EXERCISE 14

## TO ANALYZE THE DIFFERENT TYPES OF SERVERS USING WEBLIZERS

AIM:

To analyse web server log files using Webalizer to generate detailed usage statistics and reports for Apache, Nginx, and other web servers, and to identify traffic patterns, visitor behaviour, and server performance.

ALGORITHM:

1. **Install Webalizer**: Install the tool using package manager (apt/yum) on Linux/Unix system.
2. **Locate Log Files**: Identify web server log files (Apache at /var/log/httpd/access_log, Nginx at /var/log/nginx/access.log).
3. **Configure Webalizer**: Edit configuration file (/etc/webalizer.conf) to specify log file location, output directory, and hostname.
4. **Create Output Directory**: Create directory where HTML reports will be saved (e.g., /var/www/usage).
5. **Run Webalizer**: Execute command webalizer or webalizer -c configfile to process logs.
6. **Parse and Extract Data**: Tool reads log entries, extracts IP addresses, pages accessed, referrers, browsers, timestamps.
7. **Generate Reports**: Creates HTML pages and graphs showing monthly, daily, hourly statistics with tables and charts.
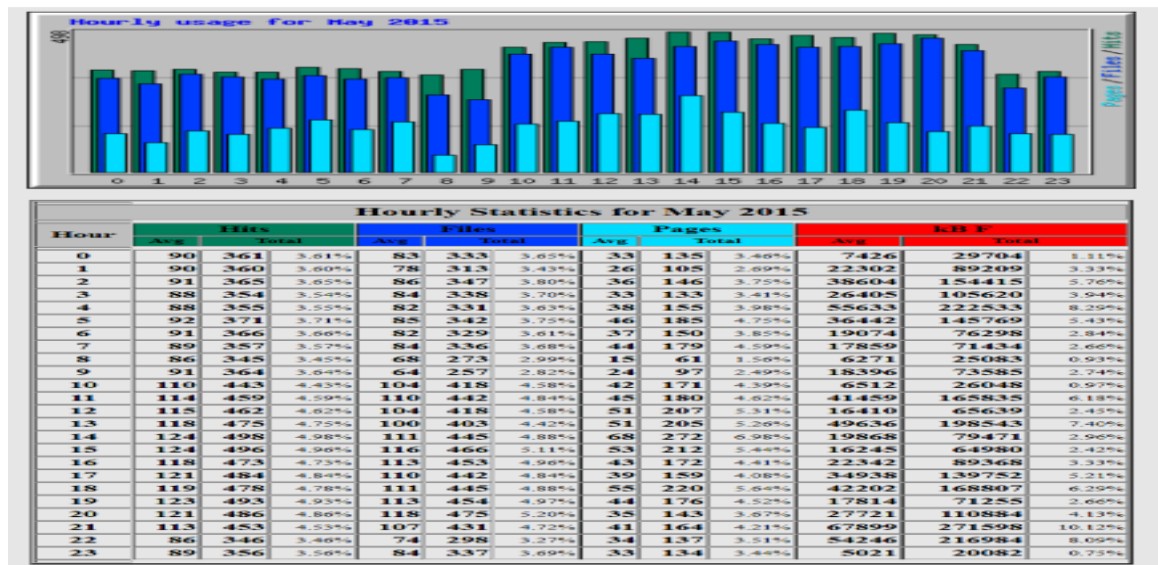8. **View Results**: Access generated HTML reports in browser to view traffic statistics and analyses.

OUTPUT:

Usage statistics for codespaces-14a7ff

Summary by Month
Generated 16-Oct-2025 06:11 UTC
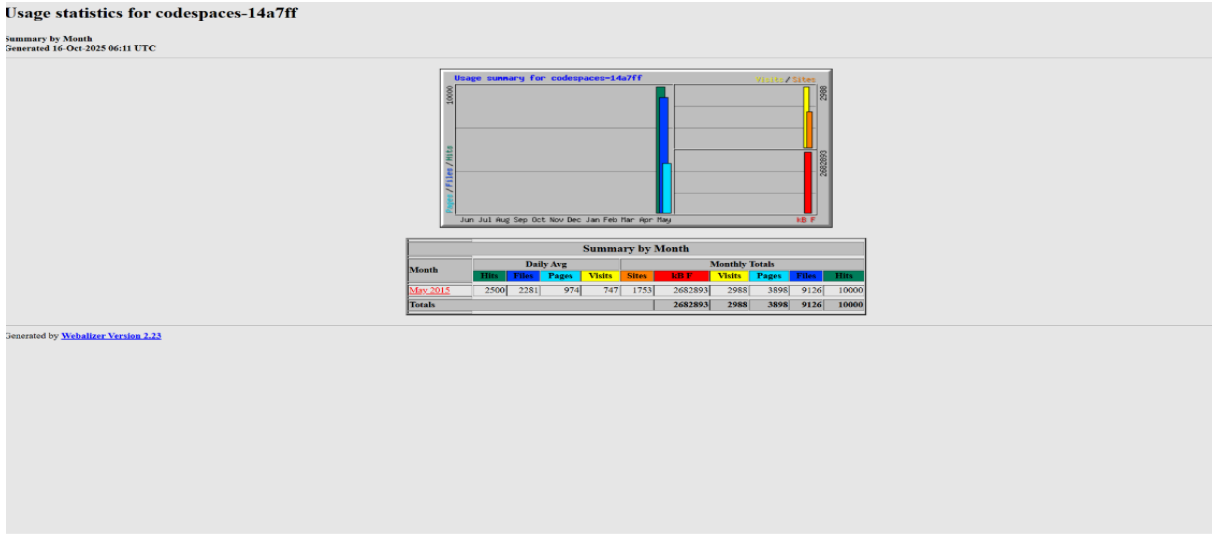
1. MONTHLY SUMMARY

[Daily Statistics] [Hourly Statistics] [URLs] [Entry] [Exit] [Sites] [Referrers] [Search] [Agents] [Countries]

Monthly Statistics for May 2015	
Total Hits	10000
Total Files	9126
Total Pages	3898
Total Visits	2988
Total kB Files	2682893
Total Unique Sites	1753
Total Unique URLs	1259
Total Unique Referrers	404
Total Unique User Agents	551

	Avg	Max
Hits per Hour	104	136
Hits per Day	2500	2896
Files per Day	2281	2645
Pages per Day	974	1277
Sites per Day	438	627
Visits per Day	747	952
kB Files per Day	670723	857968

Hits by Response Code		
Code 200 – OK	91.26%	9126
Code 206 – Partial Content	0.45%	45
Code 301 – Moved Permanently	1.64%	164
Code 304 – Not Modified	4.45%	445
Code 403 – Forbidden	0.02%	2
Code 404 – Not Found	2.13%	213
Code 416 – Requested Range Not Satisfiable	0.02%	2
Code 500 – Internal Server Error	0.03%	3

2. DAILY AND HOURLY GRAPHS:

Day	Hits		Files		Pages		Visits		Sites		kB F	
17	1632	16.32%	1496	16.39%	731	18.73%	559	18.71%	341	19.45%	404551	15.08%
18	2893	28.93%	2534	27.77%	1277	32.76%	952	31.89%	627	35.77%	770152	28.71%
19	2896	28.96%	2645	28.98%	1009	25.89%	778	26.04%	561	32.00%	650222	24.24%
20	2579	25.79%	2451	26.86%	881	22.60%	699	23.39%	505	28.81%	857968	31.98%

Hourly Statistics for May 2015

Hour	Hits			Files			Pages			kB F		
	Avg	Total		Avg	Total		Avg	Total		Avg	Total	
0	90	361	3.61%	83	333	3.65%	33	135	3.46%	7426	29704	1.11%
1	90	360	3.60%	78	313	3.43%	26	105	2.69%	22302	89209	3.33%
2	91	365	3.65%	86	347	3.80%	36	146	3.75%	38604	154415	5.76%
3	88	354	3.54%	84	338	3.70%	33	133	3.41%	26405	105620	3.94%
4	88	355	3.55%	82	331	3.63%	38	155	3.98%	55635	222533	8.29%
5	92	371	3.71%	85	342	3.75%	46	185	4.75%	36442	1457269	5.43%
6	91	366	3.66%	82	329	3.61%	37	150	3.85%	19074	76298	2.84%
7	89	357	3.57%	84	336	3.68%	44	179	4.59%	17859	71434	2.66%
8	86	345	3.45%	68	273	2.99%	15	61	1.56%	6271	25083	0.93%
9	91	364	3.64%	64	257	2.82%	24	97	2.49%	18396	73585	2.74%
10	110	443	4.43%	104	418	4.58%	42	171	4.39%	6512	26048	0.97%
11	114	459	4.59%	110	442	4.84%	45	180	4.62%	41459	165835	6.18%
12	115	462	4.62%	104	418	4.58%	51	207	5.31%	16410	65639	2.45%
13	118	475	4.75%	100	403	4.42%	51	205	5.26%	49636	198543	7.40%
14	124	498	4.98%	111	445	4.88%	68	272	6.98%	19868	79471	2.96%
15	124	496	4.96%	116	466	5.11%	53	212	5.44%	16245	64980	2.42%
16	118	473	4.73%	113	453	4.96%	43	172	4.41%	22342	89368	3.33%
17	121	484	4.84%	110	442	4.84%	39	159	4.08%	34938	139752	5.21%
18	119	478	4.78%	111	445	4.88%	55	220	5.64%	42202	1688807	6.29%
19	123	493	4.93%	113	454	4.97%	44	176	4.52%	17814	71255	2.66%
20	121	486	4.86%	118	475	5.20%	35	143	3.67%	27721	110884	4.13%
21	113	453	4.53%	107	431	4.72%	41	164	4.21%	67899	271598	10.12%
22	86	346	3.46%	74	298	3.27%	34	137	3.51%	54246	216984	8.09%
23	89	356	3.56%	84	337	3.69%	33	134	3.44%	5021	20082	0.75%

3. TOP URLS

Top 30 of 1259 Total URLs

#	Hits		kB F		URL
1	808	8.08%	2803	0.10%	/favicon.ico
2	575	5.75%	18729	0.70%	/
3	546	5.46%	2534	0.09%	/style2.css
4	538	5.38%	523	0.02%	/reset.css
5	489	4.89%	7109	0.26%	/blog/tags/puppet
6	223	2.23%	2641	0.10%	/projects/xdotool/
7	180	1.80%	0	0.00%	/robots.txt
8	154	1.54%	7194	0.27%	/projects/xdotool/xdotool.xhtml
9	135	1.35%	2482	0.09%	/articles/dynamic-dns-with-dhcp/
10	77	0.77%	1289	0.05%	/blog/geekery/ssl-latency.html
11	60	0.60%	546	0.02%	/blog/geekery/disabling-battery-in-ubuntu-vms.html
12	60	0.60%	946	0.04%	/blog/tags/firefox
13	55	0.55%	889	0.03%	/articles/ssh-security/
14	51	0.51%	536	0.02%	/blog/geekery/solving-good-or-bad-problems.html
15	51	0.51%	1783	0.07%	/presentations/logstash-puppetconf-2012/
16	47	0.47%	23156	0.86%	/images/logstash_OSCON.pdf
17	39	0.39%	341	0.01%	/blog/geekery/installing-windows-8-consumer-preview.html
18	37	0.37%	397	0.01%	/blog/geekery/xvfb-firefox.html
19	37	0.37%	870	0.03%	/presentations/puppet-at-loggly/puppet-at-loggly.pdf.html
20	30	0.30%	545	0.02%	/articles/ppp-over-ssh/
21	30	0.30%	479	0.02%	/projects/keynav/
22	28	0.28%	1218	0.05%	/presentations/logstash-scale11x/
23	26	0.26%	1249	0.05%	/presentations/logstash-1/
24	26	0.26%	457	0.02%	/presentations/logstash-metrics-sf-2012.10/
25	25	0.25%	879	0.03%	/blog
26	25	0.25%	32	0.00%	/presentations/logstash-puppetconf-2012/css/reset.css
27	24	0.24%	1272815	47.44%	/misc/sample.log
28	23	0.23%	286	0.01%	/files/logstash/
29	22	0.22%	339	0.01%	/blog/geekery/debugging-java-performance.html
30	22	0.22%	569	0.02%	/presentations/logstash-puppetconf-2012/css/main.css

4. ENTRY AND EXIT PAGES

Top 10 of 585 Total Entry Pages

#	Hits		Visits		URL
1	575	5.75%	509	18.12%	/
2	489	4.89%	323	11.50%	/blog/tags/puppet
3	223	2.23%	206	7.33%	/projects/xdotool/
4	135	1.35%	123	4.38%	/articles/dynamic-dns-with-dhcp/
5	77	0.77%	67	2.39%	/blog/geekery/ssl-latency.html
6	60	0.60%	59	2.10%	/blog/geekery/disabling-battery-in-ubuntu-vms.html
7	51	0.51%	50	1.78%	/presentations/logstash-puppetconf-2012/
8	60	0.60%	43	1.53%	/blog/tags/firefox
9	55	0.55%	39	1.39%	/articles/ssh-security/
10	37	0.37%	35	1.25%	/blog/geekery/xvfb-firefox.html

Top 10 of 587 Total Exit Pages

#	Hits		Visits		URL
1	575	5.75%	488	17.27%	/
2	489	4.89%	323	11.43%	/blog/tags/puppet
3	223	2.23%	203	7.19%	/projects/xdotool/
4	135	1.35%	125	4.42%	/articles/dynamic-dns-with-dhcp/
5	77	0.77%	66	2.34%	/blog/geekery/ssl-latency.html
6	51	0.51%	50	1.77%	/blog/geekery/solving-good-or-bad-problems.html
7	55	0.55%	49	1.73%	/articles/ssh-security/
8	60	0.60%	48	1.70%	/blog/tags/firefox
9	51	0.51%	39	1.38%	/presentations/logstash-puppetconf-2012/
10	37	0.37%	36	1.27%	/presentations/puppet-at-loggly/puppet-at-loggly.pdf.html

5. TOP SITES

#	Hits		Files		kB F		Visits		Hostname
1	482	4.82%	420	4.60%	73731	2.75%	250	8.37%	66.249.73.135
2	364	3.64%	364	3.99%	5287	0.20%	220	7.36%	46.105.14.53
3	357	3.57%	288	3.16%	42891	1.60%	10	0.33%	130.237.218.86
4	273	2.73%	93	1.02%	16739	0.62%	10	0.33%	75.97.9.59
5	113	1.13%	113	1.24%	1641	0.06%	94	3.15%	50.16.19.13
6	102	1.02%	102	1.12%	2806	0.09%	81	2.71%	209.85.238.199
7	99	0.99%	95	1.04%	164192	6.12%	63	2.11%	68.180.224.225
8	84	0.84%	56	0.61%	1235	0.05%	36	1.20%	100.43.83.137
9	83	0.83%	82	0.90%	855	0.03%	35	1.17%	208.115.111.72
10	82	0.82%	82	0.90%	804	0.03%	59	1.97%	198.46.149.143
11	74	0.74%	70	0.77%	589	0.02%	36	1.20%	208.115.113.88
12	65	0.65%	65	0.71%	669	0.02%	37	1.24%	108.171.116.194
13	60	0.60%	0	0.00%	19	0.00%	0	0.00%	208.91.156.11
14	60	0.60%	46	0.50%	840	0.03%	34	1.14%	65.55.213.73
15	56	0.56%	33	0.36%	22791	0.85%	30	1.00%	66.249.73.185
16	52	0.52%	52	0.57%	13857	0.51%	1	0.03%	50.130.66.106
17	50	0.50%	48	0.53%	2518	0.09%	5	0.17%	14.160.65.22
18	50	0.50%	50	0.55%	13488	0.50%	1	0.03%	86.76.247.183
19	43	0.43%	43	0.47%	4627	0.17%	2	0.07%	93.17.51.134
20	42	0.42%	41	0.45%	562	0.02%	22	0.74%	208.43.252.200
21	41	0.41%	14	0.15%	256	0.01%	20	0.67%	144.76.194.187
22	41	0.41%	39	0.43%	461	0.02%	10	0.33%	183.179.22.186
23	41	0.41%	14	0.15%	256	0.01%	20	0.67%	199.168.96.66
24	40	0.40%	40	0.44%	3002	0.11%	0	0.00%	209.17.114.78
25	40	0.40%	39	0.43%	2403	0.09%	2	0.07%	210.13.83.18
26	39	0.39%	38	0.42%	2381	0.09%	2	0.07%	115.112.233.75
27	39	0.39%	38	0.42%	2384	0.09%	2	0.07%	59.163.27.11
28	38	0.38%	37	0.41%	423	0.02%	10	0.33%	24.11.96.184
29	38	0.38%	38	0.42%	4266	0.16%	1	0.03%	67.61.65.249
30	37	0.37%	35	0.38%	4683	0.17%	2	0.07%	111.199.235.239

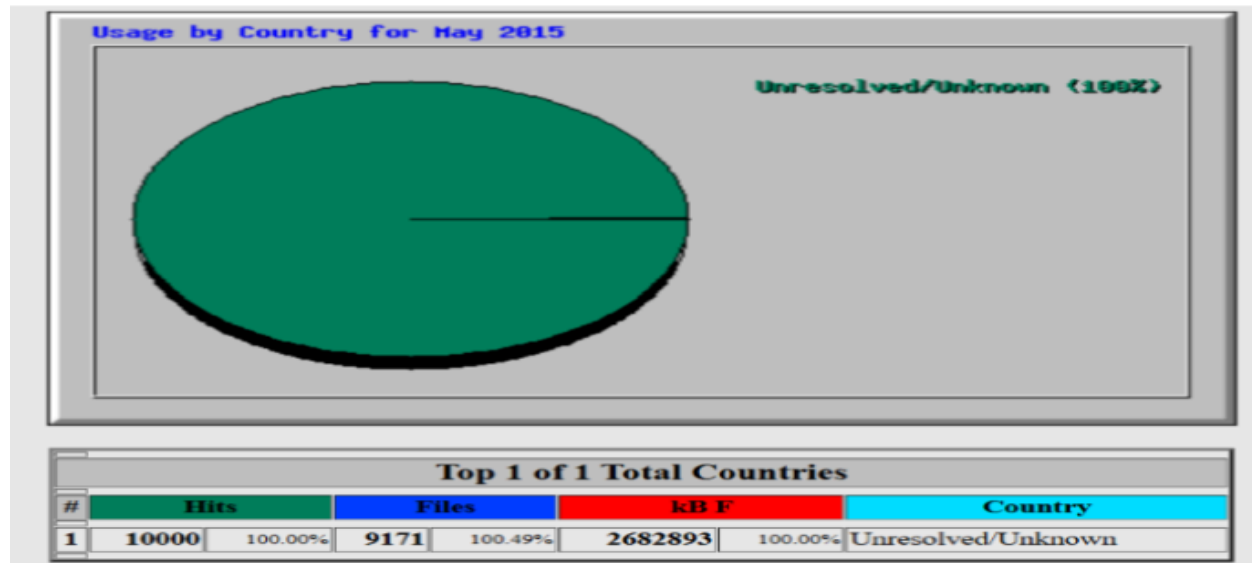| #	Hits		Files		kB F		Visits		Hostname
1	99	0.99%	95	1.04%	164192	6.12%	63	2.11%	68.180.224.225
2	6	0.06%	6	0.07%	159130	5.93%	3	0.10%	94.23.164.135
3	8	0.08%	8	0.09%	107883	4.01%	1	0.03%	190.153.25.242
4	6	0.06%	6	0.07%	106123	3.96%	3	0.10%	100.2.4.116
5	4	0.04%	4	0.04%	106087	3.95%	2	0.07%	88.198.255.242
6	2	0.02%	2	0.02%	106068	3.95%	0	0.00%	184.154.149.126
7	482	4.82%	420	4.60%	73731	2.75%	250	8.37%	66.249.73.135
8	7	0.07%	7	0.08%	67888	2.53%	1	0.03%	117.28.234.67
9	1	0.01%	1	0.01%	63730	2.38%	0	0.00%	82.200.166.110
10	4	0.04%	4	0.04%	53103	1.98%	2	0.07%	192.95.12.193

6. TOP REFERENCES

\#	Hits		Referrer
1	4073	40.73%	- (Direct Request)
2	689	6.89%	http://semicomplete.com/presentations/logstash-puppetconf-2012/
3	658	6.58%	http://www.semicomplete.com/projects/xdotool/
4	406	4.06%	http://semicomplete.com/presentations/logstash-scale11x/
5	335	3.35%	http://www.semicomplete.com/articles/dynamic-dns-with-dhcp/
6	245	2.45%	http://www.semicomplete.com/
7	200	2.00%	http://www.semicomplete.com/style2.css
8	166	1.66%	http://semicomplete.com/
9	148	1.48%	http://semicomplete.com/presentations/logstash-monitorama-2013/
10	144	1.44%	http://www.semicomplete.com/blog/geekery/ssl-latency.html
11	123	1.23%	http://semicomplete.com/presentations/logstash-1/
12	115	1.15%	http://www.semicomplete.com/blog/tags/puppet
13	104	1.04%	https://www.google.com/
14	99	0.99%	http://semicomplete.com/presentations/logstash-metrics-sf-2012.10/
15	78	0.78%	http://www.google.com/url
16	77	0.77%	http://www.semicomplete.com/blog/tags/year review
17	74	0.74%	http://www.semicomplete.com/files/xdotool/docs/html/
18	65	0.65%	http://www.semicomplete.com/blog/geekery/debugging-java-performance.html
19	65	0.65%	http://www.semicomplete.com/projects/keynav/
20	58	0.58%	http://semicomplete.com/presentations/logstash-puppetconf-2013/
21	56	0.56%	http://www.semicomplete.com/articles/ssh-security/
22	53	0.53%	http://www.semicomplete.com/blog/tags/jquery mobile
23	49	0.49%	http://www.semicomplete.com/blog/geekery/xvfb-firefox.html
24	47	0.47%	http://www.semicomplete.com/presentations/logstash-preso-1.0/
25	46	0.46%	http://semicomplete.com/blog/geekery/xvfb-firefox.html
26	45	0.45%	http://www.semicomplete.com/articles/ppp-over-ssh/
27	41	0.41%	http://semicomplete.com/files/logstash/
28	40	0.40%	http://semicomplete.com/presentations/logstash-intro/
29	36	0.36%	http://www.semicomplete.com/files/xdotool/docs/
30	31	0.31%	http://www.google.com/search

Top 30 of 404 Total Referrers

7. AGENTS

Top 15 of 551 Total User Agents

\#	Hits		User Agent
1	1044	10.44%	Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.107 Safari/537.36
2	369	3.69%	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/33.0.1750.91 Safari/537.36
3	364	3.64%	UniversalFeedParser/4.2-pre-314-svn +http://feedparser.org/
4	296	2.96%	Mozilla/5.0 (Windows NT 6.1; WOW64; rv:27.0) Gecko/20100101 Firefox/27.0
5	271	2.71%	Mozilla/5.0 (iPhone; CPU iPhone OS 6_0 like Mac OS X) AppleWebKit/536.26 (KHTML, like Gecko) Version/6.0 Mobile/10A5376e Safa
6	268	2.68%	Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.107 Safari/537.36
7	237	2.37%	Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)
8	236	2.36%	Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:27.0) Gecko/20100101 Firefox/27.0
9	229	2.29%	Mozilla/5.0 (X11; Linux x86_64; rv:27.0) Gecko/20100101 Firefox/27.0
10	198	1.98%	Tiny Tiny RSS/1.11 (http://tt-rss.org/)
11	175	1.75%	Mozilla/5.0 (Windows NT 6.3; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.107 Safari/537.36
12	166	1.66%	Mozilla/5.0 (Macintosh; Intel Mac OS X 10.7; rv:22.0) Gecko/20100101 Firefox/22.0
13	166	1.66%	Mozilla/5.0 (compatible; archive.org_bot +http://www.archive.org/details/archive.org_bot)
14	157	1.57%	Mozilla/5.0 (compatible; Ezooms/1.0; help@moz.com)
15	152	1.52%	Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.107 Safari/537.36

8. COUNTRIES AND DOMAINS

Usage by Country for May 2015

Unresolved/Unknown (100%)

#	Hits		Files		kB F		Country
				Top 1 of 1 Total Countries			
1	10000	100.00%	9171	100.49%	2682893	100.00%	Unresolved/Unknown

RESULT:

Webalizer successfully analyses web server logs from Apache, Nginx, ProFTPD, and Squid servers, generating detailed HTML reports showing visitor traffic patterns and server usage. The tool processes large log files quickly (up to 70,000 records per second) and provides actionable insights for server optimisation and traffic understanding.