professional programmers

**Chapter W21**

<http://www.tutorialspoint.com/index.htm>

An excellent site for tutorials on almost all sorts of computing related topics including programming languages, web development, scripting, Java technologies, big data analytics, SAP, databases, and Microsoft technologies

<https://www.linux.org/>

Everything about the Linux kernel and all sorts of tutorials for beginner, intermediate, and advance users, programmers, and system admins

<https://www.linux.com/>

A site for Linux news, how-tos, answers, forums, etc.

<https://www.howtoforge.com/>

A site for Linux tutorials

<http://www.linux-tutorial.info/>

A site for Linux tutorials

<http://stackoverflow.com/>

Free question and answer site for rookie and professional programmers

<https://www.netbsd.org/docs/guide/en/chap-inetd.html>

An excellent page on inetd.

<https://www.freebsd.org/doc/handbook/network-inetd.html>

Another excellent page on inetd.

**Chapter W22**

<http://en.wikipedia.org/wiki/ZFS> This website describes the ZFS file system

http://www.bsdnow.tv/tutorials/zfs

<http://www.freebsd.org/doc/en_US.ISO8859-1/books/handbook/filesystems-zfs.html> These websites contain very good tutorials on the ZFS file system, describing the installation of ZFS and administration of its various features

<http://www.princeton.edu/~unix/Mint/troubleshoot/zfs.html> This website discusses the management of the ZFS file system

<http://2007.asiabsdcon.org/papers/P16-paper.pdf> This website contains a paper that describes porting ZFS to FreeBSD

# Chapter W23

<https://www.virtualbox.org/manual/ch08.html>

A very complete command reference for managing VirtualBox VM’s from the Linux command line.

# Chapter W24

[https://github.com](https://github.com/)

The github homepage.

[https://git-scm.com](https://git-scm.com/)

The git-scm homepage.

<https://en.wikipedia.org/wiki/Git>

The very extensive Wikipedia page for git, if you don’t believe us, read what they have to say about git!

<https://www.atlassian.com/git/tutorials/what-is-git>

A brief explanation of git, and a great tutorial.

# Chapter W25

<http://www.ele.uri.edu/faculty/vetter/Other-stuff/vi/text_edit.html>

A compact but complete reference manual for vi.

<https://www.vim.org/docs.php>

A source for vim reference material and documentation.

<http://vimdoc.sourceforge.net/>

A complete set of reference sources for vim, in multiple languages.

<https://raw.githubusercontent.com/vim/vim/master/runtime/doc/version8.txt>

VIM REFERENCE MANUAL , version 8 by Bram Moolenaar

<https://www.gnu.org/software/emacs/documentation.html>

A reference source for GNU emacs.

<https://www.gnu.org/software/emacs/manual/elisp.html>

GNU emacs Lisp reference manual.

# Chapter W26

<http://wiki.linux-nfs.org/wiki/index.php/ACLs>

A basic introduction to NFSV4 ACL’s.

<https://en.m.wikipedia.org/wiki/Network_File_System> <https://www.osc.edu/book/export/html/4523>

A Wikipedia page describing what the Network File System (NFS) is.

<http://pages.cs.wisc.edu/~remzi/OSTEP/dist-nfs.pdf>

An excerpt from an excellent free book on operating systems, describing NFS.

<https://wiki.hpcc.msu.edu/display/hpccdocs/Access+Control+on+NFSv4> <https://help.ubuntu.com/lts/serverguide/firewall.html>

ufw official firewall guide

<https://help.ubuntu.com/community/Firewall>

An Ubuntu Wiki page that explains what a firewall is.

<https://help.ubuntu.com/community/IptablesHowTo?action=show&redirect=Iptables>

Iptables interface to the netfilter sub-system in the Linux kernel

<https://wiki.ubuntu.com/UncomplicatedFirewall> UFW Project wiki page for ufw

<https://help.ubuntu.com/community/Gufw> UFW Project wiki page for gufw

# Chapter W27

<https://rosettacode.org/wiki/Hello_world/Web_server>

A very simple webserver in a variety of source languages

<http://0pointer.de/blog/projects/instances.html>

More on instantiated services in systemd.

<http://0pointer.de/blog/projects/socket-activation.html>

How to do the basics of socket activation in system.

<https://www.freedesktop.org/software/systemd/man/daemon.html>

Guidelines for writing “new-style” daemons in Linux using systemd, comparing them to the traditional daemon code.

<https://www.freedesktop.org/software/systemd/man/systemd-run.html>

The man page for system-run.

<https://forums.linuxmint.com/viewtopic.php?t=223066>

A Linux Mint Forum primer on the systemd journal.

<https://i2.wp.com/arkit.co.in/wp-content/uploads/2016/07/Linux-boot-process.png?ssl=1>

A great graphic describing the boot process under systemd.

<http://cdn.mogile.archive.st-hatena.com/v1/image/mixi_PR/297791556648504227.png>

Another great graphic describing the steps of booting under systemd.

# Chapter W28

<http://doc.qt.io/qtcreator/>

The Qt Creator Manual

<https://en.m.wikipedia.org/wiki/Qt_(software)>

A complete description, with references, of Qt.

<https://en.m.wikipedia.org/wiki/Comparison_of_X_Window_System_desktop_environments>

A good comparison of X Window System desktop environments.

<https://en.m.wikipedia.org/wiki/GTK>+

A complete Wikipedia description of GTK+.

<https://developer.gnome.org/gtk3/stable/>

A very complete GNOME desktop reference for GTK+.

<http://www.tldp.org/LDP/LG/issue70/ghosh2.html>

GNOME programming in Linux using GTK+.