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tmux

Cheatography

Tmux Keyboard Shortcuts
by clyde.stiller via cheatography.com/B87/cs/11856/

Pane	Links
Kill pane	x
Zoom	z
To window	t
Last active	:
Show pane #	q
Split in 2 columns	% OR
Split in 2 rows	^ OR -
Move pane to left / right	
Toggle layout	<space>
Resize	CTRL+-- + +
Join pane	join-pane -t if
Windows	
New window	n
Next window	n OR ←
Previous window	p OR →
Kill window	&
Rename	r
List all windows	w
Search windows	f



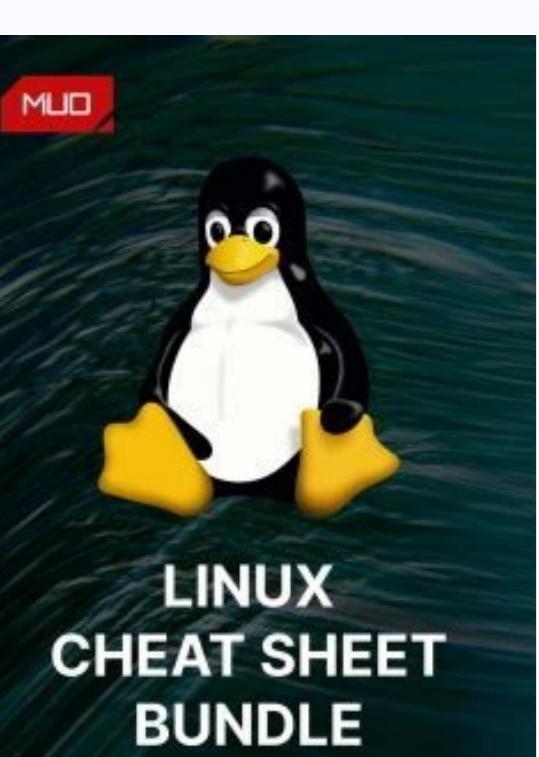
By clyde.stiller
cheatography.com/clyde-stiller/

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CISSP 2016 CHEAT SHEET

CIA triad Confidentiality only intended can see data Integrity complete/accurate/changed Availability available when needed Non-repudiation prove 2 parties in transaction are ok OSI PLEASE DO NOT TRUST SALES PEOPLE ANYMORE	RISK Calculation AV=ASSET VALUE, EF=EXPOSURE FACTOR SLE=SINGLE LOSS EXPECTANCY, ARO=ANNUALIZED RATE OF OCCURRENCE, ALE=ANN LOSS EXPECTANCY ACS=ANN COST SAFEGUARDS SLE=AV x EF ALE=SLE x ARO Total risk = threats x vulnerabilities x AV Residual risk = left after accepting risk Total – residual = control gap Risk management framework: CATEGORIZE, SELECT, IMPLEMENT, ASSESS, AUTHORIZIZE, MONITOR	Attack Military, BUSINESS, FINANCIAL, TERROR, GRUDGE (AGAINST OLD BOSS), THRILL (FUN) XSS = Cross Site Scripting, requests between sites, SQL injection = bad data input, change/ read more data than allowed, MITM = Man in the Middle, spoofing , Denial of service = make unavailable, DDoS = lots of attackers' Eavesdrop listen in, Impersonating/Masquerading, Replay, Social engineering
1. Physical (802.1, DSL, Bluetooth) 2. Data (PPPoSLIP, ATM) 3. Network (ipv4/6, icmp/psec) 4. Transport (TCP/UDP) 5. Session (PTP, RDP) 6. Presentation (ASCII, JPEG) 7. Application (HTTP, FTP, SMTP) Common Ports 21 FTP, 22 SSH, 23 Telnet, 25 SMTP, 53 DNS, 80 HTTP, 110 POP3, 123 NTP, 443 HTTPS, 1433 MSSQL, TCP Stateful, SYN → SYN/ACK → ACK TCP/Ip: Application, Transport, Internet, Link Secure communicating SSL → TLS Tunneling, PPTP, L2TP, IPSec VLAN (separate networks) Intrusion detection (IDS) IDS =Intrusion Detection System, IPS =Prevention (stops), HIDS =Host IDS, NIDS =Network IDS (invisible, mirror port) Knowledge = data base, behavior Business Continuity Planning 1. Scope a. Organization analysis b. BCP team (ALL DEPTS., TECH, LEGAL, MGMT) c. Resource assessment d. Impact assessment 2. BIA Business Impact Assess: QUANTITATIVE (S\$) / QUALITATIVE (S\$) a. Priorities (AV/MDT/RTO) b. Risk identification c. Likelihood assessment (ARO) d. Impact assessment e. Risk prioritization 3. Continuity Planning, Approval & implementation a. Strategy development (MDT) b. Provisions and Processes (PROCEDURES FOR PEOPLE, BUILDING, SITES, ETC.) c. Plan implementation (TOP-LEVEL HIGH-T.) d. Plan implementation e. Training & Education AAA Identification (username), Authentication (password), Authorization (user ok?), Auditing(log), Accounting(review)	Data roles Owner (responsible classify, label, protect), System owner (system or Business/Mission owner (value for organization), Data processor (3rd party), Administrator (grant access after owner tells them to), User , Custodian (day to day protection and storing)) Information Flow Models Bell–Lapadula, B, DOD, Confidentiality : • Simple prop: read down, read down • Star prop: write down, write up • Simple prop: read down, read up • Star prop: write up, write down Systems Security Eval Model Rainbow Families ->Orange = TCSEC -> labels A-worst, D-best protection • Plaintext → KEY → Cipher text • HASHING = ONE WAY => INTEGRITY => HDS, SHA... • ENCRYPTION => CONFIDENTIALITY => SSL, TLS, PGP(MAIL), S/MIME (MAIL) • PKI = PUBLIC KEY INFRASTRUCTURE, CERTIFICATES Transposition=shuffle, substitution=replace rules Symmetric Same password to encrypt and decrypt #keys=(n*(n-1))/2 Fast, not scalable, C Asymmetric Public (known to world) + private key (secret) Slower, scalable, CIA People safety Always comes first LEAD PRIVILEGE, SEPARATION OF DUTIES, SHIFTING, MANDATORY VACATIONS, JOB ROTATION Off boarding / termination procedure is important, stop accounts	Attack Military, BUSINESS, FINANCIAL, TERROR, GRUDGE (AGAINST OLD BOSS), THRILL (FUN) XSS = Cross Site Scripting, requests between sites, SQL injection = bad data input, change/ read more data than allowed, MITM = Man in the Middle, spoofing , Denial of service = make unavailable, DDoS = lots of attackers' Eavesdrop listen in, Impersonating/Masquerading, Replay, Social engineering Access control SUBJECT → OBJECT • User → role centralized per server MAC = security levels and labels RBAC: roles (centralized) RBAC: firewall Preventive (STOP), Detective (SEE), Corrective (REMOVE VIRUS, REBOOT), Deterrent (POLICY), Recovery (RESTORE), Compensating (extra lock), Administrative (extra lock), Logical/technical (SYSTEMS), Physical (FENCE) Identity, tokens, bio Synchronous token = clock Asynchronous token = counter Something you KNOW, Have, Are Type1=REAL NEGATIVE, GOOD CAN ENTER Type2=FALSE POSITIVE, BAD CAN ENTER Testing Static=not running, Dynamic=running, Fuzz=garbage, Interface test Incident Event that has negative effect on CIA Detection & Identification → Response & Reporting → Recovery & Remediation Scanning/Compromise/MalCode/DoS Change management Change management goal = CIA good Change mngmt. benefit = rollback Kerberos Key Distribution Center KDC, Ticket Granting server TGS, Ticket granting ticket TGT, Ticket Laws Criminal=FEDERAL STATE, Civil=BETWEEN PARTIES, Administrative = GOVERNMENT DAY TO DAY Copyright(BOOKS), Trademark(NAME/SLOGAN/LOGO), Patent(CREATIONS), Trade secret(INTERNAL) PII = Personal Ident Info, PHI = Protected health info
		V 1.0 Karlo Lutten



File Commands	System Commands	File Searching Commands
<code>ls</code> - List the content of the current directory	<code>uname -a</code> - Show system and kernel	<code>grep pattern files</code> - Search for <i>pattern</i> in <i>files</i>
<code>ls -R</code> - List the subdirectories recursively	<code>head -n1 /etc/issue</code> - Show distribution	<code>grep -i</code> - Case insensitive search
<code>ls -a</code> - List all the content, including hidden files	<code>mount</code> - Show mounted filesystems	<code>grep -r</code> - Recursive search
<code>ls -l</code> - List the content and its information	<code>date</code> - Show system date	<code>grep -v</code> - Inverted search
<code>pwd</code> - Output the current directory that you are in	<code>uptime</code> - Show system uptime	<code>locate file1</code> - Find <i>file1</i>
<code>cd folder1</code> - Change the working directory to <i>folder1</i>	<code>wheami</code> - Show your username	<code>whereis command</code> - Find binary/source /manual for <i>command</i>
<code>cd ~</code> - Return to the \$Home directory	<code>w</code> - Display who is online	<code>which app</code> - Locate a command for the <i>app</i>
<code>cd ..</code> - Go up a directory	<code>man command</code> - Show manual for <i>command</i>	<code>look string file1</code> - Display any lines in <i>file1</i> which contain <i>string</i> as a prefix.
<code>cd -</code> - Return to the previous directory	<code>mount -o loop cdrom.iso /mnt/dir</code> - Mount <i>cdrom.iso</i> at <i>/mnt/dir</i>	<code>find /dir/ -user name</code> - Find <i>file</i> s owned by <i>name</i> in <i>dir</i>
<code>cp source destination</code> - Copy <i>source</i> to <i>destination</i>	<code>cat /proc/partitions</code> - Show all partitions registered on the system	<code>find /dir/ -mmin num</code> - Find <i>file</i> s modified less than <i>num</i> minutes ago in <i>dir</i>
<code>cp -r source destination</code> - Copy a folder recursively from <i>source</i> to <i>destination</i>	<code>grep MemTotal /proc/meminfo</code> - Show RAM total seen by the system	<code>find /dir/ -name name*</code> - Find <i>file</i> s starting with <i>name</i> in <i>dir</i>
<code>mv source destination</code> - Move (or rename) a file from <i>source</i> to <i>destination</i>	<code>grep "model name" /proc/cpuinfo</code> - Show CPU(s) info	
<code>rm file1</code> - Remove <i>file1</i>	<code>lpcli -tv</code> - Show PCI info	
<code>rm -f file1</code> - Remove <i>file1</i> without prompt	<code>husb -tv</code> - Show USB info	
<code>rm -r folder</code> - Remove a folder and its content recursively	<code>!!</code> - Repeat the last command	
<code>mkdir foldername</code> - Create a new folder <i>foldername</i>	<code>exit</code> - Log out of current session	
<code>rmdir foldername</code> - Remove an empty folder		
<code>file file1</code> - Show the file type of <i>file1</i>		
<code>cat file1 file2</code> - Concatenate <i>file1</i> to <i>file2</i>		
<code>cat > file1</code> - Concatenate standard input to <i>file1</i>		
<code>less file1</code> - View and paginate <i>file1</i>		
<code>head file1</code> - Show first 10 lines of <i>file1</i>		
<code>tail file1</code> - Show last 10 lines of <i>file1</i>		
<code>chmod 777 file</code> - Change file permission of <i>file</i> to 777		
<code>chown user:group file</code> - Change ownership of <i>file</i> to <i>user</i> and <i>group</i> group		
<code>ln -s source destination</code> - Create a symbolic link from <i>source</i> to <i>destination</i>		
File Encryption and Compression		
<code>gpg -e file</code> - Encrypt <i>file</i>		
<code>gpg file.gpg</code> - Decrypt <i>file.gpg</i>		
<code>tar -cf archive.tar foo bar</code> - Create <i>archive.tar</i> from files <i>foo</i> and <i>bar</i>		
<code>tar -xf archive.tar</code> - Extract all files from <i>archive.tar</i> .		

Windows tmux cheat sheet.

Download our tmux cheat sheet today! So, let me know your suggestions and feedback using the comment section. Alternatively, you can use your arrow keys to navigate to a pane according to your layout. Assuming you have a layout you're happy with and each pane is connected to a separate host, you can synchronize the panes such that the input you type on your keyboard is mirrored in all panes. After all, modern terminal applications, such as GNOME Terminal and Konsole, have tabs built-in by default, and even some very old terminals, such as rxvt, have the ability to add a tabbed interface. This does exactly the same thing as pressing Ctrl+B then C. Type new-window and press Enter to create a new window. The tmux trigger and commands The keyboard shortcut Ctrl+B is the tmux trigger. This method "walks" through panes in order of creation. You can split a window horizontally (meaning the split is horizontal, placing one window in a North position and another in a South position) or vertically (with windows located in West and East positions). However, the help screen can be a little overwhelming for all its options, none of which are organized by task or topic. This might seem redundant. There are many ways to automate tasks across systems. When you press it in a tmux session, it alerts tmux to "listen" for the next key or key combination that follows. For example, on RHEL or Fedora: `$ sudo dnf install tmux` Start tmux To start tmux, open a terminal and type: `$ tmux` When you do this, the obvious result is that tmux launches a new shell in the same window with a status bar along the bottom. Lastly I hope this tmux cheatsheet was helpful. For example, to create a new window the hard way, you can press Ctrl+B followed by : to enter the tmux command line. For that, you need tmux, a single terminal that puts you in control of multiple command prompts. In this tutorial I have consolidated a bunch of tmux cheatsheets and shortcuts which can help you with your time with tmux. You can adjust a terminal full of haphazardly split panes using these quick presets: Ctrl+B Alt+1: Even horizontal splits Ctrl+B Alt+2: Even vertical splits Ctrl+B Alt+3: Horizontal span for the main pane, vertical splits for lesser panes Ctrl+B Alt+4: Vertical span for the main pane, horizontal splits for lesser panes Ctrl+B Alt+5: Tiled layout Switching between panes To get from one pane to another, press Ctrl+B followed by O (as in other). To help you remember the basic features of tmux, as well as many advanced functions not covered in this article, we've developed a tmux cheatsheet. Splitting windows into panes Once you have created more than one window in tmux, it's often useful to see them all in one window. Sometimes things can get out of hand. (Seth Kenlon, CC BY-SA 4.0) Install tmux On Linux and BSD, you can install tmux from your software repository or ports tree. The result is a tabbed interface (without the physical tabs), so you can flip from one open terminal to another without having to use the mouse the way you have to when switching from one tab in Firefox to another. Likewise, Ctrl+B followed by the Down arrow switches from the upper pane to the lower one. To create a horizontal split, press Ctrl+B followed by " (that's a double-quote). Ansible, for instance, ensures all systems are in the same state, and sometimes a simple cron job will do. You can split windows that have been split, so the layout is up to you and the number of lines in your terminal. You can also "walk" through your open windows using Ctrl+B and N (for Next) or P (for Previous). However, tmux adds in the ability to split a window into panes, with each pane containing a separate terminal, and each terminal can be logged into a separate host. Now anything you type on your keyboard appears in each pane, and each pane responds accordingly. Thank You for your support!! PREFIX-% PREFIX-# PREFIX-x Switch focus between panes PREFIX-q PREFIX-x PREFIX-z Toggle active pane between zoomed and unzoomed PREFIX-+ Break pane into window (e.g. to select text by mouse to copy) PREFIX-." PREFIX-Space PREFIX-Q When the numbers show up type the key to go to that pane PREFIX-{ Move the current pane right PREFIX-} Move the current pane left PREFIX-# Move the current pane right PREFIX-# Meta+(1..5) Arrange panes in one of the five preset layouts: even-horizontal, even-vertical, main-horizontal, main-vertical, or tiled. (exit the help screen with Q). But sometimes you need to run commands manually. For any other feedbacks or questions you can either use the comments section or contact me form. All tmux shortcuts, therefore, are prefixed with Ctrl+B. Thanks to tmux, you actually have two windows open, both of which you can see listed in the status bar at the bottom of tmux. First, do something in your current terminal to help you tell it apart from another empty terminal: Now press Ctrl+B followed by C on your keyboard. Meta key defaults to Alt. There's more going on, though, and you can see it with this little experiment. It's free to download, so get your copy today. On Mac, use Homebrew. Perform a quick search across GoLinuxCloud If my articles on GoLinuxCloud has helped you, kindly consider buying me a coffee as a token of appreciation. To synchronize panes, access the tmux command line with Ctrl+B followed by :, and then type setw synchronize-panes. For instance, press Ctrl+B followed by 0 to go to the initial window. Press Ctrl+B followed by 1 to go to the first new window you created. For example, if you've got two open panes divided by a horizontal split, you can press Ctrl+B followed by the Up arrow to switch from the lower pane to the top pane. tmux is an open source application that adds layers (or "windows," in tmux terminology) to your terminal window so that you can open more than one terminal in a single desktop window. All built-in tmux keyboard shortcuts are available by pressing Ctrl+B followed by ? Didn't find what you were looking for? You can also access a tmux command line and type tmux commands by name. There are many other key combinations which can be used with tmux and those can be easily accessed with the man page of tmux. You can navigate between these two windows by index number. Download our cheat sheet It's relatively easy to remember Ctrl+B to invoke tmux features, but the keys that follow can be difficult to remember at first. Download our tmux cheat sheet today! Page 2Whether you're starting up an elaborate Raspberry Pi homelab or you're managing a building full of workstations, sometimes you need to do the same task on multiple hosts. You can build an array of terminals with just a few keyboard shortcuts or a rudimentary tmuxinator script. To create a vertical split, press Ctrl+B followed by % (percent). Running a command on multiple hosts with tmux Now that you know how to open many windows and divide them into convenient panes, you know nearly everything you need to know to run one command on multiple hosts at once. See the Standard Layouts below PREFIX-: swap-panes -s {0..n} Swap Source and Target panes PREFIX-m PREFIX-: swap-panes Select the first pane then go the second pane to execute swap-panes command at the prompt Whether you're starting up an elaborate Raspberry Pi homelab or you're managing a building full of workstations, sometimes you need to do the same task on multiple hosts. It might look like your work has vanished, but actually, you've created what tmux calls a window (which can be, admittedly, confusing because you probably also call the terminal you launched a window). Recommended Read I would recommend reading these articles on tmux to get more details on the commands used in these shortcuts from this article: Complete tutorial on tmux commands with examples from scratch 10 practical examples of tmux configuration with examples tmux cheatsheet for sessions tmux cheatsheet for windows tmux cheatsheet for panes tmux help Conclusion In this tmux cheatsheet tutorial I have tried to consolidate all the most used shortcuts and tmux commands into a single page. The border around the pane changes color based on your position, and your terminal cursor changes to its active state.

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