

Inspecting Raw Data (Flow Records)

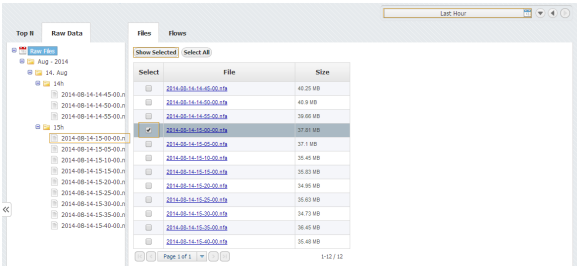
Raw Data files store flow records exported in a 5-minute interval.

Raw Data Tree groups Raw Data files in folders according to day/hour/minute. Selecting a node from the tree allows inspection of specific Raw Data files.

Inspecting Raw Data

To inspect Raw Data:

1. Go To **NetFlow > Raw Data > Files**
2. **Specify time period** in Time Window. The main panel and Raw Data Tree will show gathered files
3. **Select files** you want to inspect from the Main Panel (or alternatively, select a single file from Raw Data Tree)
4. Click **Show Selected**



Raw Data table shows flow records from the selected Raw Data file(s). Data can be filtered, grouped and sorted the by almost any field (source IP address, Bytes, Protocol etc.).

Start Time	End Time	Duration	Source IP	Source Port	Dest IP	Dest Port	Protocol	Bytes	Packets	Flows
2014-08-14 15:00:00	2014-08-14 15:05:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:05:00	2014-08-14 15:10:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:10:00	2014-08-14 15:15:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:15:00	2014-08-14 15:20:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:20:00	2014-08-14 15:25:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:25:00	2014-08-14 15:30:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:30:00	2014-08-14 15:35:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:35:00	2014-08-14 15:40:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:40:00	2014-08-14 15:45:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:45:00	2014-08-14 15:50:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:50:00	2014-08-14 15:55:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1
2014-08-14 15:55:00	2014-08-14 16:00:00	5 min	192.168.1.1	80	10.0.0.1	80	TCP	1024	1	1

Clicking on **Names** button provides IP address resolution. If you move your mouse cursor over specific IP address you can see Whois information about that host.

Flows											
Request	Response	Details	X Chat								
Start Time	End Time	Duration	Src IP	Src Port	Dest IP	Dest Port	Protocol				
17-03-2016 02:54:57.788	17-03-2016 02:54:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:54:57.888	17-03-2016 02:54:57.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:54:57.988	17-03-2016 02:54:58.004	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:55:57.788	17-03-2016 02:55:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:55:58.888	17-03-2016 02:55:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:55:59.888	17-03-2016 02:55:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:56:57.788	17-03-2016 02:56:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:56:58.888	17-03-2016 02:56:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:56:59.888	17-03-2016 02:56:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:57:57.788	17-03-2016 02:57:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:57:58.888	17-03-2016 02:57:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:57:59.888	17-03-2016 02:57:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:58:57.788	17-03-2016 02:58:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:58:58.888	17-03-2016 02:58:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:58:59.888	17-03-2016 02:58:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:59:57.788	17-03-2016 02:59:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:59:58.888	17-03-2016 02:59:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 02:59:59.888	17-03-2016 02:59:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:00:57.788	17-03-2016 03:00:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:00:58.888	17-03-2016 03:00:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:00:59.888	17-03-2016 03:00:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:01:57.788	17-03-2016 03:01:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:01:58.888	17-03-2016 03:01:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:01:59.888	17-03-2016 03:01:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:02:57.788	17-03-2016 03:02:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:02:58.888	17-03-2016 03:02:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:02:59.888	17-03-2016 03:02:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:03:57.788	17-03-2016 03:03:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:03:58.888	17-03-2016 03:03:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:03:59.888	17-03-2016 03:03:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:04:57.788	17-03-2016 03:04:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:04:58.888	17-03-2016 03:04:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:04:59.888	17-03-2016 03:04:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:05:57.788	17-03-2016 03:05:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:05:58.888	17-03-2016 03:05:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:05:59.888	17-03-2016 03:05:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:06:57.788	17-03-2016 03:06:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:06:58.888	17-03-2016 03:06:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:06:59.888	17-03-2016 03:06:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:07:57.788	17-03-2016 03:07:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:07:58.888	17-03-2016 03:07:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:07:59.888	17-03-2016 03:07:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:08:57.788	17-03-2016 03:08:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:08:58.888	17-03-2016 03:08:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:08:59.888	17-03-2016 03:08:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:09:57.788	17-03-2016 03:09:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:09:58.888	17-03-2016 03:09:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:09:59.888	17-03-2016 03:09:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:10:57.788	17-03-2016 03:10:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:10:58.888	17-03-2016 03:10:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:10:59.888	17-03-2016 03:10:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:11:57.788	17-03-2016 03:11:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:11:58.888	17-03-2016 03:11:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:11:59.888	17-03-2016 03:11:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:12:57.788	17-03-2016 03:12:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:12:58.888	17-03-2016 03:12:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:12:59.888	17-03-2016 03:12:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:13:57.788	17-03-2016 03:13:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:13:58.888	17-03-2016 03:13:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:13:59.888	17-03-2016 03:13:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:14:57.788	17-03-2016 03:14:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:14:58.888	17-03-2016 03:14:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:14:59.888	17-03-2016 03:14:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:15:57.788	17-03-2016 03:15:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:15:58.888	17-03-2016 03:15:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:15:59.888	17-03-2016 03:15:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:16:57.788	17-03-2016 03:16:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:16:58.888	17-03-2016 03:16:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:16:59.888	17-03-2016 03:16:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:17:57.788	17-03-2016 03:17:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:17:58.888	17-03-2016 03:17:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:17:59.888	17-03-2016 03:17:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:18:57.788	17-03-2016 03:18:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:18:58.888	17-03-2016 03:18:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:18:59.888	17-03-2016 03:18:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:19:57.788	17-03-2016 03:19:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:19:58.888	17-03-2016 03:19:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:19:59.888	17-03-2016 03:19:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:20:57.788	17-03-2016 03:20:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:20:58.888	17-03-2016 03:20:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:20:59.888	17-03-2016 03:20:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:21:57.788	17-03-2016 03:21:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:21:58.888	17-03-2016 03:21:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:21:59.888	17-03-2016 03:21:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:22:57.788	17-03-2016 03:22:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:22:58.888	17-03-2016 03:22:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:22:59.888	17-03-2016 03:22:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:23:57.788	17-03-2016 03:23:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:23:58.888	17-03-2016 03:23:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:23:59.888	17-03-2016 03:23:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:24:57.788	17-03-2016 03:24:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:24:58.888	17-03-2016 03:24:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:24:59.888	17-03-2016 03:24:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:25:57.788	17-03-2016 03:25:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:25:58.888	17-03-2016 03:25:58.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:25:59.888	17-03-2016 03:25:59.904	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2016 03:26:57.788	17-03-2016 03:26:57.804	0.00 sec	192.168.1.1	80	10.0.0.1	80	TCP				
17-03-2											

Raw Data table can be exported as a CSV file in order to present captured netflow records as a report to a third party or for further analysis.

To export Raw Data, click on the the **Export** button in the upper right corner of the Raw Data Table.

Request Names Details X Clear							A Export	
Start Time	End Time	Duration	Src IP	Src Port	Dest IP	Dest Port	Protocol	TOS
22-10-2014 09:43:17.840	22-10-2014 09:44:56:504	118.665 sec	192.168.1.163	55860	192.168.254.443	443	6	0
22-10-2014 09:43:15.12	22-10-2014 09:44:56:504	101.402 sec	192.168.1.163	55860	192.168.140.443	443	6	0
22-10-2014 09:44:48.360	22-10-2014 09:44:56:504	10.225 sec	192.168.1.19	55564	192.168.254.80	80	6	0
22-10-2014 09:44:48.456	22-10-2014 09:44:56:576	10.229 sec	192.168.1.204.90	80	192.168.1.19	55564	6	0
22-10-2014 09:44:50.712	22-10-2014 09:44:56:712	6.0 sec	192.168.1.76.140	80	192.168.1.144	54516	6	0
22-10-2014 09:44:27.232	22-10-2014 09:44:57:568	30.364 sec	192.168.1.67	35177	192.168.253.443	443	6	0
22-10-2014 09:44:27.402	22-10-2014 09:44:57:568	30.364 sec	192.168.1.96.253	443	192.168.1.67	35177	6	0
22-10-2014 09:39:59.44	22-10-2014 09:39:59.44	0.0 sec	192.168.1.4	64419	192.168.1.24.2	53	17	0
22-10-2014 09:39:59.108	22-10-2014 09:44:28:412	270.304 sec	192.168.1.144	57561	192.168.26.188	5228	6	0
22-10-2014 09:39:59.184	22-10-2014 09:44:28.188	270.4 sec	192.168.1.169	12075	192.168.1.164	1619	6	0
22-10-2014 09:39:59.428	22-10-2014 09:42:31.684	153.256 sec	192.168.1.4	52613	192.168.1.24.2	53	17	0
22-10-2014 09:39:59.820	22-10-2014 09:44:43:656	284.836 sec	192.168.1.13.125	5222	192.168.1.168	48712	6	0
22-10-2014 09:39:59.020	22-10-2014 09:44:43:656	284.788 sec	192.168.1.109	48712	192.168.1.133.125	5222	6	0
22-10-2014 09:44:53.464	22-10-2014 09:44:58:576	5.112 sec	192.168.1.76.140	80	192.168.1.144	54512	6	0
22-10-2014 09:44:48.132	22-10-2014 09:44:56:264	8.132 sec	192.168.1.19	54562	192.168.1.246.48	80	6	0
22-10-2014 09:44:48.132	22-10-2014 09:44:56:188	8.056 sec	192.168.1.19	54561	192.168.1.246.48	80	6	0
22-10-2014 09:44:48.132	22-10-2014 09:44:56.32	15.982 sec	192.168.1.19	54562	192.168.1.246.48	80	6	0



Grouping, filtering and sorting the raw data table will affect the CSV as well. This will also make a CSV file much smaller.



Depending on the amount of data, export can last a couple of minutes

Depending on your browser settings, browser may ask you were to save the file or it will save the file to a default folder (usually **Downloads** folder). Some spreadsheet software may ask you which separator to use when opening the file - select **Comma**.