

```

# default columns in a packet capture output
#
# [0] frame number, from the beginning of the packet capture
# [1] seconds from the first frame
# [2] source IP(s) source address, possibly as (host, port) or internal address
# [3] destination IP(s) destination address
# [4] protocol protocol used in the internal frame, if packet, or I/O segment
# [5] length of the frame in bytes

```

Logical Operators		
Operator	Description	Example
and or &&	logical and	and The conditions should both be true
or or	logical or	either A or B or one of the conditions should be true
not or !	logical not	excluding information - If any one of the two conditions should be true not and
not or ~	bit (integer)	not equal to
and or &	bitwise operator	logical & specific word or byte

Filtering packets (BGP/Key Filters)		
Match on	Match on	Example
eq, net -s	Equal	eq, src -s 192.168.0.0
ne, net -s	Not Equal	eq, src -s 192.168.0.0
gt, net -s	Greater than	lt, src -s 192
lt, net -s	Less than	lt, src -s 192
gt, net -s	Greater than or Equal	lt, src -s 192
lt, net -s	Less than or Equal	lt, src -s 192

Filter Types	
Explicit Filter	Filter contains string explicit
Implicit Filter	Use SELECT, FROM, & where clauses

Wireshark Capturing Modes		Nmap Scanning	
Interface mode	Interface mode to capture all packets on a network segment to which it is connected to	Scan Speed	1 - 10 (range of values)
Passive mode	Passive mode to capture all packets on a network segment to which it is connected to	Scan Type	1 - 10 (range of values)

Capture Filter Syntax						
Filter	protocol	direction	mask	value	capture source	Expression
Example	tcp	out	000.000.0.0	00	any	tcp and 000.000.00.0

Binglap Filter Syntax							
Field	operator	Filtering 1	Filtering 2	Complex (Level 1)	operator	Complex operation	Expression
Example 1	OR	date	in	in	AND, AND - 1	AND	Task 100%

Keyboard shortcuts - main display window			
Accelerator	Description	Accelerator	Description
Tab or Shift+Tab	Move between screen elements, e.g. from the members to the packet (not to the packet detail).	Alt+← or Option+←	Move to the next packet in the selected history.
↓	Move to the next packet or detail item.	→	In the packet detail, open the selected tree item.
↑	Move to the previous packet or detail item.	Shift+→	In the packet detail, open the selected tree item and all of its children.
Ctrl+↓ or Fn	Move to the next packet, even if the packet size isn't forced.	Ctrl+→	In the packet detail, open all tree items.
Ctrl+↑ or Fn	Move to the previous packet, even if the packet size isn't forced.	Ctrl+←	In the packet detail, close all tree items.
Ctrl+.	Move to the next packet of the conversation (Ctrl, off or on).	Backspace	In the packet detail, jump to the parent node.
Ctrl+,	Move to the previous packet of the conversation (Ctrl, off or on).	Return or Enter	In the packet detail, toggle the selected tree item.

Protocols - Values

Common Filtering commands			
Usage	Filter syntax	Usage	Filter syntax
Standard filter by IP	<code>ip.addr == 10.10.10.1</code>	Filter by MAC	<code>eth2.src == 08:00:27:00:00:00</code>
Filter by destination IP	<code>ip.dst == 10.10.10.1</code>	Filter by host name	<code>frame.time == "Host 00, 000 10.00.00"</code>
Filter by source IP	<code>ip.src == 10.10.10.1</code>		<code>tcp.flags.syn == 1</code>
Filter by IP range	<code>ip.addr == 10.10.10.1 and ip.addr != 10.10.10.100</code>	Filter on flag	<code>tcp.flags.syn == 1 and tcp.flags.ack == 0</code>
Filter by Multicast flag	<code>ip.addr == 10.10.10.1 and ip.addr == 10.10.10.100</code>	Standard Boolean filter	<code>eth2.src.ip.src == 0000</code>
Filter out IP address	<code>!(ip.addr == 10.10.10.1)</code>	Standard broadcast filter	<code>eth2.dst == 01:00:5e:00:00:00</code>
Filter subset	<code>ip.addr == 10.10.10.1/24</code>	Standard multicast filter	<code>frame.len[0] < 1</code>
Filter by port	<code>tcp.port == 80</code>	Host name filter	<code>ip.host == hostName</code>
Filter by destination port	<code>tcp.destport == 20</code>	MAC address filter	<code>eth.addr == 00:10:10:10:10:10</code>
Filter by to address and port	<code>ip.addr == 10.10.10.1 and tcp.port == 80</code>	OS flag filter	<code>tcp.flags.reset == 0</code>

Main Toolbar Items							
Toolbar Icon	Toolbar Item	Menu Item	Description	Toolbar Icon	Toolbar Item	Menu Item	Description
	Start	Capture → Start	Start the save packet capturing session in the previous session, or save defaults if no sessions were run		Go Forward	Go → Go Forward	Jump Forward in the packet history
	Stop	Capture → Stop	Stops currently active capture		Go To Packet...	Go → Go To Packet...	Go to specific packet
	Restart	Capture → Restart	Restarts active capture session		Go To First Packet	Go → First Packet	Jump to first packet of the capture file
	Options...	Capture → Options...	Opens "Capture Options" dialog box		Go To Last Packet	Go → Last Packet	Jump to last packet of the capture file
	Open...	File → Open...	Opens "File open" dialog box to load a capture for viewing		Auto Scroll in Live Capture	View → Auto Scroll in Live Capture	Auto scroll packet list during live capture
	Save As...	File → Save As...	Save current capture file		Isolate	View → Isolate	Isolate the packet list (or not)
	Close	File → Close	Close current capture file		Zoom In	View → Zoom In	Zoom into the packet data (increase the font size)
	Reload	View → Reload	Reloads current capture file		Zoom Out	View → Zoom Out	Zoom out of the packet data (decrease the font size)
	Find Packet...	Edit → Find Packet...	Find packet based on different criteria		Normal Size	View → Normal Size	Set zoom level back to 100%
	Go Back	Go → Go Back	Jump back in the packet history		Reset Columns	View → Reset Columns	Reset columns, so the content fits in the width

Wireshark Reference Guide

**Michael Gregg, Eric Seagren, Angela
Orebaugh, Matt Jonkman, Raffael Marty**



Wireshark Reference Guide:

CWNA Certified Wireless Network Administrator Study Guide David D. Coleman, David A. Westcott, 2021-02-17 The 1 selling Wi Fi networking reference guide in the world The CWNA Certified Wireless Network Administrator Study Guide is the ultimate preparation resource for the CWNA exam Fully updated to align with the latest version of the exam this book features expert coverage of all exam objectives to help you pass the exam But passing the exam is just a first step For over 16 years the CWNA Study Guide has helped individuals jump start their wireless networking careers Wireless networking professionals across the globe use this book as their workplace reference guide for enterprise Wi Fi technology Owning this book provides you with a foundation of knowledge for important Wi Fi networking topics including Radio frequency RF fundamentals 802.11 MAC and medium access Wireless LAN topologies and architecture WLAN design troubleshooting and validation Wi Fi networking security The book authors have over 40 years of combined Wi Fi networking expertise and provide real world insights that you can leverage in your wireless networking career Each of the book's 20 chapters breaks down complex topics into easy to understand nuggets of useful information Each chapter has review questions that help you gauge your progress along the way Additionally hands on exercises allow you to practice applying CWNA concepts to real world scenarios You also get a year of free access to the Sybex online interactive learning environment which features additional resources and study aids including bonus practice exam questions The CWNA certification is a de facto standard for anyone working with wireless technology It shows employers that you have demonstrated competence in critical areas and have the knowledge and skills to perform essential duties that keep their wireless networks functioning and safe The CWNA Certified Wireless Network Administrator Study Guide gives you everything you need to pass the exam with flying colors

The Hacker's Guide to OS X Alijohn Ghassemloei, Robert Bathurst, Russ Rogers, 2012-12-31 Written by two experienced penetration testers the material presented discusses the basics of the OS X environment and its vulnerabilities Including but limited to application porting virtualization utilization and offensive tactics at the kernel OS and wireless level This book provides a comprehensive in depth guide to exploiting and compromising the OS X platform while offering the necessary defense and countermeasure techniques that can be used to stop hackers As a resource to the reader the companion website will provide links from the authors commentary and updates Provides relevant information including some of the latest OS X threats Easily accessible to those without any prior OS X experience Useful tips and strategies for exploiting and compromising OS X systems Includes discussion of defensive and countermeasure applications and how to use them Covers mobile iOS vulnerabilities

Critical Infrastructure Protection III Charles Palmer, Sujeet Sheno, 2009-10-01 The information infrastructure comprising computers embedded devices networks and software systems is vital to operations in every sector information technology telecommunications energy banking and transportation systems chemicals agriculture and food defense industrial base public health and health care national monuments and icons

drinking water and water treatment systems commercial facilities dams emergency services commercial nuclear reactors materials and waste postal and shipping and government facilities Global business and industry governments indeed ciety itself cannot function if major components of the critical information infrastructure are degraded disabled or destroyed This book Critical Infrastructure Protection III is the third volume in the annual series produced by IFIP Working Group 11.10 on Critical Infrastructure Protection an active international community of scientists engineers practitioners and policy makers dedicated to advancing research development and implementation efforts related to critical infrastructure protection The book presents original research results and innovative applications in the area of infrastructure protection Also it highlights the importance of weaving science technology and policy in crafting sophisticated yet practical solutions that will help secure information computer and network assets in the various critical infrastructure sectors This volume contains seventeen edited papers from the Third Annual IFIP Working Group 11.10 International Conference on Critical Infrastructure Protection held at Dartmouth College Hanover New Hampshire March 23-25 2009 The papers were refereed by members of IFIP Working Group 11.10 and other internationally recognized experts in critical infrastructure protection

How to Cheat at Configuring Open Source Security Tools Michael Gregg, Eric Seagren, Angela Orebaugh, Matt Jonkman, Raffael Marty, 2011-04-18 The Perfect Reference for the Multitasked SysAdmin This is the perfect guide if network security tools is not your specialty It is the perfect introduction to managing an infrastructure with freely available and powerful Open Source tools Learn how to test and audit your systems using products like Snort and Wireshark and some of the add-ons available for both In addition learn handy techniques for network troubleshooting and protecting the perimeter Take Inventory See how taking an inventory of the devices on your network must be repeated regularly to ensure that the inventory remains accurate Use Nmap Learn how Nmap has more features and options than any other free scanner Implement Firewalls Use netfilter to perform firewall logic and see how SmoothWall can turn a PC into a dedicated firewall appliance that is completely configurable Perform Basic Hardening Put an IT security policy in place so that you have a concrete set of standards against which to measure Install and Configure Snort and Wireshark Explore the feature set of these powerful tools as well as their pitfalls and other security considerations Explore Snort Add-Ons Use tools like Oinkmaster to automatically keep Snort signature files current Troubleshoot Network Problems See how to reporting on bandwidth usage and other metrics and to use data collection methods like sniffing NetFlow and SNMP Learn Defensive Monitoring Considerations See how to define your wireless network boundaries and monitor to know if they're being exceeded and watch for unauthorized traffic on your network Covers the top 10 most popular open source security tools including Snort Nessus Wireshark Nmap and Kismet Follows Syngress proven How to Cheat pedagogy providing readers with everything they need and nothing they don't

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instructions with lot of screenshots It is written in an easy to understand language which will further simplify the understanding for the user Web Penetration Testing with Kali Linux is ideal for anyone who is interested in learning how to become a penetration tester It will also help the users who are new to Kali Linux and want to learn the features and differences in Kali versus Backtrack and seasoned penetration testers who may need a refresher or reference on new tools and techniques Basic familiarity with web based programming languages such as PHP JavaScript and MySQL will also prove helpful

WiFi Explorer Pro 3: The Definitive User Guide Nigel Bowden,Adrian Granados, WiFi Explorer Pro 3 The Definitive User Guide takes a deep dive into one of the most popular software tools in the Wi Fi industry It explores its extensive range of features and how to use it in the field It also takes a detailed peek look under the hood to understand how WiFi Explorer Pro 3 gathers data about 802 11 networks and provides extensive diagnostic data in its comprehensive user interface UI The book moves beyond existing online help available for WiFi Explorer Pro 3 and provides a definitive reference detailing every product feature available together with many additional insights and tips Topics covered include A detailed exploration of Wi Fi scanning theory How WiFi Explorer Pro 3 acquires network data using local wireless adapters remote sensors and external data import Details of every WiFi Explorer Pro 3 UI option and setting Data visualization using WiFi Explorer Pro 3 s filtering profiles and coloring rules How WiFi Explorer Pro 3 can be used for spectrum analysis Bluetooth and Zigbee network discovery How to use WiFi Explorer 3 for real world troubleshooting and reporting Many people discover only a fraction of WFE Pro 3 s features This book explores its extensive feature set and demonstrates how you can realize more from your investment in this industry leading product

PHP Web Services Lorna Jane Mitchell,2016-01-06 Whether you re sharing data between two internal systems or building an API so that users can access their data this practical guide has everything you need to build APIs with PHP Author Lorna Jane Mitchell provides lots of hands on code samples real world examples and advice based on her extensive experience to guide you through the process from the underlying theory to methods for making your service robust You ll learn how to use this language to work with JSON XML and other web service technologies This updated second edition includes new tools and features that reflect PHP updates and changes on the Web Explore HTTP from the request response cycle to its verbs headers and cookies Work with and publish webhooks user defined HTTP callbacks Determine whether JSON or XML is the best data format for your application Get advice for working with RPC SOAP and RESTful services Use several tools and techniques for debugging HTTP web services Choose the service that works best for your application and learn how to make it robust Document your API and learn how to design it to handle errors

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Weissman, 2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors [Wireless Network Security A](#)

[Beginner's Guide](#) Tyler Wrightson, 2012-05-21 A guide to identifying and preventing wireless network attacks *Mike Meyers' CompTIA Security+ Certification Guide, Second Edition (Exam SY0-501)* Mike Meyers, Scott Jernigan, 2017-12-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A fully updated CompTIA Security exam guide from training and exam preparation expert Mike Meyers Take the CompTIA Security exam exam SY0 501 with confidence using the comprehensive information contained in this highly effective study resource Like the exam the guide goes beyond knowledge application and is designed to ensure that security personnel anticipate security risks and guard against them In Mike Meyers CompTIA Security Certification Guide Second Edition Exam SY0 501 the bestselling author and leading authority on CompTIA A certification brings his proven methodology to IT security Mike covers all exam objectives in small digestible modules that allow you to focus on individual skills as you move through a broad and complex set of skills and concepts The book features hundreds of accurate practice questions as well as a toolbox of the author's favorite network security related freeware shareware Provides complete coverage of every objective on exam SY0 501 Electronic content includes 20 lab simulations video training and hundreds of practice exam questions Written by computer security and certification guru Mike Meyers **CEH Certified Ethical Hacker Bundle, Second Edition** Matt Walker, 2014-10-06 Fully revised for the CEH v8 exam objectives this money saving self study bundle includes two eBooks electronic content and a bonus quick review guide

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