

EN-4000[™] Reference Manual Document 12

Monitoring the EN-4000

The EN-4000 is the newest member of Encore Networks' family of routers. It provides wireless and cabled connections to a local area network (LAN) and to local and remote devices.

Make sure you have performed the procedure in *Logging In*. Also review the document *Configuring General Settings for the EN-4000* for information on setting up your EN-4000 for its functions, uses, and purposes in the network.

After you have performed the procedure in *Logging In*, the Status Overview Screen is displayed (Figure 12-1).

tatus System Network Sta	tistics Logout		
verview Firewall Routes S	system Log Kernel Log Processes	Realtime Graphs	
atus			
vstem			
Router Name	EN400	0	
Router Model	EN 400	0	
Firmware Version	Beta 1	4.2	
Local Time	Fri Mar		
Untime	1 d 21b	14m 9s	
openie	10 21		
Memory			
Total Available	2414	40 kB / 255820 kB (94%)	
Free	2324	00 kB / 255820 kB (90%)	
Cached	90	40 kB / 255820 kB (3%)	
Buffered	d	kB / 255820 kB (0%)	
letwork			
IPv4 WAN Status		Nune: dbcn	
		Address: 192.168.101.109	
	2 I	Netmask: 255.255.255.0	
	euro	DNS 1: 8.8.8.8	
	(Connected: 1h 1m 51s	
IPv6 WAN Status	2 No.	at connected	
Active Connections		182 / 16384 (1%)	
OHCP Leases			
Hostname	IPv4-Address	MAC-Address	Leasetime remaining
HP-p6-2016	192.168.1.198	38:60:77:82:55:1a	10h 57m 3s

Figure 12-1. Status Overview Screen

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The Status Overview Screen is the first screen you see after you log into the EN-4000. This screen provides an overview of the EN-4000's operation and its WAN port identification.

12.1 Monitoring

On screens for the EN-4000 management system, the top row of tabs indicates the management area, and the second row indicates configuration areas—items to configure or monitor within the selected management area. (The EN-4000 senses its hardware configuration and displays tabs to represent that configuration.)

In each management area, you can select items you wish to manage on the EN-4000.

- **1** To monitor the EN-4000, do the following:
 - a Select a management area tab.
 - **b** Then select a configuration area tab.
 - **c** Occasionally there will be a third row of tabs, for details. If so, select a detail tab.
 - The selected screen is displayed.

Note: You can also monitor information by viewing configuration screens. On those screens, you can make changes in the configuration if they are needed. See the document *Configuring General Settings for the EN-4000*.

Caution: Always consult your network administrator before changing
information.

Screens for monitoring the EN-4000 follow.

12.1.1 Collection of Statistics

Confer with your network administrator to determine settings for collection of statistics. Enter those values into the statistics collection screens.

Note: To view displays of the statistics collected here, see Graphs.

- **1** To collect EN-4000 statistics, do the following on the EN-4000 management screens.
 - a Select the Statistics management area.
 - The Initial Statistics Screen is displayed (Figure 12-9).

Figure 12-2. Initial Statistics Screen



Note: If you click on the Collectd link, you will see a website describing the Collectd Method of Statistics Collection is displayed (Figure 12-3).



collectd	Homepage Wiki
Navigation Start page Features News Download FAQs Documentation Decumentation Contact	collectd – The system statistics collection daemon collectd is a adaemon which collects system performance statistics periodically and provides mechanisms to store the values in a variety of ways, for example in a RRD files.
Download collectd-5.4.1.tar.bz2 collectd-5.4.1.tar.gz collectd-5.3.1.tar.bz2 collectd-5.3.1.tar.gz	collect gathers statistics about the system it is running on and stores this information. Those statistics can then be used to find current performance bottlenecks (i.e. <i>performance analysis</i>) and predict future system load (i.e. <i>capacity planning</i>). Or if you just want pretty graphs of your private server and are fed up with some homegrown solution you're at the right place, too ;). Usually one graph says more than a thousand words, so here's a graph showing the <i>xCPU</i> utilization of a system over the last 60 minutes:
collectd-4.10.9 tar.bz2 collectd-4.10.9.tar.gz more	CPU 1 usage
News 2014-01-26 Version 5.4.1 available. 2013 08 18	Id: 00 Hin 10: 00 Hin 10: 10
Version 5.4.0 available.	Why collectd?

- **b** Select the **Collectd** configuration area tab.
 - The Statistics Collectd Settings Screen is displayed (Figure 12-4).

Figure 12-4. Statistics Collectd Settings Screen

encorenetworks	
Status System Network Statistics Logout	
Collectd Graphs	
Network plugins Output plugins System plugins	
Collectd Settings	
Collectd is a small daemon for collecting data from various sources through	different plugins. On this page you can change general settings for the collectd daemon.
Base Directory	/var/run/collectd
Directory for sub-configurations	/etc/collectd/conf d
Directory for collectd plugins	/usr/lib/collectd
Used PID file	/var/run/collectd.pid
Datasets definition file	/usr/share/collectd/types.db
Data collection interval	30 Seconds
Number of threads for data collection	2
Try to lookup fully qualified hostname	
- Additional Field 💌 📩 Add	
L	
	🙆 Reset 🖉 Save & Apply

- 1 On the Statistics Collectd Settings Screen (Figure 12-4), select Network Plugins; then select Interfaces.
 - The Statistics Interface Plug-In Configuration Screen (Figure 12-5) is displayed.

Figure 12-5. Statistics Interface Plug-In Configuration Screen

encor <mark>e n</mark> etworks			
Status System Network Statistics Lo	gout		
Network plugins Output plugins System plugin Interfaces Wireless			
Interface Plugin Configuration The interface plugin collects traffic statistics on sele	cted interfaces.		
Enable this plugin	2		
Monitor interfaces	eth0 eth1 ifb0 br-lan	* 8	
Monitor all except specified			
L		(i) Rr	eset 🕝 Save 🔝 Save & Apply

- 2 On the Statistics Collectd Settings Screen (Figure 12-4), select Network Plugins; then select Wireless.
 - The Statistics Wireless Interface Plug-In Configuration Screen (Figure 12-6) is displayed.

Figure 12-6. Statistics Wireless Interface Plug-In Configuration Screen

Stetus System Network Statistics L Collectd Graphs Network plugins Output plugins System plugir Interfaces Wireless Vireless iwinfo Plugin Configuration	agout . ns	
he iwinfo plugin collects statistics about wireless	signal strength, noise and quality.	
Enable this plugin		
Monitor interfaces	<pre> øs Bridge: "br-lan" (lan) Je Ethernet Adapter: "eth0" (wan) Je Ethernet Adapter: "eth1" (lan) </pre>	
	B Leave unselected to automatically determine interfaces to monitor.	
Monitor all except specified		
	@ F	Reset 🥝 Save 🔲 Save & Apply

- **3** On the Statistics Collectd Settings Screen (Figure 12-4), select **Output Plugins**; then, if necessary, select **RRDTool**.
 - The Statistics Collectd Output Plug-In RRDTool Screen (Figure 12-7) is displayed.

Figure 12-7. Statistics Collectd Output Plug-In RRDTool Screen

atus System Network Statistics Logout		
ollectd Graphs		
etwork plugins Output plugins System plugins		
RDTool		
DTool Plugin Configuration		
redtool plugin stores the collected data in red database	files the foundation of the diagrams	
/ ITOLOOI DIUGIII SCOLES CHE COLECCED GALA IN ITO GALADASE	riles, the foundation of the diagrams.	
urning: Setting the wrong values will result in a very l	high memory consumption in the temporary directory. This can render the device un	usable!
rning: Setting the wrong values will result in a very l Enable this plugin	high memory consumption in the temporary directory. This can render the device un	nusable!
rming: Setting the wrong values will result in a very l Enable this plugin Storage directory	high memory consumption in the temporary directory. This can render the device un	usable!
rming: Setting the wrong values will result in a very l Enable this plugin Storage directory Only create average RRAs	high memory consumption in the temporary directory. This can render the device un Imp/md Imp/md Imp/md	usable!
nning: Setting the wrong values will result in a very l Enable this plugin Storage directory Only create average RRAs Stored timespans	high memory consumption in the temporary directory. This can render the device un	usable!
arning: Setting the wrong values will result in a very l Enable this plugin Storage directory Only create average RRAs Stored timespans Rows per RRA	high memory consumption in the temporary directory. This can render the device un	usable!

- 4 On the Statistics Collectd Settings Screen (Figure 12-4), select System Plugins; then, if necessary, select System Load.
 - The Statistics Collectd System Load Plug-In Screen (Figure 12-8) is displayed.

Figure 12-8. Statistics Collectd System Load Plug-In Screen

						Unsaved Changes
Status System Network Statistics Logout						
Collectd Graphs						
Network plugins Output plugins System plugins						
System Load						
Load Plugin Configuration						
The load plugin collects statistics about the general system load.						
Enable this plugin	V					
				Reset	Save	🔝 Save & Apply

12.1.2 Graphs

The EN-4000 management system includes graphs that provide visual depictions of trends. Use the following procedures to see graphs.

- Displaying Graphs Ending at the Current Time
- Displaying Graphs Beginning at the Current Time

Note: You can configure collection of these statistics for these graphs in *Collection of Statistics*.

12.1.2.1 Displaying Graphs Ending at the Current Time

- **1** To view graphs of EN-4000 traffic statistics up to the current second, do the following on the EN-4000 management screens.
 - a Select the Statistics management area.
 - The Initial Statistics Screen is displayed (Figure 12-9).

Figure 12-9. Initial Statistics Screen

encore networks	ges: 0
Status System Network Statistics Logout	
Collectd Graphs	
Statistics	
The statistics package is based on <u>Collectd</u> and uses <u>RRD Tool</u> to render diagram images from collected data.	

- **b** Select the **Graphs** configuration area.
 - The Initial Screen for Graphs of EN-4000 Statistics is displayed (Figure 12-10).

Figure 12-10. Initial Screen for Graphs of EN-4000 Statistics

encoreinetworks	Changes:
Status System Network Statistics Logout	
Callectd Graphs	
Interfaces System Load	
Statistics	
The statistics package is based on <u>Collectd</u> and uses <u>BRD Tool</u> to render diagram images from collected data.	

- **2** To see statistics for the LAN ports on the rear of the EN-4000, select the **Interfaces** detail tab.
 - The Graph for EN-4000 LAN Interface Statistics is displayed (Figure 12-11).



Figure 12-11. Graph for EN-4000 LAN Interface Statistics

This screen shows the number of bytes and the number of packets that have passed through the LAN bridge.

Below the graph, labels (with colors corresponding to areas in the graph) provide a key for information.

- **a** To see information for the past hour, day, week, month, and year for another EN-4000 in the network, do the following:
 - i In the device name field (under the page heading Statistics in Figure 12-11), use the pulldown menu to select the router whose statistics you wish to review.
 - ii Then select Display Host.
- iii Use the time period's pulldown menu to select **1hour**, **1day**, **1week**, **1month**, or **1year**.
- iv Then click on the button to Display Timespan.
- Statistics are displayed for the selected timespan.
- **3** To see traffic statistics for all ports on the EN-4000 router, select the **System Load** detail tab.

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The Graph for EN-4000 System Load Statistics is displayed (Figure 12-12).

Figure 12-12. Graph for EN-4000 System Load Statistics

Status System Services Network Collectd Graphs	Statistics Logout
Interfaces System Load	
Statistics	
OpenWrt 🗸	🛛 🖬 Display Host » 🛛 Thour 💽 🖬 Display timespan »
	OpenWrt: Load 0.1 0.1 0.1 0.1 1 minutes Avg: 0.0 19:60 20:10 20:10 20:10 20:20

This screen shows the traffic load through all the ports of the EN-4000.

Below the graph, labels (with colors corresponding to areas in the graph) provide a key for information.

- **a** To see information for the past hour, day, week, month, and year for another EN-4000 in the network, do the following:
 - i In the device name field (under the page heading **Statistics**), use the pulldown menu to select the router whose statistics you wish to review.
 - ii Then select Display Host.
- iii Use the time period's pulldown menu to select 1hour, 1day, 1week, 1month, or 1year.
- iv Then click on the button to Display Timespan.
- Statistics are displayed for the selected timespan.

12.1.2.2 Displaying Graphs Beginning at the Current Time

To view graphs of EN-4000 traffic statistics beginning at the current second and updating through three-second intervals (in real time), do the following on the EN-4000 management screens.

- 1 Select the **Status** management area.
- 2 Select the **Realtime Graphs** configuration area.
- 3 If necessary, select the Load detail tab.

The Realtime Load Performance Graph is displayed (Figure 12-13).



Figure 12-13. Realtime Load Performance Graph

This screen depicts all traffic through the EN-4000 in real time (that is, as that traffic occurs). Below the graph, labels (underscored with colors corresponding to areas in the graph) provide quick information for the current **Load**, the mean **Average**, and the **Peak** traffic for:

- The past **one minute** (sometimes displayed as pink; sometimes displayed as dark orange)
- The past **five minutes** (usually displayed as medium orange)
- The past **fifteen minutes** (usually displayed as light orange, almost yellow)

Compare the activity in Figure 12-13 and in Figure 12-14. (The two figures present the same information at different points in time. The information in Figure 12-14 starts about 5 seconds after the information in Figure 12-13 ends.)

	resh: on		Changes: (
Status System Network Statistics I	Logout		
Overview Firewall Routes System Log K	ernel Log Processes Realtime Graphs		
Load Traffic Connections			
Realtime Load			
4m	3m	2m	Im
0.04			
p.03			
			(designed and an and a second second
			(4 minute Whoow, 3 second interval)
1 Minute Load: 0.00 5 Minute Load: 0.02	Average: Average:	0.00	Peak: 0.03 Peak: 0.05
15 Minute Load: 0.05	Average:	0.05	Peak: 0.05

Figure 12-14. Realtime Load Performance Graph at a Later Time

- 4 Select the Traffic detail tab.
- a If necessary, select the br lan detail area.
 - The Realtime Performance Graph of LAN Bridge Traffic is displayed (Figure 12-15).



encore		efresh: on			Changes:
Status	System Network Statistics	Logout			
Overview	Firewall Routes System Log	Kernel Log Processes	Realtime Graphs		
Load T	raffic Connections				
Realtime	Traffic				
br-lan					
4m		3m		2m	Im
207.78 kbi	it/s (25.97 kB/s)				
138 52 14	ale (17.31 kR/s)				
69 26 kbit	/s (8.66 kB/s)				
and the second	KLALALALALALALALALALALALALALAL			sisisisisisisisisisisisisisisisisisisi	(4 minute window, 3 second interval)
	Inbound: 5.16 kbit/s		Average:	3.37 kbit/s	Peak: 39.86 kbit/s
	(0.65 kB/s) Outbound: 1.27 kbit/s		Average:	(0.42 kB/s) 4.53 kbit/s	(4.98 kB/s) Peak: 251.85 kbit/s
	(0.16 kB/s)			(0.57 kB/s)	(31.48 kB/s)

- **b** On this same screen, select the **eth0** detail area.
 - The Realtime Performance Graph of WAN Port Traffic is displayed (Figure 12-16).



Figure 12-16. Realtime Performance Graph of WAN Port Traffic

- c On this same screen, select the eth1 detail area.
 - The Realtime Performance Graph of LAN Port Traffic is displayed (Figure 12-17).

Figure 12-17. Realtime Performance Graph of LAN Port Traffic



- 5 Select the Connections detail tab.
 - The Realtime Performance Graph of Network Connections is displayed (Figure 12-18).



Figure 12-18. Realtime Performance Graph of Network Connections

12.1.3 Routing Information

Figure 12-19 (Status, Routes) displays the Address Resolution Protocol (ARP) Table and the IP routes for ports on the EN-4000.

or <mark>e-n</mark> etworks				
tus System Network Statistics	Logout			
rview Firewall Routes System	Log Kernel Log Processes Realtime Graphs			
tes				
ollowing rules are currently active on	this system			
(P				
IPv4-Address		MAC-Address	Interface	
		00:17:cb:40:5f:80 e		
192.168.101.17				
192.168.101.17 192.168.1.198	38	:60:77:82:55:1a	br-lan	
192.168.101.17 192.168.1.198 tive IPv4-Routes Network	Target	:60:77:82:55:1a IPv4-Gateway	br-lan Metric	
192.168.101.17 192.168.1.198 tive <u>IPv4</u> -Routes Network wan	Target 0.0.0.0/0	:60:77:82:55:1a <u>IPv4-Gateway</u> 192.168.101.17	br-lan Metric 0	
192.168.101.17 192.168.1.198 tive IPv4-Routes Network wan Ian	33 Target 0.0.0.0/0 192.160.1.0/24	:60:77:82:55:1a IPv4-Gateway 192:168:101.17 0.0.0.0	br-lan Metric 0 0	
192.168.101.17 192.168.1.198 tive IPv4-Routes Network wan Ian wan	Target 0.0.0.0/0 192.168.1.0/24 192.168.10.10/24	:60:77:82:55:1a IPv4-Gateway 192.168.101.17 0.0.0.0 0.0.0.0	br-lan Metric 0 0 0	
192.168.101.17 192.168.1.198 tive IPv4-Routes Network wan Ian wan	Target 0.0.0.0/0 192.168.1.0/24 192.168.101.0/24	:60:77:82:55:1a IPv4-Gateway 192.168.101.17 0.0.0.0 0.0.0.0	br-lan Metric 0 0 0 0	
192.168.101.17 192.168.1.198 tive IPv4-Routes Network wan lan wan tive IPv6-Routes Network	Target 0.0.0.0/0 192.168.101.0/24 192.168.101.0/24	:60:77:82:55:1a IPv4-Gateway 192.168.101.17 0.0.0.0 0.0.0.0 IPv6-Gateway	br-lan Metric 0 0	
192.168.101.17 192.168.1.198 tive IPv4-Routes Network wan lan wan tive IPv6-Routes Network lopoback	Target 0.0.0.0/0 192.168.10/24 192.168.101.0/24 Target 0:0:0:0:0:0:0:0/0	160:77:82:55:1a IPv4-Gateway 192:168:101.17 0.0.0 0.0.0 IPv6-Gateway 0:00:00:00:00:00:00	br-lan Metric 0 0 0 Metric	
192.168.101.17 192.168.11.19 tive IPv4-Routes wan lan wan tive IPv6-Routes Network loopback	Target 38 0.0.0.00 192.168.10/24 192.168.10/24 192.168.10/24 Target 0:0:0:0:0:0:0:00/0 0:0:0:0:0:0:0:01	:60:77:82:55:1a IPv4-Gateway 192.168.101.17 0.0.0.0 0.0.0.0 IPv6-Gateway 0:0:0:0:0:0:0:0/0 0:0:0:0:0:0:0/0	br-lan Metric 0 0 0 Metric FFFFFF 00000000	
192.168.101.17 192.168.11.198 tive IPv4-Routes Network wan lan wan tive IPv6-Routes Network loopback loopback loopback loopback	Target 0.0.0.0/0 192.168.10/24 192.168.101/24 192.168.101/24 192.168.01.0/24	160:77:82:55:1a IPv4-Gateway 192:168.101.17 0.0.0 0.0.0 192:168.101.17 0.0.0 0.0.0.0 192:168.101.17 0.0.0.0 0.0.0.0 0.0.0.0 192:168.101.17 0.0.0.0 0.0.0.0 0.0 0.0.0 0.0.0 0.0.0 0.0	br-lan	
192.168.101.17 192.168.1.198 Network wan lan wan tive IPv6-Routes Network loopback loopback loopback loopback lan wan	Target 38 0.0.0.0/0 192.168.10/24 192.168.10/24 192.168.101.0/24 Target 0:0:0:0:0:0:0:0:0 0:0:0:0:0:0:0:0:0 FF00:0:0:0:0:0:0:0 FF00:0:0:0:0:0:0:0 FF00:0:0:0:0:0:0:0	:60:77:82:55:1a IPv4-Gateway 192:168:101.17 0.0.0.0 0.0.0.0 IPv6-Gateway 0:0:0:0:0:0:0:0/0 0:0:0:0:0:0:0:0/0 0:0:0:0:0:0:0:0/0 0:0:0:0:0:0:0:0/0	br-lan Metric 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Figure 12-19. Status Routes Screen

12.1.4 Pings and Other Network Diagnostics

The EN-4000 can use a ping, route tracing, or nslookup to test or resolve connections. Do the following to test a connection:

- 1 On the EN-4000 management system, select the **Network** tab.
- 2 Under Networks, select the Diagnostics tab.

The Diagnostics Screen is displayed (Figure 12-20).

Figure 12-20. Diagnostics Screen

encor <mark>e•n</mark> etworks						Changes: 0
Status System Network Statistics	Logout					
Interfaces DHCP and DNS Hostnames	Static Routes Firewall	Diagnostics	QoS Configure Diagnostics	MAC Device Info Overrides	Multiwan	
Diagnostics Network Utilities encorenetworks.com IPv4 I Ping	encorenet 🗈 Tracen Install ipu	works.com bute ils-traceroute6 fc	or IPv6 traceroute	encorenetworks.com		

3 Look at the ping set-up area on the left of the screen (Figure 12-21), under the heading **Network Utilities**.

Figure 12-21. Ping Set-Up Area (Detail of Diagnostics Screen)

Network Utilities	
encorenetworks.com	
IPv4	

4 In the top field, enter the ping destination.

Note: The destination can be entered as an IP address or as a URL (a website path and name).

5 In the IP selection box below the field, pull down a menu to select IPv4 or IPv6.

Note: If you typed an IP address in Step 4, the IP version you select here must match that IP address's format.

6 In the action box below the field, select the **Ping** button.

If the ping is successful, the screen displays ping statistics, indicating that the VPN tunnel is active (Figure 12-22).



encor	e-network	ĸs									Changes: 0
Status	System Network	Statistics	Logout								
Interface	s DHCP and DNS	Hostnames	Static Routes	Firewall	Diagnostics	QoS	Configure Diagnostics	MAC Device Info Overrides	MWAN3 Multi-WAN	Multiwan	_
Diagnos	tics										
Netwo	k Utilities										
encorenet	works.com			encorenetwor	ks.com		_	encorrenetworks.com			
IPv4 🖵	D Ping			Tracerout	e			Nslookup			
				Install iput	ils-traceroute6	for IPv6	5 traceroute				
PING en	corenetworks.com (74.50.25.147): 56 data byt	es							
64 byte 64 byte	from 74.50.25.14 from 74.50.25.14	7: seq=0 ttl: 7: seq=1 ttl:	=54 time=188.9 =54 time=159.3	95 ms 45 ms							
64 byte 64 byte	s from 74.50.25.14 s from 74.50.25.14	7: seq=2 ttl: 7: seq=4 ttl:	=54 time=171.0 =54 time=182.0	24 ms 60 ms							
enc 5 packer round-t	prenetworks.com pi ts transmitted, 4 rip min/avg/max =	ng statistic packets rece 159.345/175.	s ived, 20% pac) 356/188.995 ms	et loss							

 If the ping is unsuccessful, the screen indicates that no acknowledgments were returned. That means that there is no communication (Figure 12-23).



encore	network	s									Changes: 0
Status Sy	vstem Network	Statistics	Logout								
Interfaces	DHCP and DNS	Hostnames	Static Routes	Firewall	Diagnostics	QoS	Configure Diagnostics	MAC Device Info Overrides	MWAN3 Multi-WAN	Multiwan	
Diagnostic	cs										
Network	Utilities										
encorenetwor	ks com			encorenetwork	(s.com		_	encorenetworks.com			
IPv4 🖵 🚺	Ping			Tracerout	e			Nslookup			
				Install iput	ils-traceroute6	for IPv6	traceroute				
PING encor encore 5 packets	enetworks.com (7 enetworks.com pir transmitted, 0 r	74.50.25.147 ng statistic backets rece): 56 data byt s ived, 100% pag	tes							

7 If the ping is unsuccessful, check the connections and IP address, and repeat Step 4 through Step 6.

12.1.5 Firewall Statistics

Select Status, Firewall to see the EN-4000's firewall configuration.

Note: The EN-4000 Firewall Status Screen (Figure 12-24 through Figure 12-25) is a single screen that you can scroll through; it is shown here in segments across the printed page.

										Chan
core	netw	orks								
atus S	ystem Ne	etwork Statistics	s Logout							
verview	Firewall	Routes Syste	m Log Kernel Log Pro	cesses	Realtime (Graphs	_	_		
ewall S	status									
e <u>Reset (</u> • <u>Reset (</u>	Counters t Firewall									
able: Filte	er									
hain <i>INP</i>	UT (Policy:	ACCEPT, Packets	s: 0, Traffic: 0.00 B)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	257150	17.41 MB	ACCEPT	all			*	0.0.0.0/0	0.0.0/0	ctstate RELATED, ESTABLISHED
2	232134	14.39 MB	ACCEPT syn_flood	all		lo *		0.0.0.0/0	0.0.0/0	ton flags 0v17/0v00
4	194797	21.51 MB	input_rule	all			*	0.0.0.0/0	0.0.0/0	
5	194796	21.51 MB	input	all		*	*	0.0.0.0/0	0.0.0/0	•
Chain FOR	RWARD (Pol	licy: DROP, Pack	ets: 0, Traffic: 0.00 B)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	287099	199.59 MB	ACCEPT	all		•	*	0.0.0/0	0.0.0/0	ctstate RELATED, ESTABLISHED
2	9382	449.78 KB	forward	all		*	*	0.0.0.0/0	0.0.0.0/0	-
4	0	0.00 B	reject	all			*	0.0.0.0/0	0.0.0.0/0	
hain OU		ACCEPT Back	ate: 0 Traffic: 0 00 B)							
Rule #	Plets.	Traffic	Target	Prot	Flags	In	Out	Source	Destination	Ontions
1	256728	19.87 MB	ACCEPT	all			*	0.0.0.0/0	0.0.0/0	ctstate RELATED.ESTABLISHED
2	232134	14.39 MB	ACCEPT	all			lo	0.0.0.0/0	0.0.0/0	-
3	6605	611.18 KB	output_rule	all		*	*	0.0.0.0/0	0.0.0/0	-
4	6605	611.10 KB	output	dii				0.0.0.0/0	0.0.0.0/0	-
hain for	ward (Refe	rences: 1)			_			_		
Kule #	PKts.	0.00 B	Target	Prot.	Flags	in eth0	*	0.0.0.0/0	Destination	Options
2	9382	449.78 KB	zone lan forward	all		br-lan		0.0.0.0/0	0.0.0.0/0	-
hain <i>inp</i> i	ut (Referen	nces: 1)								
Rule #	Pkts.	Traffic	Target	Prot.	Flags	În	Ōut	Source	Destination	Öptions
1	6605	611.18 KB	zone lan ACCEPT	all		*	*	0.0.0.0/0	0.0.0/0	
2	5447	339.04 KB	zone wan ACCEPT	all		*	*	0.0.0.0/0	0.0.0/0	-
hain <i>rej</i> e	ect (Refere	nces: 5)								
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	18	6.64 KB	REJECT	tcp		*	*	0.0.0/0	0.0.0/0	reject-with tcp-reset
2	100/02	20.79 MB	REJECT	dii				0.0.0/0	0.0.0.0/0	reject-with icmp-port-unreachable
nain syn	_flood (Rei	Terences: 1)	Taraat	Deal	Ele er:	-	0	6	Destination	0-1
kule #	43	2 18 KB	RETURN	Prot.	Flags	*	*	0.0.0.0/0	0.0.0.0/0	Uptions ton flags:0x17/0x02 limit: avg 25/sec hvort 50
2	0	0.00 B	DROP	all				0.0.0.0/0	0.0.0.0/0	
hain <i>zon</i>	e_lan (Ref	erences: 1)								
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	5501	563.81 KB	input_lan	all		*	*	0.0.0.0/0	0.0.0.0/0	•
2	5501	563.81 KB	zone lan ACCEPT	all		*	*	0.0.0.0/0	0.0.0/0	
Chain <i>zon</i>	ne_lan_ACCI	EPT (References	: 2)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1 2	1158 5501	272.14 KB 563.81 KB	ACCEPT ACCEPT	all		* <u>br</u> -lan	br-lan *	0.0.0.0/0	0.0.0.0/0 0.0.0.0/0	-
-			-			<u></u>				
Chain zon	ne_lan_DRO	DP (References:	0) T	P+	cl	-		C.	Deaties	0-14
Kule #	Pkts.	0.00 B	l arget	Prot.	Flags	in *	Out	Source 0.0.0.0/0	0.0.0.0/0	Options
2	0	0.00 B	DROP	all		br-lan	*	0.0.0.0/0	0.0.0.0/0	-
chain zon	ne lan RF1	ECT (References	: 1)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	0	0.00 B	reject	all		*	br-lan	0.0.0.0/0	0.0.0/0	
2	0	0.00 B	reject	all		br-lan		0.0.0.0/0	0.0.0/0	

Figure 12-24. Firewall Status Screen (Part 1 of 2)

Figure 12-25. Firewall Status Screen (Part 2 of 2)

Rule #	Dist.									
1 2 2	PKts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
2	9382	449.78 KB	zone wan ACCEPT	all		*	*	0.0.0/0	0.0.0/0	
3	0	0.00 B	zone lan REJECT	all		*	*	0.0.0.0/0	0.0.0.0/0	-
ain <i>zone</i> _	wan (Refe	erences: 1)								
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	505	164.49 KB	ACCEPT	udp				0.0.0.0/0	0.0.0/0	udp dpt:68
2	0	0.00 B	ACCEPT	all				0.0.0.0/0	0.0.0.0/0	icmp type 8
4	188780	20.79 MB	zone wan REJECT	all				0.0.0.0/0	0.0.0.0/0	-
nain zone_	_wan_ACCE	PT (References:	2)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	14829	788.82 KB	ACCEPT	all		* ath0	eth0 *	0.0.0/0	0.0.0.0/0	
-	Ū	0.00 0	ACCENT			0010		0.0.0.0,0	0.0.0.0,0	
hain <i>zone</i> _	_wan_DRO	P (References: 0))							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	0	0.00 B	DROP	all			eth0	0.0.0.0/0	0.0.0/0	
2	0	0.00 B	DROP	all		eth0	-	0.0.0.0/0	0.0.0.0/0	-
hain zone	_wan_REJE	CT (References:	2)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	0	0.00 B	reject	all		*	eth0	0.0.0/0	0.0.0.0/0	
2	188780	20.79 MB	reject	all		eth0	*	0.0.0.0/0	0.0.0/0	
hain zono	wan form	ard (References	e 1)							
	_wan_rorw	Traffi-	Taxat	Dech	Ela e-	T.e.	0.1	Sector	Deskinster	0=*
1 1	O D	0.00 B	forwarding wan	Prot.	riags	*	*	0.0.0 0/0	0.0.0 0/0	- uptions
2	0	0.00 B	zone wan REJECT	all				0.0.0.0/0	0.0.0.0/0	-
ible: NAT hain PRER Rule #	Pkts.	olicy: ACCEPT, Pa Traffic	ackets: 197503, Traffic: : Target	21.39 MB) Prot.	Flags	In	Out	Source	Destination	Options
2	189088	20.88 MB	zone wan prerouting	all		eth0		0.0.0.0/0	0.0.0.0/0	-
3	8419	518.82 KB	zone lan prerouting	all		br-lan	*	0.0.0.0/0	0.0.0.0/0	-
hain POST	TROUTING	Policy: ACCEPT, I	Packets: 232753, Traffic	: 14.54 MB)					
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	242787	15.12 MB	postrouting_rule	all		*	*	0.0.0.0/0	0.0.0/0	
2	10034 619	590.56 KB	zone wan nat	all		*	eth0 br-lac	0.0.0.0/0	0.0.0.0/0	
5	019	233.00 KD	2011C_Idit_Nat	all			ornan	0.0.0.0/0	0.0.0.0/0	
hain <i>zone</i>	e_lan_prer	outing (Referenc	es: 1)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	8419	518.82 KB	prerouting_lan	all		*	*	0.0.0.0/0	0.0.0/0	•
		(0.6								
nain zone	=_wan_nat	(References: 1)			51	-		-		
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
	10034	530.30 KB	MADQUENADE	aii				0.0.0.0/0	0.0.0.0/0	
hain <i>zone</i>	e_wan_prei	outing (Referen	ces: 1)							
Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	189088	20.88 MB	prerouting_wan	all		*	*	0.0.0.0/0	0.0.0.0/0	
able: Mangl	de la									
	le									
hain FORM	WARD (Poli	cy: ACCEPT, Pack	ets: 296481, Traffic: 20().03 MB)						
hain FORM	WARD (Poli Pkts.	c y: ACCEPT, Pack Traffic	ets: 296481, Traffic: 200 Target	0.03 MB) Prot.	Flags	In	Out	Source	Destination	Options
hain FORM Rule # 1	WARD (Poli Pkts. 296481	cy: ACCEPT, Pack Traffic 200.03 MB	e ts: 296481, Traffic: 20 (Target <u>zone wan MSSFIX</u>	0.03 MB) Prot. all	Flags	In *	Out *	Source 0.0.0.0/0	Destination 0.0.0.0/0	Options -
hain FORV Rule # 1	WARD (Poli Pkts. 296481	cy: ACCEPT, Pack Traffic 200.03 MB	ets: 296481, Traffic: 200 Target <u>zone wan MSSFIX</u>	D.03 MB) Prot. all	Flags 	In *	Out *	Source 0.0.0.0/0	Destination 0.0.0.0/0	Options -
hain FORV Rule # 1 hain qos_	WARD (Poli Pkts. 296481 Default (R	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0)	kets: 296481, Traffic: 200 Target <u>zone wan MSSFIX</u>	D.03 MB) Prot. all	Flags 	In *	Out *	Source 0.0.0.0/0	Destination 0.0.0.0/0	Options -
hain FORV Rule # 1 hain qos_, Rule #	WARD (Poli Pkts. 296481 Default (Re Pkts.	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic	kets: 296481, Traffic: 200 Target <u>zone wan MSSFIX</u> Target	D.03 MB) Prot. all Prot.	Flags Flags	In * In	Out * Out	Source 0.0.0.0/0 Source	Destination 0.0.0.0/0 Destination	Options - Options
hain <i>FORV</i> Rule # 1 hain <i>qos_</i> . Rule #	WARD (Poli Pkts. 296481 Default (R. Pkts. 0	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B	tets: 296481, Traffic: 200 Target zone wan MSSFIX Target CONNMARK	D.03 MB) Prot. all Prot.	Flags Flags 	In * In *	Out * Out *	Source 0.0.0.0/0 Source 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0	Options - Options CONNARK restors mark 0xff
hain <i>FORV</i> Rule # 1 hain <i>qos_</i> Rule # 1 2 3	WARD (Poli Pkts. 296481 Default (R Pkts. 0 0	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B	tets: 296481, Traffic: 200 Target zone won MSSFIX Target CONNMARK <u>gos Default ct</u> MARK	D.03 MB) Prot. all Prot. all all all	Flags Flags	In * In * *	Out * Out *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/n	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0	Options Options CONNMARK restore mask 0xff mark match 0x/0xff em mark match 0x/0xff em
hain FORV Rule # 1 hain qos_i Rule # 1 2 3 4	WARD (Poli Pkts. 296481 Default (R Pkts. 0 0 0 0	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B	tets: 296481, Traffic: 200 Target Zone wan MSSFIX Target CONNMARK goo Default et MARK MARK	D.03 MB) Prot. all Prot. all all all all all	Flags Flags 	In * In * *	Out * Out * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONMARK restore mask 0xff mark match 0x0/0xff mark match 0x0/0xff mark match 0x0/0xff length 400:63535 MARK and 0xfffff00 mark match 0x2/0xff length 400:63535 MARK and 0xfffff00
hain FORV Rule # 1 Rule # 1 2 3 4 5	WARD (Poli Pkts. 296481 Default (R Pkts. 0 0 0 0 0 0 0	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B	Target Zone wan MSSFIX Target CONIMARK OS Déralt et MARK MARK	D.03 MB) Prot. all all all all udp	Flags Flags Flags 	In * In * *	Out * Out * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONINMARK restore mask 0xff mark match 0x1/0xff length 400:65535 MARK and 0xfffff00 mark match 0x1/0xff length 400:65535 MARK and 0xfffff00 mark match 0x0/0xff length 0500 MARK xee 0x2/0xff
hain FORV Rule # 1 hain qos Rule # 1 2 3 4 5 6	WARD (Poli Pkts. 296481 Default (R Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B	tets: 296481, Traffic: 200 Target Zone wan MSSFIX Target CONIMARK MARK MARK MARK MARK MARK	0.03 MB) Prot. all Prot. all all udp icmp	Flags Flags 	In * In * * *	Out * Out * * *	Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONNMARK restore mask 0xff mark match 0x0/0xff mark match 0x0/0xff model 0x0/65535 MARK and 0xfffff00 mark match 0x0/0xff length 000/65535 MARK and 0xfffff00 mark match 0x0/0xff model 0x00 MARK xate 0x0/0xff MARK xate 0x1/0xff
hain FORV Rule # 1 hain qos Rule # 1 2 3 4 5 6 7	WARD (Poli Pkts. 296481 Default (R Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B	target Zone wan MSSFIX CONUMARK <u>aos Default et</u> MARK MARK MARK MARK	D.03 MB) Prot. all Prot. all all all udp icmp tcp	Flags Flags 	In * In * * * *	Out * Out * * * * * * * * * * * * * * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONINMARK restore mask 0xdf mark match 0x/0xdf mark match 0x/0xdf length 000:65535 MARK and 0xdffff00 mark match 0x/0xdf length 000:65535 MARK and 0xdffff00 mark match 0x/0xdf length 000:65535 MARK and 0xdffff00 MARK xeet 0x1/0xdf MARK xeet 0x1/0xdf mark match 0x/0xdf to p pts:1024:65535 dps:1024:65535
hain FORV Rule # 1 hain qos_, Rule # 1 2 3 4 5 6 7 8	WARD (Poli Pkts. 296481 Default (R. Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B	Target Zone wan MSSFIX Target CONNMARK <u>GO Default et</u> MARK MARK MARK MARK MARK	D.03 MB) Prot. all Prot. all all all udp icmp icmp udp	Flags Flags Flags 	In * ! * * * *	Out * Out * * * * * * * * * * * * * * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options CONIVMARK restore mask 0x6f mark match 0x0/0x6f mark match 0x0/0x6f length 400:65333 MARK and 0xffff000 mark match 0x0/0x6f length 00:65333 MARK and 0xffff000 mark match 0x0/0x6f length 00:65333 MARK and 0xffff000 MARK xaet 0x1/0xff MARK xaet 0x1/0xff mark match 0x0/0xff dog stor: 1024:65533 MARK xaet 0x4/0xff
thain FORV Rule # 1 hain qos Rule # 1 2 3 4 5 6 7 8	WARD (Poli Pkts. 296481 Default (R. Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B	target Zone wan MSSTX Target CONIMARK <u>oos Default at</u> MARK MARK MARK MARK MARK MARK	Prot. all Prot. all all all all udp icmp tcp udp	Flags Flags 	In * In * * * *	Out * * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONNMARK restore mask 0x6f mark match 0x/0x6f mark match 0x/0x6f mark match 0x/0x7f length 800:65353 MARK and 0xfffff00 mark match 0x/0x7f length 800:65353 MARK and 0xfffff00 mark match 0x0/0x7f length 800:65353 MARK and 0xfffff00 mark match 0x0/0x7f length 800:65353 MARK and 0xfffff00 mark match 0x0/0x7f length 800:65353 depsi 1024:65535 mark match 0x0/0x7f length 8024:65535 MARK xate 0x4/0x7f length 0:128 mark match 0x0/0x7f length 80:0x97Mark
hain FORV Rule # 1 hain qos Rule # 1 2 3 4 5 6 7 7 8 9	WARD (Poli Pkts. 296481 Default (R. Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B	tets: 296481, Traffic: 200 Target Zone wan MSSFIX CONIMARK gos Default et MARK MARK MARK MARK MARK MARK MARK	D.03 MB) Prot. all all all udp icmp udp udp udp	Flags Flags -	In * * * * * * *	Out * Out * * * * * * * * * * * * * * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONIMARK restore mask 0xff mark match 0x/10xff length 00065333 MARK and 0xfffff00 mark match 0x/10xff length 00065333 MARK and 0xfffff00 mark match 0x/10xff length 00065333 MARK and 0xfffff00 mark match 0x0/10xff top apts 1102465335 dpts 11024655335 MARK xset 0x1/0xff mark match 0x0/10xff top apts 1102465335 dpts 11024655335 MARK xset 0x1/0xff MARK xset 0x1/0xff
hain FORV Rule # 1 hain qos_ Rule # 1 2 3 4 5 6 7 7 8 9 10	WARD (Poli Pkts. 296481 Default (R Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B 0.00 B	Target Zone wan MSSFIX Target CONNMARK gos Default at MARK MARK MARK MARK MARK MARK	D.03 MB) Prot. all all all all udp icmp udp udp tcp udp tcp	Flags Flags 	In * * * * * * *	Out * Out * * * * * * * * * * * * * * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options CONINARIK restore mask 0xff mark match 0x0/0xff length 400:65353 MARK and 0xffff000 mark match 0x0/0xff length 400:65353 MARK and 0xfffff000 mark match 0x0/0xff length 0x100xf MARK xeet 0x2/0xff MARK xset 0x1/0xff mark match 0x0/0xff length 1025025 dgts:1024:65335 MARK xset 0x2/0xff mark match 0x0/0xff length 1024:05335 dgts:1024:65335 MARK xset 0x0/0xff mark match 0x0/0xff length 0x0/0xff length 0:128 mark match 0x0/0xff length 0x3F/0x10 MARK xset 0x70/0xff length 0:128 mark match 0x0/0xff length 0x3F/0x10 MARK
hain FORV Rule # 1 hain qos Rule # 1 2 3 4 5 6 6 7 8 9 10	WARD (Poli Pkts. 296481 Default (R. Pkts. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cy: ACCEPT, Pack Traffic 200.03 MB eferences: 0) Traffic 0.00 B 0.00 B	tets: 296481, Traffic: 200 Target Zone: wan. MSSFIX Target CONIMARK OSD Default at MARK MARK MARK MARK MARK MARK	D.03 MB) Prot. all all all udp icmp tcp udp tcp tcp	Flags Flags -	In * * * * * * * *	Out * Out * * * * * * * * * * * * * * * * * * *	Source 0.0.0.0/0 Source 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Destination 0.0.0.0/0 Destination 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	Options Options CONIVMARK reason mask Odf mark match Ox1/Oxfl length 400/65335 MARK and OxffmT00 mark match Ox1/Oxfl length 400/65335 MARK and OxffmT00 mark match Ox0/Oxfl length 500 MARK see Ox2/Oxfl MARK saet Ox1/Oxfl mark match 0x0/Oxfl pro plasue Ox2/Oxfl MARK saet Ox1/Oxfl length 0:128 mark match 10x0/Oxfl pro plage/0x3F/0x10 MARK saet 0x1/Oxfl length 0:128 mark match 10x0/Oxfl pro plage/0x3F/0x10 MARK
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12.1.6 System Processes

Select **Status**, **Processes** to see the management system processes that are running (Figure 12-26).

~ or	en	etworks					
tatus	Syste	m Network Statistics Logout	_	_	_	_	
VEIVIE	w rite	mai koules aystem bug kerner bug Processes kealume graphs					_
oces	ses						
s list ç	gives an	overview over currently running system processes and their status.					
PID	Owner	Command	CPU usage (%)	Memory usage (%)	Hang Up	Terminate	Kill
1	root	init	0%	0%	& Hang Up	X Terminate	🙆 Kil
2	root	[kthreadd]	0%	0%	# Hang Up	X Terminate	😂 Ki
3	root	[ksoftirqd/0]	0%	0%	🛱 Hang Up	\star Terminate	🙆 Ki
s	root	[kworker/0:0H]	0%	0%	🧬 Hang Up	🗶 Terminate	🥴 Ki
6	root	[kworker/u:0]	0%	0%	🏾 Hang Up	💌 Terminate	🙁 Kil
7	root	[kworker/u:0H]	0%	0%	🕫 Hang Up	💌 Terminate	🇐 Ki
8	root	[khelper]	0%	0%	🥔 Hang Up	🙁 Terminate	🧐 Ki
9	root	[kworker/u:1]	0%6	0%	🕫 Hang Up	📧 Terminate	😂 Ki
112	root	[bdi-default]	0%	0%	🖉 Hang Up	X Terminate	🇐 Kil
114	root	[kblockd]	0%	0%	🛱 Hang Up	X Terminate	🧐 Ki
125	root	[khubd]	0%	0%	Hang Up	🙁 Terminate	😂 Ki
152	root	[kswapd0]	0%	0%	Hang Up	X Terminate	🔕 Ki
153	root	[fsnotify_mark]	0%	0%	🛱 Hang Up	X Terminate	🎱 Ki
686	root	[mtdblock0]	0%	0%	Hang Up	X Terminate	🔘 Ki
691	root	[mtdblock1]	0%	0%	# Hang Up	X Terminate	😺 Ki
696	root	[mtdblock2]	0%	0%	S Hang Up	X Terminate	🙂 Kı
731	root	[kworker/0:1]	0%	0%	i Hang Up	X Terminate	🥴 Ki
735	root	[deferwq]	0%	0%	2 Hang Up	X Terminate	O Ki
742	root	[ubi_bgt0d]	0%	0%	# Hang Up	X Terminate	🤤 Ki
744	root	[kworker/0:2]	0%	0%	i∉ Hang Up	X Terminate	C Ki
419	root	[ubits_bgt0_0]	0%	0%	# Hang Up	I erminate	O KI
423	root	ing facested	0%	0%	# Hang Up	Terminate	
465	root	[crypto]	0%	0%	A Hang Up	Terminate	0 Ki
603	root	/sbin/sysiogd -i 8 -C16	076	076	Al Hang Lip	Terminate	
607	root	/sbin/hotplug2overridepersistentset-rules-file /etc/hotplug2.rulesset-coldplug-cmd /sbin/udevtrigger max-children 1	0%	0%	Hang Up	X Terminate	S Ki
614	root	/sbin/procd	0%	0%	S Hang Up	X Terminate	😂 Kil
617	root	ubusd	0%	0%	& Hang Up	X Terminate	🕴 Kil
619	root	/sbin/netifd	0%	0%	🈂 Hang Up	💌 Terminate	🥥 Kil
701	root	udhepe -p /var/run/udhepe-eth0.pid -s /lib/netifd/dhep.script -f -t 0 -i eth0 -C	0%	0%	🛱 Hang Up	X Terminate	🍪 Kil
279	root	/usr/sbin/dropbear -F -P /var/run/dropbear.1.pid -p 22	0%	0%	🖉 Hang Up	🙁 Terminate	🥴 Kil
399	root	/usr/sbin/snmpd -Lf /dev/null -p /var/run/snmpd.pid	0%	1%	🍰 Hang Up	💌 Terminate	🅲 Kil
424	root	/usr/sbin/tftpd-hpa -l -s /var/tftpd-hpa	0%	0%	🖉 Hang Up	💌 Terminate	🎯 Kil
433	root	/usr/sbin/uhttpd -f -h /www -r EN4000_Use_and_Test -x /cgi-bin -t 60 -T 30 -A 1 -n 3 -R -p 0.0.0.0 80 -C /etc/uhttpd.ert -K /etc/uhttpd.key -s 0.0.0.0 443	0%	0%	🖉 Hang Up	X Terminate	😂 Ki
614	nobody	/usr/sbin/dnsmasq -C /var/etc/dnsmasq.conf	0%	0%	# Hang Up	X Terminate	🥴 Kil
652	root	/usr/sbin/smbd -D	0%	1%	Hang Up	X Terminate	🥴 Kil
654	root	/usr/sbin/nmbd -D	0%	1%	# Hang Up	Terminate	🥥 Kil
682	root	/usr/sbin/collectd	0%	3%	# Hang Up	Terminate	G Ki
1093	root	endefaultsd -y -u /dev/ttyUS82 -i wwan0 0 0x26 w	0%	0%	Hang Up	Terminate	G Kil
705	root	/spin/watchdog -t 5 /dev/watchdog	0%	0%	Hang Up	Terminate	CO KI
2512	root	/uar/son/ntpa -n -p u.time-a.nist.gov	0%	194	P Hang Up	Terminate	S KI
2513	root	sh -c /bin/busybox too -bn1	0%	a 78 0%	# Hang Up	X Terminate	
2213		an -c /one basybox top -onit	0.70	0.10	is riang up		a Kil

Figure	12-26.	System	Processes
iguic	12 20.	System	1100003505

12.1.7 Logs

You can review information logged by the system. See Figure 12-27, Kernel Log (Part 1 of 3), through Figure 12-29, Kernel Log (Part 3 of 3).

Figure 12-27. Kernel Log (Part 1 of 3) (Sample; Partial Listing)

tus System	Network Statistics Logout
erview Firew	ill Routes System Log Kernel Log Processes Realtime Graphs
nel Log	
0.0000001	Booting Linux on physical CPU 0
0.000000	Linux version 3.7.5 (root8debian-EN4000) (gcc version 4.6.4 20121210 (prerelease) (Linaro GCC 4.6-2012.12)) #50 Tue Mar 26 08:56:3 CPU: Fercoen 88FR141 [5625131] revision (ARM/STE), ar=00053977
0.000000	CPU: VIVT data cache, VIVT instruction cache
0.000000]	Machine: Marvell Kirkwood (Flattened Device Tree), model: Encore Networks NE4000 Memory policy: ECC disabled, Data cache writeback
0.000000	On node 0 totalpages: 65366
0.000000	Normal zone: 512 pages used for memoap
0.000000]	Normal zone: 6 Dages reserved Normal zone: 65024 pages, LTFO batch:15
0.000000	pcpu-alloc: 50 r0 d32768 u32768 alloc=1*32768
0.000000	Built 1 zonelists in Zone order, mobility grouping on. Total pages 65024
0.0000000	<pre>xernel commana line: console=ttys0,11500 mtoparts=orion_nana:0xe0000g0x0(uboot),0x20000g0xe0000(uboot_env),-g0x100000(root) ubl.mt FID hash table entries: 1024 (order: 0, 4096 bytes)</pre>
0.000000	Dentry cache hash table entries: 32768 (order: 5, 131072 bytes) Inde-cache hash table entries: 16384 (order: 4, 65536 bytes)
0.000000	Memory: 256MB = 256MB total
0.0000000	Memory: ZS5880K/ZS5880K available, 6464K reserved, 0K nignmem Virtual kernel memory layout:
0.000000	vector : 0xffff0000 - 0xffff0000 (4 kB) fiymp, 0xffff0000 - 0xffff0000 (89 kB)
0.000000	Vmalloc : 0xd0800000 - 0xff000000 (744 MB)
0.0000000	lowmem : 0xc0000000 - 0xc0000000 (256 MB) modules : 0xbf000000 - 0xc0000000 (16 MB)
0.000000	.text: 0xc0008000 - 0xc039e000 (3672 KB)
0.000000	.data : 0xc03c2000 - 0xc03e3ae0 (135 kB)
0.000000	.bss : 0xc03e3b04 - 0xc040eaa0 (172 kB) NR IRQS:114
0.000000	sched clock: 32 bits at 166MHz, resolution 5ns, wraps every 25769ms
17.896808]	calibrating delay 100pt. Social Bogonics (10)-452/04) pid_max: default: S2768 minimum: 301
17.896927]	Mount-cache hash table entries: 512 CPU: Testing write buffer coherency: ok
17.898128	Setting up static identity map for 0x2d3d48 - 0x2d3d84
17.900759]	NEI: Registered protocol ramily 10 DMA: preallocated 1024 KiB pool for atomic coherent allocations
17.903459	Kirkwaad: MV88F6281-Al, TCLK=166666667.
17.903526	Feroceon L2: Cache support initialised.
17.904580	Initial MPP regs: 0111111 11113311 3333111 33333333 20023333 22200222 000000002 final MPP regs: 0111111 1113311 3333111 33333333 20023333 22200222 00000002
17.907556	Kirkwood FCIe port 0:
17.907575	PCI: bus0 uses PCIe port 0
17.907802	FCI host bridge to bus 0000:00 pci bus 0000:00: root bus resource [mem 0xe0000000-0xe7ffffff]
17.907841	pci bus 0000:00: root bus resource [io 0x1000-0xfff]]
17.907893	pci_Dolo000000.00.00. [llab:6201] type 00 class 0x0508000
17.907921	pci 0000:00:00.0 reg 10: [mem 0xd000000-0xd00ffff 64bit pref] pci 0000:00:00.0 reg 18: [mem 0x0000000-0x00fffff]
17.907983	pc1 0000:00:00:01 01 1028124041 type 01 class 0x060400
17.908125	poi 0000/00/00/00 D D
17.908138	pci 0000:00:01.0: PME# supported from DD D1 D2 D3hot D3cold PCI: busc: Fast back to back transfers disabled
17.908201	pci 0000:00:01.0: bridge configuration invalid ([bus 00-00]), reconfiguring
17.908326	pci 0000/01/01/01 izasizavaj type ol class oxocado pci 0000/01/01/01 supports Dl D2
17.908432	pci 0000:01:01.0: PME# supported from D0 D1 D2 D3hot D3cold
17.908591	pol 0000:01:02.0: supports D1 D2
17.908604	pc1 0000:01:02.0: PME# supported from D0 D1 D2 D3hot D3cold pc1 0000:01:03.0: [I2dd:2404] type 01 class 0x060400
17.908754	pci 0000:01:03.0; supports D1 D2 pci 0000:01:03.0; HPE5 supported from D0 D1 D2 D3bor D3cold
17.908855	PCI: busi: Fast back to back transfers disabled
17.908870	pci 0000;01:01.0: bridge configuration invalid (bus 00-001), reconfiguring pci 0000;01:02.0: bridge configuration invalid (bus 00-001), reconfiguring
17.908905	pci 0000:01:03.0: bridge configuration invalid ([bus 00-00]), reconfiguring
17.908992	ru: pusz; rast pack to pack transfers enabled poi_bus 000102; busz,res; [bus 02-ff] end is updated to 02
17.909096	PCI: bus3: Fast back to back transfers enabled not bus 000003. bus res: bus 0.3 for the control bus 000003. bus 0.3 ffl end is undered to 0.3
17.909197	PCIT bus4: Fast back to back transfers enabled
17.909211	pci bus ouvoruv: busn res: [bus 04-f1] end is updated to 04 pci bus 0000:01; busn res: [bus 01-f1] end is updated to 04
17.909244	pcl_bus 0000:00: busn_res: [bus 00-ft] end is updated to 04
17.910799	pci 0000:1:02.0: PCI bridge to [bus 05]
17.910820	pci 0000:01:03.0: PCI bridge to [bus 04] pci 0000:00:01.0: PCI bridge to [bus 04]
17.910862	PCI: enabling device 0000:00:01.0 (0140 -> 0148)
17.910878	PUL: enabling device 0000101:01.0 (0140 -> 0143) PCI: enabling device 00001:01:02.0 (0140 -> 0143)
17.910905	FCI: enabling device 0000:01:03.0 (0140 -> 0143) bio: create alab (victor) at 0
17.919536	SCI subsystem initialized
17.920228	usboore: registered new interface driver usbfs usboore: registered new interface driver hub
17.920574	ubboce: registered new device driver usb
17.922082	awitching to clocksource orion clocksource NET: Registered protocol family 2
17.924465	TCP established hash table entries: 8192 (order: 4, 65536 bytes) TCP bind hash table entries: 8192 (order: 3, 32766 bytes)
_/	The many representation of the former of prior places

Figure 12-28. Kernel Log (Part 2 of 3)

Sample; Partial Listing)

<section-header>

Figure 12-29. Kernel Log (Part 3 of 3)

Sample; Partial Listing)

i li	25.689559 i2c /dev entries driver
i i	25.757769] usbcore: registered new interface driver usbserial
i	25.763678] usbcore: registered new interface driver usbserial generic
i	25.770229] usbserial: USB Serial support registered for generic
i	25.8068741 usbcore: registered new interface driver option
l li	25.812529] usbserial: USB Serial support registered for GSM modem (1-port)
i li	25.831653] usbcore: registered new interface driver goserial
i i	25.837488] usbserial: USB Serial support registered for Qualcomm USB modem
l i	25.857286] usbcore: registered new interface driver sierra
1	25.862950] usbserial: USB Serial support registered for Sierra USB modem
1	25.973838] u32 classifier
1	25.976539] Performance counters on
1	25.980349] input device check on
1	25.984014] Actions configured
1	26.008323] Mirror/redirect action on
[28.347378] mv643xx_eth_port mv643xx_eth_port.1 eth1: link up, 100 Mb/s, full duplex, flow control disabled
1	28.358093] device eth1 entered promiscuous mode
1	28.363274] br-lan: port 1(eth1) entered forwarding state
1	28.368683] br-lan: port 1(eth1) entered forwarding state
1	28.404511] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
1	30.092464] mv643xx_eth_port mv643xx_eth_port.0 eth0: link up, 100 Mb/s, full duplex, flow control disabled
1	30.102420] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
1	30.362122] br-lan: port 1(eth1) entered forwarding state

See Figure 12-30, System Log (Part 1 of 2), through Figure 12-31, System Log (Part 2 of 2).

Figure 12-30. System Log (Part 1 of 2) Sample; Partial Listing)

nco	or <mark>e•n</mark> et	works	
Statu	s System	Network Statistics	Logout.
Overv	iew Firewal	Routes System Log	Kernel Log Processes Realtime Graphs
/ste	m Log		
lay	7 13:45:10	EN4000_Use_and_Test	user.info sysinit: Adding custom chains
ay av	7 13:45:10 7 13:45:11	EN4000_Use_and_Test EN4000_Use_and_Test	user.info sysinit: Loading forwardings
ay	7 13:45:11	EN4000 Use and Test	user.info sysinit: Loading rules
ay	7 13:45:11	EN4000 Use and Test	user.info sysinit: Loading redirects
ay av	7 13:45:11	EN4000 Use and Test	user.info sysinit: Dotaing includes
ay	7 13:45:11	EN4000 Use and Test	user.info sysinit: Loading interfaces
ay	7 13:45:11	EN4000_Use_and_Test	user.info firewall: adding wan (eth0) to zone wan
ay	7 13:45:12	EN4000 Use and Test	authoriv.info dropbear[2283]: Not backgrounding
ay	7 13:45:16	EN4000 Use and Test	user notice dnsmasq: DNS rebinding protection is active, will discard upstream RFC1918 responses!
ay	7 13:45:16	EN4000 Use and Test	user.notice dnsmasg: Allowing 127.0.0.0/8 responses
ay	7 13:45:19	EN4000 Use and Test	daemon.info dnsmasq[2618]: compile time options: IPv6 GNU-getopt no-DBus no-i18n no-IDN DHCP no-DHCPv6 no-Lua
lay	7 13:45:19	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCP, IP range 192.168.1.100 192.168.1.249, lease time 12h
ay	7 13:45:19	EN4000 Use and Test	daemon.info dnsmasq[2618]: using local addresses only for domain lan daemon info dnsmasq[2618]: reading /tmr/readly conf auto
lay	7 13:45:19	EN4000 Use and Test	deemon.info dnsmasq[2618]: using nameserver 8.8.8.8\$53
lay	7 13:45:19	EN4000 Use and Test	daemon.info dnsmasq[2618]: using local addresses only for domain lan
lay	7 13:45:19	EN4000 Use and Test	daemon.info dnsmasq[2618]: read /etc/hosts - 1 addresses
ay	7 13:45:20	EN4000 Use and Test	user.info systint: configfile: stat //etc/collectd/conf.d) failed: No such file or directory
lay	7 13:45:20	EN4000_Use_and_Test	user.info sysinit: Could not find plugin iptables.
lay	7 13:45:20	EN4000 Use and Test	user info sysinit: Could not find plugin conntrack.
lay	7 13:45:20	EN4000 Use and Test	user.info systemit: Found a configuration for the `topconns' plugin, but the plugin isn't loaded or didn't reg
lay	7 13:45:20	EN4000 Use and Test	user.info sysinit: Found a configuration for the `topconns' plugin, but the plugin isn't loaded or didn't reg
lay	7 13:45:20	EN4000_Use_and_Test	user.info systinit: Found a configuration for the 'topconns' plugin, but the plugin isn't loaded or didn't reg
lay	7 13:45:20	EN4000 Use and Test	user into systimit: Could not find plugin: recesses.
lay	7 13:45:20	EN4000 Use and Test	user info sysinit: Found a configuration for the 'processes' plugin, but the plugin isn't loaded or didn't re
lay	7 13:45:20	EN4000 Use and Test	user.info sysinit: Found a configuration for the 'processes' plugin, but the plugin isn't loaded or didn't re
lay lav	7 13:45:20	EN4000 Use and Test	user.into systimit: Could not find plugin olsrd.
lay	7 13:45:20	EN4000 Use and Test	user info sysinit: Found a configuration for the 'olsrd' plugin, but the plugin isn't loaded or didn't regist
lay	7 13:45:20	EN4000 Use and Test	user.info sysinit: Found a configuration for the 'olsrd' plugin, but the plugin isn't loaded or didn't regist
nay Nav	7 13:45:20	EN4000_Use_and_lest EN4000_Use_and_Test	user.info sysinit: Could not find plugin memory.
lay	7 13:45:20	EN4000 Use and Test	user.info sysinit: /etc/rc.common: /etc/rc.d/S90smtptrapd: line 103: syntax error: unterminated quoted string
lay	7 13:45:20	EN4000 Use and Test	user.info sysinit: ^M Encore System Daemon version 0.0.1
May Mav	7 13:45:21	EN4000 Use and Test EN4000 Use and Test	user.info sysinit: "Mucl: Entry not found
May	7 13:45:26	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCPREQUEST(br-lan) 192.168.1.198 38:60:77:82:55:1a
May	7 13:45:26	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCPREQUEST (br-lan) 192.168.1.198 38:60:77:82:55:1a
lay Iav	7 13:45:30	EN4000 Use and Test	deemon.info dnsmasg-dncp[2618]: DHCPINFORM(bf=1an) 192.166.1.198 35.60:77.52:55:1a h=p6-2016 . deemon.info dnsmasg-dncp[2618]: DHCPINFORM(bf=1an) 192.168.1.198 35.60:77:82:55:1a
May	7 13:45:30	EN4000_Use_and_Test	daemon.info dnsmasq-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
lay	7 13:46:20	EN4000 Use and Test	user info sysinit: Starting network with 'gmicli -d /dev/cd-wdm0wds-start-network=client-no-release-c
lav	7 13:46:21	EN4000 Use and Test	user.info systemit: error: network start failed, client not allocated
lay	7 13:46:47	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
lay	7 13:46:47	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
nay Mav	7 13:56:50	EN4000 Use and Test	deemon.info dnamaag-dncp[2616]: DHCPACK(br=lan) 192.166.1.198 38:60:77:82:55:18 HP=p6=2016
lay	7 14:00:49	EN4000 Use and Test	daemon.info dnsmasq-dhop[2618]: DHCPREQUEST(br-lan) 192.168.1.198 38:60:77:82:55:1a
lay	7 14:00:49	EN4000_Use_and_Test	daemon.info dnsmasq-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
1ay 1av	7 14:00:53	EN4000 Use and Test EN4000 Use and Test	daemon.info dnsmasg-dnop[2618]: DHCPKEQUEST(DF-lan) 192.168.1.198.38:60:7/182:55:1a
lay	7 14:01:00	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPREQUEST(br-lan) 192.168.1.198 38:60:77:82:55:1a
lay	7 14:01:00	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
ay lav	7 14:01:12	EN4000_Use_and_Test EN4000 Use and Test	uaemon.into unsma5g-unop[/bl5]: DHCFINFORM(DF-1an) 19/1861.1.198 3816017/18215511a (deemon.info dnsma5g-uhop[/bl8]: DHCFACK(DF-1an) 192.168.1.198 3816017718215511a HP-n6-2016
lay	7 14:03:23	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
ay	7 14:03:23	EN4000 Use and Test	daemon.info dnsmasg-dhop[2618]; DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
lay	7 16:27:02	EN4000 Use and Test	<pre>caemon.inro dnsmasq-dhop[2618]: DHCPREQUEST(br-lan) 192.168 1.198 38:60:77:82:55:1a deemon.info dnsmasq-dhop[2618]: DHCPREQUEST[an] 192.168 1.198 38:60:77:82:55:1a H=-n6-2016</pre>
ay	7 16:27:08	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCFINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
lay	7 16:27:08	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
lay	7 16:28:30	EN4000 Use and Test	<pre>daemon.inro dnsmasq-dnorp[z618]; DECPINFORM(br-lan) 192.168 1.198 38:60:77:82:55:1a daemon.info dnsmasq-dhorp[z618]; DECPECK(br-lan) 192.168 1.198 38:60:77:82:55:1a Henrof.com/doc/doc/doc/doc/doc/doc/doc/doc/doc/doc</pre>
ay	7 16:38:32	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
ay	7 16:38:32	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
lay lay	7 16:48:34	EN4000 Use and Test	aaemon.into ansmasq-dhop[2618]; DHCFINFORM(br-lan) 192.168.1.198 38;60;77;82;55;1a (deemon.info.dnsmag-dhop[2618]; DHCPLKC(br-lan) 192,168.1.198 38;60;77:82;55;1a HD-r6-2016
ay	7 16:58:37	EN4000 Use and Test	daemon.info dnsmasq-dhop[2618]: Dherev(ur-an) 122.168.1.198 38:60:77:12:55:1a
fay	7 16:58:37	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
lay	7 17:08:39	EN4000 Use and Test	daemon.inro dnsmasg-dhop[2618]; DECPINFORM(br-lan) 192.168 1.198 38:60:77:82:55:1a
aay May	7 17:18:42	EN4000_Use_and_fest EN4000 Use and Test	uacmon.into unsma5q-uncp[2016]: DnCFACK (DT-1an) 122.1051.1195 3516017/132155118 HP-p6-2016 daemon.info dnsmasq-uhcp[2018]: DhCFMFORM(DT-1an) 192.1681.1195 38160177182155118
lay	7 17:18:42	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:la HP-p6-2016
lay	7 17:28:44	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DECPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
nay Mav	7 17:28:44	EN4000 Use and Test EN4000 Use and Test	aaemon.inro ansmasq-ancp[2018]; DHCFACK(DF-18n) 192.188.1.198 38:60:7/:82:55:18 HP-p6-2016; (daemon.info dnsmasg-dhoc)2618]; DHCFNFORM(Dr-1an) 192.168.1.198 38:60:77:82:55:18
May	7 17:38:47	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
lay	7 18:01:48	EN4000 Use and Test	daemon.info dnsmasq-dhcp[2618]: DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
say Mav	7 18:01:48	EN4000 Use and Test EN4000 Use and Test	<pre>caemon.inro dnsmasq-dhop[2618]: DHCFACK(pr-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016 (deemon.info dnsmasq-dhop[2618]: DHCFACK(pr-lan) 192.168.1.198 38:60:77:82:55:1a</pre>
May	7 18:04:05	EN4000_Use_and_Test	daemon.info dnsmasg-dhop[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
May	7 19:55:49	EN4000 Use and Test	daemon.info dnsmasg-dhcp[2618]: DECPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
May	/ 19:55:49	EN4000_Use_and_Test	daemon.inro dnsmasg-dhcp[2618]: DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016

Figure 12-31. System Log (Part 2 of 2) Sample; Partial Listing)

	May	8 10:44:10	EN4000_Use_and_Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:44:10	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:45:15	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:45:15	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:46:17	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:46:11	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:47:54	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:47:54	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:49:14	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:49:14	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:54:03	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:54:03	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:55:27	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:55:21	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 10:59:10	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 10:59:16	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:05:31	EN4000 Use and Test	daemon.info	dnsmasg-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:05:31	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:09:18	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:09:18	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:15:08	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:15:08	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:16:28	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:16:28	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:19:21	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:19:21	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:22:31	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:22:31	. EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:23:50	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:23:50	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:29:21	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:29:21	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:33:53	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:33:53	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:39:25	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:39:25	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:43:55	EN4000 Use and Test	daemon.info	dnsmasg-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:43:55	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
	May	8 11:45:56	EN4000 Use and Test	user.info f	irewall: adding wan	(eth0) to zone wan
	May	8 11:45:56	EN4000 Use and Test	user.info f	irewall: adding lan	(br-lan) to zone lan
	May	8 11:46:09	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPINFORM(br-lan) 192.168.1.198 38:60:77:82:55:1a
	May	8 11:46:09	EN4000 Use and Test	daemon.info	dnsmasq-dhcp[2618]:	DHCPACK(br-lan) 192.168.1.198 38:60:77:82:55:1a HP-p6-2016
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