

search/?searchtype=i&searcharg=0036-8075 HTTP/1.1" 200 20705 "-" "Mozilla/5.0 (compatible; xisbn.worldcat.org)" 700640
80 190.154.123.182 - - [03/May/2009:04:35:00 +0200] "GET /validate/htt...2FDynWel.%20jsp HTTP/1.0" 404 126 "-"

Millennium Web Logs

"Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; LCC1; .NET CLR 2.0.50727; Media Center PC 5.0; InfoPath.2; **OfficeLiveConnector.1.3; OfficeLivePatch.0.0; .NET CLR 3.5.30729; .NET CLR 3.0.30618)**" 3029

search/?searchtype=i&searcharg=0036-8075 HTTP/1.1" 200 20705 "-" "Mozilla/5.0 (compatible; xisbn.worldcat.org)" 700640 search/?searchtype=i&searcharg=0036-8075 HTTP/1.1" 200 20705 "-" "Mozilla/5.0 (compatible; xisbn.worl dcat.org)" 700640

80 190.154.123.182 - - [03/May/2009:04:35:00 +0200] "Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; OfficeLiveConnector.1.3; OfficeLivePatch.0.0; .NET CLR 3.5.30729; .NET CLR 3.0.30618)" 3029
80 132.174.199.77 - - [03/May/2009:04:35:05 +0200] "GET /search/?searchtype=i&searcharg=0036-8075 HTTP/1.1" 200 20705 "-" "Mozilla/5.0 (compatible; xisbn.worldcat.org)" 1024727

GAELIC Show 'n Tell Workshop held at the National Library, Pretoria 15 July 2009

80 190.154.123.182 - - [03/May/2009:04:35:00 +0200] "Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; OfficeLiveConnector.1.3; OfficeLivePatch.0.0; .NET CLR 3.5.30729; .NET CLR 3.0.30618)" 3029
80 132.174.199.77 - - [03/May/2009:04:35:05 +0200] "GET /search/?searchtype=i&searcharg=0036-8075 HTTP/1.1" 200 20705 "-" "Mozilla/5.0 (compatible; xisbn.worldcat.org)" 1024727

80 132.174.199.77 - - [03/May/2009:04:35:05 +0200] "GET /search/?searchtype=i&searcharg=0036-8075 HTTP/1.1" 200 20705 "-" "Mozilla/5.0 (compatible; xisbn.worldcat.org)" 1024727

80 190.154.123.182 - - [03/May/2009:04:35:07 +0200] "GET /validate/htt...2FDynWel.jsp HTTP/1.0" 404 126 "-"
"Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; SLCC1; .NET CLR 2.0.50727; Media Center PC 5.0; InfoPath.2; OfficeLiveConnector.1.3; OfficeLivePatch.0.0; .NET CLR 3.5.30729; .NET CLR 3.0.30618)" 296

80 72.30.87.91 - - [03/May/2009:04:35:42 +0200] GET /feeds/NSEnewbooks.xml HTTP/1.1" 200 28158 "-" "Mozilla/5.0 (X11; U; Linux x86_64; en-GB; rv:1.8.1.6) Gecko/20070803 Firefox/2.0.0.6"

80 65.55.21.175 - - [03/May/2009:04:31:02 +0200] "GET /validate?url=http%3A%2F%2F0-www.nlm.nih.gov/insepac.up.ac.za%3A80%2Frobots.txt HTTP/1.1" 200 2123 "-" "msnbot/1.1 (+http://search.msn.com/msnbot.htm)" 4439

80 41.241.137.148 - - [03/May/2009:04:33:34 +0200] "GET /feeds/NSEnewbooks.xml HTTP/1.1" 200 28158 "-" "Mozilla/5.0 (X11; U; Linux x86_64; en-GB; rv:1.8.1.6) Gecko/20070803 Firefox/2.0.0.6"

80 41.241.137.148 - - [03/May/2009:04:33:34 +0200] "GET /feeds/NSEnewbooks.xml HTTP/1.1" 200 28158 "-" "Mozilla/5.0 (X11; U; Linux x86_64; en-GB; rv:1.8.1.6) Gecko/20070803 Firefox/2.0.0.6"

80 65.55.21.175 - - [03/May/2009:04:31:02 +0200] "GET /validate?url=http%3A%2F%2F0-www.nlm.nih.gov/insepac.up.ac.za%3A80%2Frobots.txt HTTP/1.1" 200 2123 "-" "msnbot/1.1 (+http://search.msn.com/msnbot.htm)" 4439

80 41.241.137.148 - - [03/May/2009:04:33:34 +0200] "GET /feeds/NSEnewbooks.xml HTTP/1.1" 200 28158 "-" "Mozilla/5.0 (X11; U; Linux x86_64; en-GB; rv:1.8.1.6) Gecko/20070803 Firefox/2.0.0.6"

Anette Lessing
Library Services, University of Pretoria

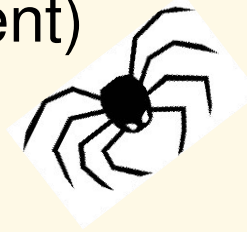


Agenda

- Why analyze logs?
- Logs from Millennium server
 - Setup and retrieving logs
 - Tools to analyze logs
- Robots, Crawlers and Spiders
 - Control by Systems Administrator
 - Robot.txt file on server

Why analyze logs?

- Support web development
 - Pages most used
 - What scopes are patrons searching
 - What browsers are used by clients
 - Where traffic is coming from
- Control over who is accessing your WebPAC
 - Robots (Web wanderers, Crawlers or Spiders used by search engines to index web content)

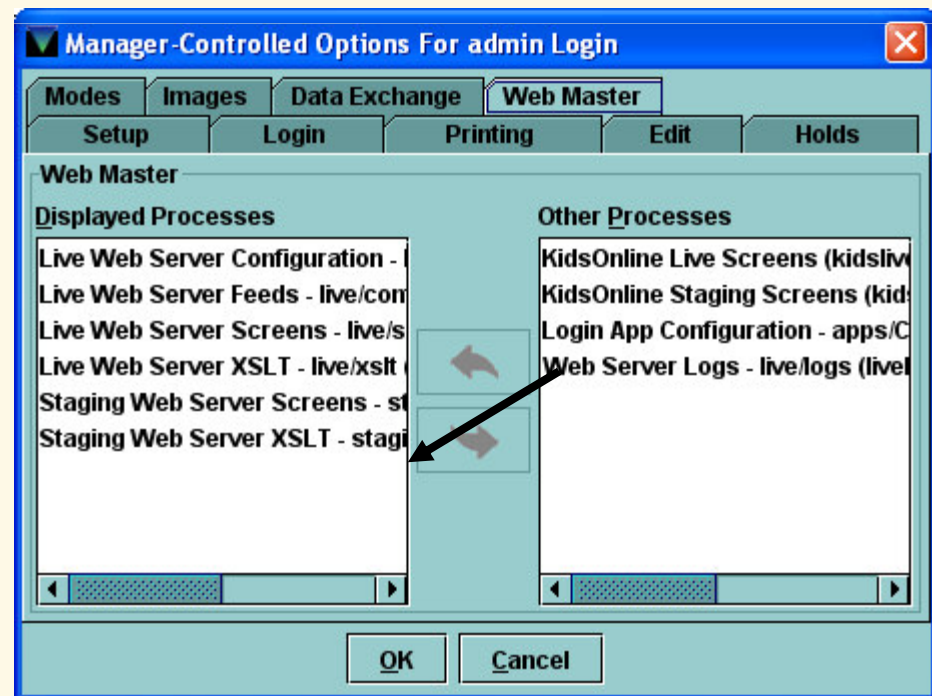


Set-up and retrieving Millennium logs

- Web server logs available as from Release 2007
 - Must run Millennium Rel. 2007 behind Apache WebServer (Innovative does not provide a log analyzer)

Setup to access logs

- Login Manager
- Web Master
- Activate Web Server Logs



Retrieving Millennium logs

The screenshot shows the Millennium Administration Web Master interface. The title bar reads "Millennium Administration · University of Pretoria/CSIR. Library Catalogue. · Anette Lessing". The menu bar includes "File", "Edit", "View", "Go", "Tools", "Admin", "Reports", and "Help". The main area is titled "Web Master" and contains a "Select Process" dropdown menu. The dropdown menu is open, showing a list of processes. A table with 6 rows is visible below the dropdown menu. The table has two columns: "File" and "Name". The rows are numbered 1 to 6. The "Name" column contains the following entries: "crossref.xml", "crossref_2_0.xml", "filter_original", "pubmed.xml", "wam_filter", and "webproxy.patterns".

File	Name
1	crossref.xml
2	crossref_2_0.xml
3	filter_original
4	pubmed.xml
5	wam_filter
6	webproxy.patterns

The dropdown menu also shows the following processes:

- Live Web Server Configuration - live (liveconf...)
- Live Web Server Configuration - live (liveconfig)
- Live Web Server Feeds - live/config/feeds (livefeeds)
- Live Web Server Screens - live/screens (livescreens)
- Live Web Server XSLT - live/xslt (livexslt)
- Staging Web Server Screens - staging/screens (stagingscreens)
- Staging Web Server XSLT - staging/xslt (stagingxslt)
- Web Server Logs - live/logs (livelogs)

In Web Master Mode - Web Server Logs

Retrieving Millennium logs

Millennium Administration · University of Pretoria/CSIR. Library Catalogue. · Anette Lessing

File Edit View Go Tools Admin Reports Window Help

Web Master

View Copy Delete Put FTS U Put PC

Select Process

File	Name	Size	Type
8	access_log.2009-06-16.gz		
9	access_log.2009-06-17.gz		
10	access_log.2009-06-18.gz		
11	access_log.2009-06-19.gz		
12	access_log.2009-06-20.gz		
13	access_log.2009-06-21.gz		
14	access_log.2009-06-22.gz		
15	access_log.2009-06-23.gz		
16	access_log.2009-06-24.gz		
17	access_log.2009-06-25.gz		
18	access_log.2009-06-26.gz		
19	access_log.2009-06-27.gz		
20	access_log.2009-06-28.gz		
21	access_log.2009-06-29.gz		
22	access_log.2009-06-30.gz		
23	access_log.2009-07-01.gz		
24	access_log.2009-07-02.gz		
25	access_log.2009-07-03.gz	gz	997863
26	access_log.2009-07-04.gz	gz	200558
27	access_log.2009-07-05.gz	gz	177436
28	access_log.2009-07-06.gz	gz	894658
29	access_log.2009-07-07.gz	gz	849828
30	access_log.2009-07-08.gz	gz	834491
31	access_log.2009-07-09.gz	gz	709033
32	access_log.2009-07-10.gz	gz	854390

Save

Save In: III Web logs

Download files and save to your PC

Name	Size	Type
access_log.2009-06-02.gz	1,651 KB	PowerArchiver GZIP
access_log.2009-06-01.gz	1,864 KB	PowerArchiver GZIP
access_log.2009-05-31.gz	670 KB	PowerArchiver GZIP
access_log.2009-05-30.gz	749 KB	PowerArchiver GZIP
access_log.2009-05-29.gz	1,406 KB	PowerArchiver GZIP
access_log.2009-05-28.gz	1,755 KB	PowerArchiver GZIP
access_log.2009-05-27.gz	1,913 KB	PowerArchiver GZIP
access_log.2009-05-26.gz	2,060 KB	PowerArchiver GZIP
access_log.2009-05-25.gz	2,309 KB	PowerArchiver GZIP
access_log.2009-05-24.gz	896 KB	PowerArchiver GZIP
access_log.2009-05-23.gz	937 KB	PowerArchiver GZIP
access_log.2009-05-22.gz	1,846 KB	PowerArchiver GZIP
access_log.2009-05-21.gz	1,892 KB	PowerArchiver GZIP

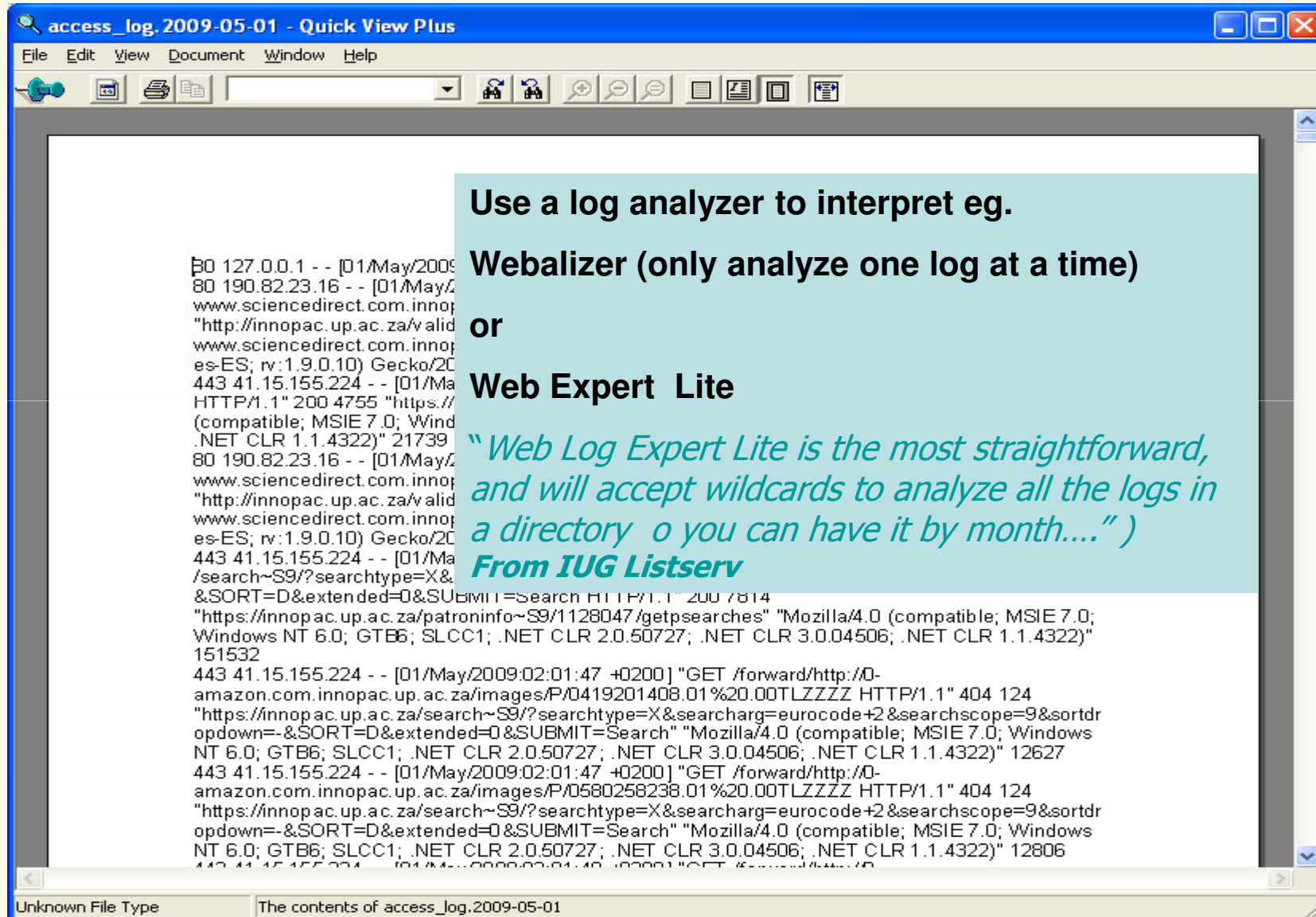
File Name: access_log.2009

Files of Type: All Files

11-07-2009 1:59AM

Millennium
Create Lists
Statistics
ASAA
Web Options
Web Master
Data Exchange
Funds

What the logs look like



The image shows a screenshot of a log file viewer window titled "access_log.2009-05-01 - Quick View Plus". The window displays raw log data with a light blue text overlay. The log data includes IP addresses, dates, and HTTP request details. The text overlay provides recommendations for log analysis tools and a quote from IUG Listserv.

Use a log analyzer to interpret eg.

- Webalizer (only analyze one log at a time)**
- or**
- Web Expert Lite**

"Web Log Expert Lite is the most straightforward, and will accept wildcards to analyze all the logs in a directory o you can have it by month....")
From IUG Listserv

```
80 127.0.0.1 - - [01/May/2009:02:01:47 +0200] "GET /search~S9/?searchtype=X&SORT=D&extended=0&SUBMIT=Search HTTP/1.1" 200 7814
80 190.82.23.16 - - [01/May/2009:02:01:47 +0200] "https://innopac.up.ac.za/patroninfo~S9/1128047/getpsearches" "Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; GTB6; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR 1.1.4322)" 151532
443 41.15.155.224 - - [01/May/2009:02:01:47 +0200] "GET /forward/http://0-amazon.com.innopac.up.ac.za/images/P/0419201408.01%20.00TLZZZZ HTTP/1.1" 404 124
"https://innopac.up.ac.za/search~S9/?searchtype=X&searcharg=eurocode+2&searchscope=9&sortdr opdown=-&SORT=D&extended=0&SUBMIT=Search" "Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; GTB6; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR 1.1.4322)" 12627
443 41.15.155.224 - - [01/May/2009:02:01:47 +0200] "GET /forward/http://0-amazon.com.innopac.up.ac.za/images/P/0580258238.01%20.00TLZZZZ HTTP/1.1" 404 124
"https://innopac.up.ac.za/search~S9/?searchtype=X&searcharg=eurocode+2&searchscope=9&sortdr opdown=-&SORT=D&extended=0&SUBMIT=Search" "Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 6.0; GTB6; SLCC1; .NET CLR 2.0.50727; .NET CLR 3.0.04506; .NET CLR 1.1.4322)" 12806
```

Unknown File Type | The contents of access_log.2009-05-01

Or go the Google Analytics way

- Reports than can be retrieved
 - Traffic sources
 - Visitors
 - Map overlay
 - Site usage
 - What browsers were used
 - And more (can set various filters)



Google Analytics set-up

The image shows a screenshot of a Windows Internet Explorer browser window displaying the Google Analytics 'Tracking Code' settings page. The browser's address bar shows the URL: `https://www.google.com/analytics/settings/check_status_handler?id=18590763`. The page content includes a sidebar with navigation options like 'Millennium', 'Create Lists', 'Statistics', 'ASAA', 'Web Options', 'Web Master', and 'Data Exchange'. The main content area is titled 'Instructions for adding tracking' and contains a section for 'New Tracking Code (ga.js)'. This section provides instructions to copy a code block into every web page. The code block is highlighted with a large black oval. To the right of the code block, a white box with a black border contains the text 'Copy code to web page'. The code block itself contains HTML and JavaScript code for tracking page views.

```
</div>
</div>
</div>
<div></div>
</div>
</div>
<div style="clear:both"></div>
<!--{botlogo}-->

<script type="text/javascript">
var gaJsHost = (("https:" == document.location.protocol) ? "https://ssl." : "http://www.");
document.write(unescape("%3Cscript src='" + gaJsHost + "google-analytics.com/ga.js'
type='text/javascript'%3E%3C/script%3E"));
</script>
<script type="text/javascript">
try {
var pageTracker = _gat._getTracker("UA-9163802-7");
pageTracker._trackPageview();
} catch(err) {}</script>
</body>
</html>
```

Google Analytics Reports

(Trial log for restricted period)



Google Analytics Reports

(Trial log for restricted period)

Visitors Overview - Google Analytics#lts=1246515712843 - Windows Internet Explorer

https://www.google.com/analytics/reporting/visitors?id=18586206&pdr=20090601-20090701&cmp=average&trows= opera mini

1,200 people visited this site

1,734 Visits

1,238 Absolute Unique Visitors

3,864 Pageviews

2.23 Average Pageviews

00:01:09 Time on Site

28.55% Bounce Rate

71.28% New Visits

Visitor Segmentation

Visitors Profile: languages, network locations, user defined

Browser Profile: browsers, operating systems, browser and operating systems, screen colors, screen resolutions, java support, Flash

Map Overlay
Geolocation visualization

Technical Profile

Browser	Visits	% visits
Internet Explorer	1,279	73.76%
Firefox	327	18.86%
Chrome	54	3.11%
Opera Mini	46	2.65%
Safari	21	1.21%
view full report		

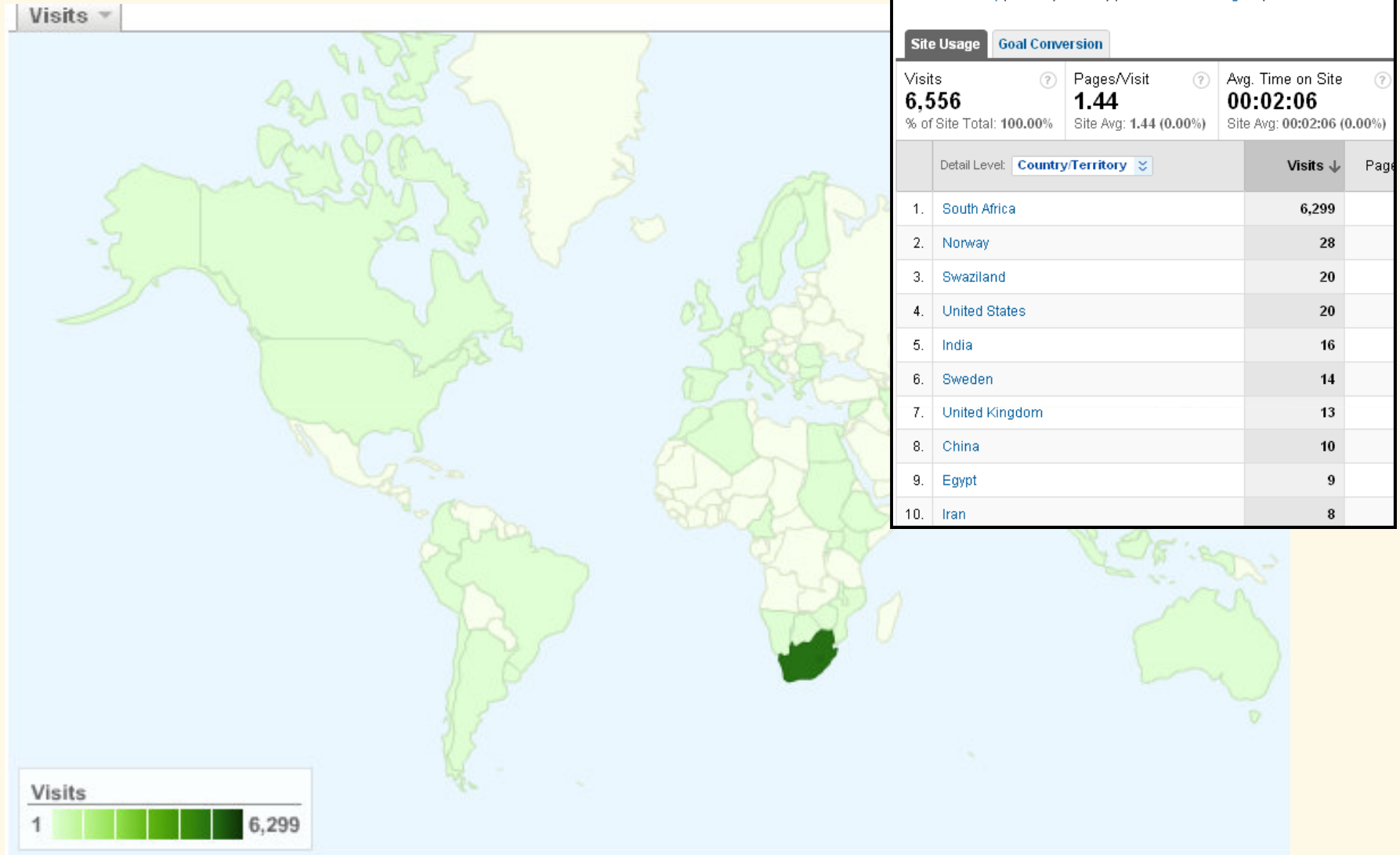
Connection Speed	Visits	% visits
Unknown	722	41.64%
T1	555	32.01%
DSL	428	24.68%
Dialup	24	1.38%
Cable	3	0.17%
view full report		

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Done Internet 100%

Google Analytics Reports

(Trial log for restricted period)



6,556 visits came from 61 countries/territories

Detail Level: [City](#) | [Country/Territory](#) | [Sub Continent Region](#) | [Continent](#) | Dimension: [None](#)

Robots

- Known as Web Wanderers, Crawlers or Spiders
- Used by search engines to index web content
- Crawlers try to follow every link embedded in catalog pages
- Used by spammers to scan for email addresses
- Increase load on OPAC and slow system down

List non-local access attempts allowed

Limit NETWORK access

Are there many postings for the *SAME* IP address in very short time span?

	DATE	TIME	REMOTE IP ADDRESS	SERVICE NAME
0001 >	03-07-09	08:49:03	38.99.13.119	http
0002 >	03-07-09	07:26:50	38.99.44.101	http
0003 >	03-07-09	07:26:50	38.99.44.104	http
0004 >	03-07-09	07:25:50	38.99.44.101	http
0005 >	03-07-09	07:25:50	38.99.44.104	http
0006 >	03-07-09	07:24:50	38.99.44.101	http
0007 >	03-07-09	07:24:50	38.99.44.104	http
0008 >	03-07-09	07:23:03	72.30.87.98	http
0009 >	03-07-09	07:21:57	38.99.44.102	http
0010 >	03-07-09	07:21:12	38.99.44.104	http
0011 >	03-07-09	07:21:09	38.99.44.101	http
0012 >	03-07-09	07:19:57	38.99.44.102	http (2)
0013 >	03-07-09	07:16:51	38.99.44.105	http
0014 >	03-07-09	07:16:46	38.99.13.117	http
0015 >	03-07-09	07:16:13	38.99.44.102	http
0016 >	03-07-09	07:15:52	38.99.44.103	http

F > FORWARD	S > SORT	Q > QUIT
J > JUMP	N > Display host NAME	P > PRINT
C > CLEAR log file	T > TOTAL by date	

Look up the host info



IP Address Report. IP address lookup. - Windows Internet Explorer

http://www.ipaddressreport.com/index.cgi

ip addresses

IP Address Report. IP address lookup.

IP Address Report

IP address lookup.
Find IP address by host domain name.

Bookmark this page

Q Tell me about this host

Hostname or IP address:
e.g. company.com or 12.34.56.78

Lookup

A The 38.99.44.104 report:

IP Address: **38.99.44.104**

Hostname: **crawl-13.XXXXXXXXXX**

More info about this host

Country: United States

IP address owner: PSINet, Inc.
1015 31st St NW
Washington
DC 20007
US

What is a Hostname?

As it is rather complicated to memorize IP addresses, most people use Domain Names instead. Domain name looks like www.company.com. The resolution between domain names and IP addresses is handled by the Domain Name Servers (DNS).

Since IP numbers are usually assigned to internet service providers within country-based blocks, an IP address can often be used to identify the country where the

Restrict Access on Innopac

Limit NETWORK access

(01) - Innopac

File Edit Transmit Utilities Setup... Help

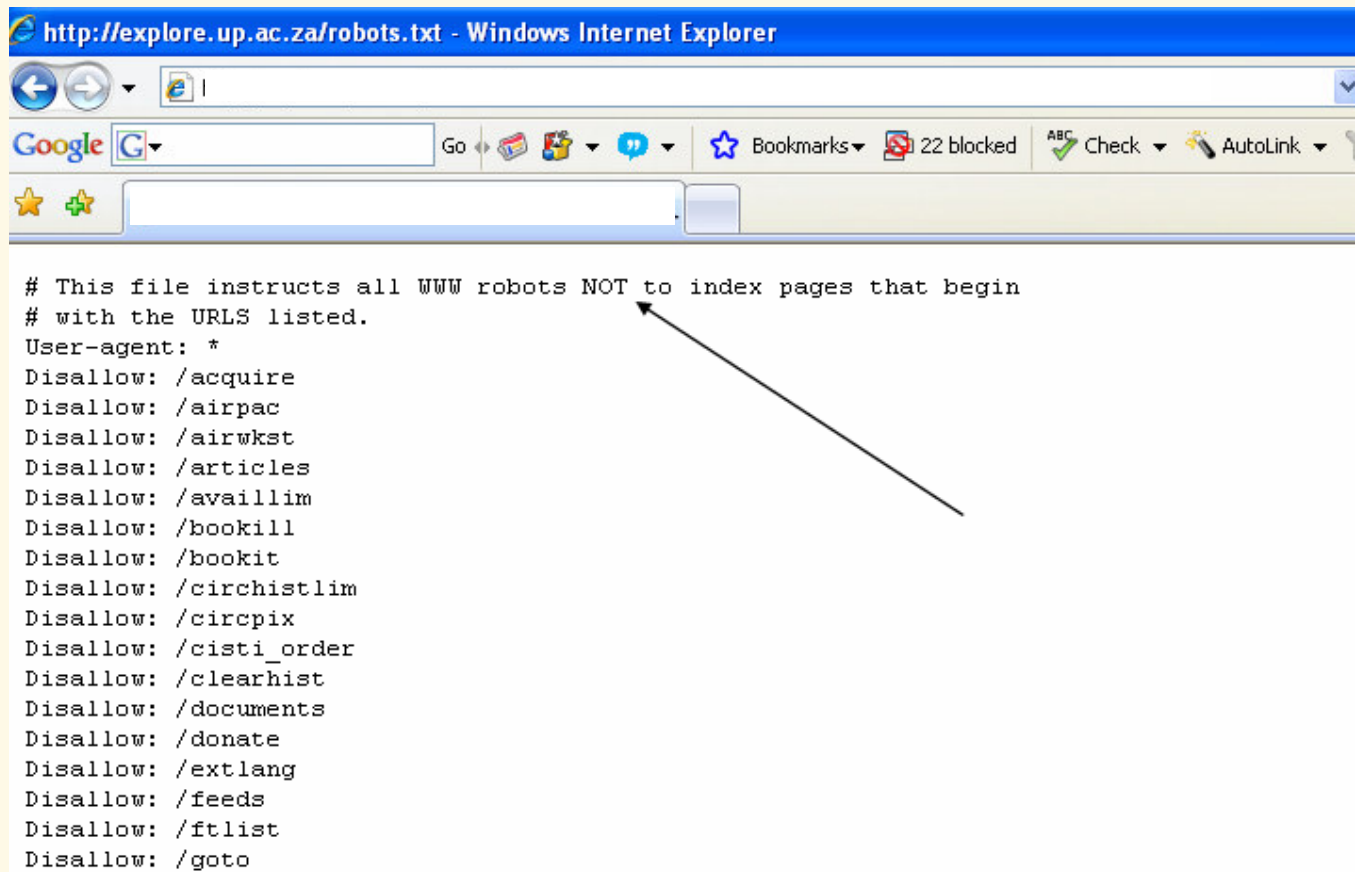
HTTP ACCESS ADMINISTRATION

	REMOTE HOST	ACCESS?	LOGIN NAME	SERVICE LEVEL
01 >	30.00	N		
02 >	6			
03 >	6			
04 >	7			
05 >	1		innopac	0
06 >	1			0
07 >	1			4
08 >	1			4
09 >	2			9
10 >	2			
11 >	2			
12 >	8			0

Key number to modify or
P > PRINT D > DELETE Q > QUIT
A > ADD N > Display site NAME

Robots.txt file on server

- <http://<your server/>robots.txt>
- Allow legitimate search engines to index main page of catalog (set by III)



```
# This file instructs all WWW robots NOT to index pages that begin
# with the URLs listed.
User-agent: *
Disallow: /acquire
Disallow: /airpac
Disallow: /airwkst
Disallow: /articles
Disallow: /availlim
Disallow: /bookill
Disallow: /bookit
Disallow: /circhistlim
Disallow: /circpix
Disallow: /cisti_order
Disallow: /clearhist
Disallow: /documents
Disallow: /donate
Disallow: /extlang
Disallow: /feeds
Disallow: /ftlist
Disallow: /goto
```

Specific segment for Google Scholar

```
# For the WebBridge Google Scholar Extension. Allows googlebot_IA to crawl
# /screens
User-agent: Googlebot-IA
Disallow: /acquire
Disallow: /airpac
Disallow: /airwkst
Disallow: /articles
Disallow: /availlim
Disallow: /bookill
Disallow: /bookit
Disallow: /circhistlim
Disallow: /circpix
Disallow: /cisti_order
Disallow: /clearhist
Disallow: /documents
Disallow: /donate
Disallow: /extlang
Disallow: /feeds
Disallow: /ftlist
Disallow: /goto
Disallow: /iii
Disallow: /ill
Disallow: /illframe
```

Allow
crawling of
both / and
/screens

From: Mark Welge, Robots, Crawlers and spiders...Oh My! Automated Searches and your WebPAC, IUG Anaheim, 17-20 May 2009

References

- <http://csdirect.iii.com/documentation/weblogs.shtml> (CSDirect search: web logs)
- (Alan Dyck, WebPAC product manager Web Access Log Analysis IUG Anaheim, 17-20 May, 2009)
- Mark Welge, Robots, Crawlers and spiders...Oh My! Automated Searches and your WebPAC, IUG Anaheim, 17-20 May 2009.



The screenshot shows a Wiki page for 'WebPAC' with the title 'Web Access Logs'. The page content includes an introduction to web access logs as a new feature in Millennium Release 2007, a paragraph about documentation, and a section for 'Log Analysis Tools'. A diagonal banner across the page contains the URL: [http://csdirect.iii.com/tema/wiki/WebPAC/AccessLogs?csduser=\(none\)](http://csdirect.iii.com/tema/wiki/WebPAC/AccessLogs?csduser=(none)). The page layout includes a left sidebar with 'Tools' and 'Webs' sections, and a breadcrumb trail: 'WebPAC Web > AccessLogs (11 May 2009, Main.iiitc_s)'.

Thank you



**From: Mark Welge, Robots, Crawlers and spiders...Oh My!
Automated Searches and your WebPAC, IUG Anaheim, 17-20 May
2009**