

Chapter 2

Creating Basic Report For A Single Entry

2.1 Foreword

This chapter looks at the special HTML tags created by the Servers Alive development team that you may use to generate a HTML report that gives a snapshot of a single host's performance.

2.2 Basic Tags

Following tags may be inserted in the header or footer section of the HTML template file (see Chapter 1 for general overview of the HTML template file):

S No	Tag	Meaning, Example
1	<sa_currentlongtime>	3:42:10 PM
2	<sa_currentshorttime>	15:42
3	<sa_currentlongdate>	Day, Month Date, Year (Monday, December 25, 2006)
4	<sa_currentshortdate>	Day/Month/Year (25/12/2006)
5	<sa_version>	Ex. 6.0.2056
6	<sa_cycles>	Number of cycles since Servers Alive started.
7	<sa_cyclestart>	Date/Time when the cycle started.
8	<sa_cyclestop>	Date/Time when the cycle stopped.
9	<sa_cycletime>	Gives the time the last cycle took.
10	<sa_avgcycletime>	Average time a cycle takes (since the last time START was clicked).
11	<sa_startshorttime>	Returns the time, in a short format, when Servers Alive started.
12	<sa_startlongtime>	Returns the time, in a long format, when Servers Alive started.
13	<sa_startshortdate>	Returns the date, in a short format, when Servers Alive started.
14	<sa_startlongdate>	Returns the date, in a long format, when Servers Alive started.
15	<sa_receivedtraps>	

Note that tags 1 through 4 draw upon the international settings of the computer where Servers Alive is running.

As discussed in chapter 1, the core reporting part of the template is encapsulated in between the two tags: <sa_report> and </sa_report> (see example below).

Following are the tags that may be used as part of core reporting:

S No	Tag	Meaning, Example
1	<sa_hostid>	
2	<sa_hostname>	
3	<sa_prettyname>	
4	<sa_status>	
5	<sa_remark>	
6	<sa_statuschangedate>	
7	<sa_statuschangetime>	
8	<sa_onstatustime>	Time that the given entry is on a specific status in days-hours-minutes-seconds format. For example, 5d

		8h 13m 19s.
9	<sa_checkdescription>	
10	<sa_checkresponse>	Returns whether the SAIF tag contains (CON) or does not contain (NC0) a specific string.
11	<sa_checkresponse_num>	Shows only the numeric value of <sa_checkresponse>. For example, if <sa_roundtrip> returns 278 ms, then <sa_roundtrip_num> shows 278.
12	<sa_ip>	IP address of the host that the software checks, if known. If IP address is not known, the host name is used.
13	<sa_uid>	
14	<sa_depends_on_uid>	Returns the uid of the parent entry. When no parent entry exists, returns -1.
15	<sa_roundtrip>	
16	<sa_rrd_checkresult_graph_available>	Returns true / false. This value is true if the <sa_rrd_checkresult_enabled value> = true, and the entry is the check type D/M/F/E.
17	<sa_roundtrip_num>	Returns only the numeric component of <sa_roundtrip>.
20	<sa_mute_alerts>	Mute alerts for this entry (possible values T or F).
21	<sa_said>	Returns the name of the system on which Servers Alive is running.
22	<sa_fullpath>	
23	<sa_previousresult>	
24	<sa_currentresult>	
25	<sa_threshold>	
26	<sa_threshold_num>	Returns the numeric value of <sa_threshold>. This is the first value in the returned string.
27	<sa_stats_avgtrip>	Average roundtrip time of all UP cycles.
28	<sa_stats_avgtrip_num>	This returns the numeric value of <sa_stats_avgtrip>.
29	<sa_stats_maxrtrip>	Maximum roundtrip time of all UP cycles.
30	<sa_stats_maxrtrip_num>	The numeric value of <sa_stats_maxrtrip> is returned here.
31	<sa_stats_minrtrip>	Minimum roundtrip time of all UP cycles.
32	<sa_stats_minrtrip_num>	Returns only the numeric component of <sa_stats_minrtrip>.
33	<sa_stats_upcycles>	Number of UP cycles.
34	<sa_stats_uptime>	Uptime as a %age.
35	<sa_stats_downtime>	Downtime as a %age.
36	<sa_stats_maintenance_time>	Maintenance time as a %age.
37	<sa_stats_nondowntime>	Consecutive UP time.
38	<sa_stats_downcycles>	Number of down cycles.
39	<sa_stats_maintenance_cycles>	Number of maintenance cycles.
40	<sa_stats_totalcycles>	Number of total cycles.
41	<sa_inverted>	Displays T if the invert option is enabled for a check; otherwise, sa_inverted displays F.

42	<sa_syslog_enabled>	Diaplays True / False.
43	<sa_syslog_facility>	
44	<sa_syslog_message>	
45	<saif>	This tag is discussed separately in Chapter 4.

2.3 Basic HTML Template File

A very basic HTML template file follows. The attempt here has been to populate the file with typically used HTML tags. *No fancy HTML tags (tables, highlights, etc) have been used, so that the focus remains on understanding of the special HTML tags provided by Servers Alive.*

```
<HTML>

<HEAD>
<TITLE>Basic Monitoring Report, Single Host</TITLE>
</HEAD>

<BODY>

<p>This report is based on Servers Alive version <strong><sa_version></strong>, running
on computer <strong><sa_said></strong>.</p>

<p>Report Dated: <sa_currentlongdate>, <sa_currentlongtime></p>

<p>Monitoring started at <sa_startshortdate>, <sa_startlongtime>.
Number of cycles monitored: <sa_cycles>.</p>

<sa_report>
<H4>
Host id = <sa_hostid>, Uid = <sa_uid>.<br>
Host name = <sa_hostname>, also known as <sa_prettyname>.<br>
The full path for this entry is: <sa_fullpath>.<br>
Current Entry Status = <sa_status>.<br>
</H4>

Roundtrip times: Max. time: <sa_stats_maxrttrip>, Min time: <sa_stats_minrttrip>.<br>
Total Up cycles: <sa_stats_upcycles>, with consecutive UP time:
<sa_stats_nondowntime>.<br>
Total Down cycles = <sa_stats_downcycles> (<sa_stats_downtime>).<br>

</sa_report>
<BR>

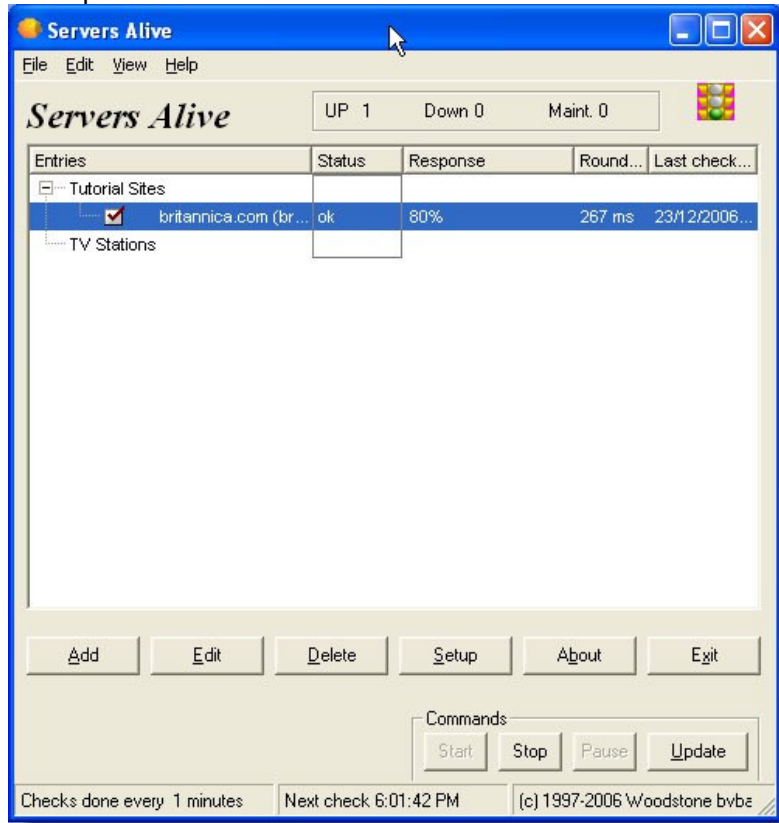
<CENTER>
<H4 align="left"><B><a href="http://www.woodstone.nu/">(c) 1997-2007 Woodstone
bvba</a> Servers Alive Tutorial, version - 1.0</B></H4>
</CENTER>

</BODY>

</HTML>
```

2.4 Corresponding Output - Single Entry

For the above HTML file, a single host entry was made in Servers Alive for this example.



The output report generated for the input HTML template file is as follows:

This report based on Servers Alive version **6.0.2056**, running on computer **SANKALPDEEP**.
Report Dated: Tuesday, December 26, 2006, 11:38:33 AM
Monitoring started at 26/12/2006, 10:00:29 AM. Number of cycles monitored: 42.

Host id = 3, Uid = 3.

Host name = britannica.com, also known as britannica.

The full path for this entry is: Tutorial Sites\britannica.com (britannica) ping (timeout : 5).

Current Entry Status = RUNNING.

Roundtrip times: Max. time: 352 ms, Min time: 297 ms.

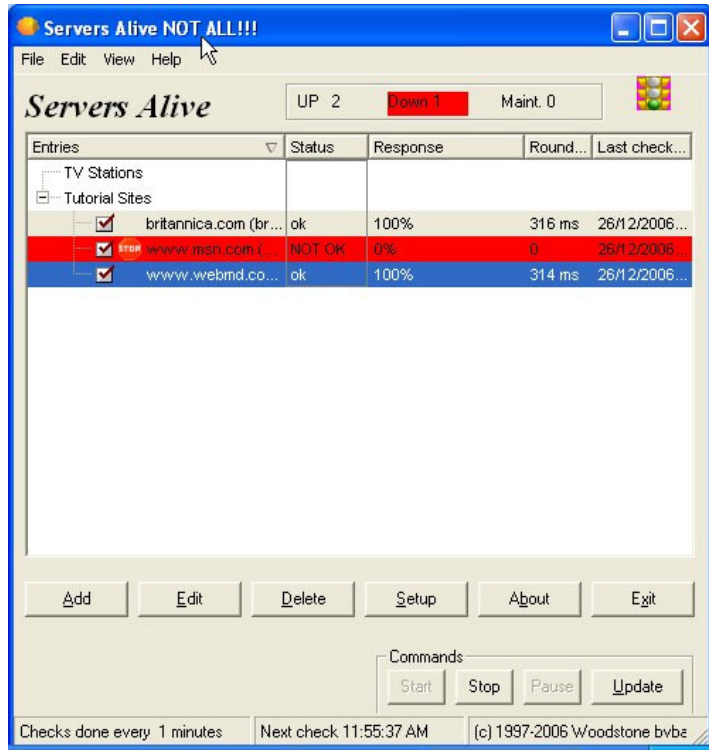
Total Up cycles: 54, with consecutive UP time: 100%.

Total Down cycles = 0 (0%).

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2.5 Corresponding Output - Multiple Entries

Using the same HTML template file above, *without making any changes whatsoever*, two further entries were made in Servers Alive:



For each individual entry, in the corresponding properties box -> output tab, the corresponding HTML template page was selected (same as for Britannica.com). The output report generated is as follows:

This report based on Servers Alive version **6.0.2056**, running on computer **SANKALPDEEP**.

Report Dated: Tuesday, December 26, 2006, 11:56:53 AM

Monitoring started at 26/12/2006, 10:00:29 AM. Number of cycles monitored: 59.

Host id = 3, Uid = 3.

Host name = britannica.com, also known as britannica.

The full path for this entry is: Tutorial Sites\britannica.com (britannica) ping (timeout : 5).

Current Entry Status = RUNNING.

Roundtrip times: Max. time: 352 ms, Min time: 297 ms.

Total Up cycles: 71, with consecutive UP time: 100%.

Total Down cycles = 0 (0%).

Host id = 4, Uid = 4.

Host name = www.msn.com, also known as MSN.

The full path for this entry is: Tutorial Sites\www.msn.com (MSN) ping (timeout : 5).

Current Entry Status = DOWN.

Roundtrip times: Max. time: -1 ms, Min time: -1 ms.

Total Up cycles: 0, with consecutive UP time: 0%.

Total Down cycles = 8 (100%).

Host id = 5, Uid = 5.

Host name = www.webmd.com, also known as Web - Medicine Doctor.

The full path for this entry is: Tutorial Sites\www.webmd.com (Web - Medicine Doctor) ping (timeout : 5).

Current Entry Status = RUNNING.

Roundtrip times: Max. time: 321 ms, Min time: 308 ms.

Total Up cycles: 4, with consecutive UP time: 100%.

Total Down cycles = 0 (0%).

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2.6 End Word

This chapter introduced the basic tags required to generate a typical entry-monitoring report. An example output with one single entry in Servers Alive, and then with multiple entries (but without joining them in a group) was presented and discussed.

As is obvious from the above report, a more helpful format is a tabular format, with data such as roundtrip times (max, min), cycles (up and down) etc are arranged in columnar fashion, with the individual host entries as rows. The next chapter allows this very format to be designed, making use of special-purpose HTML tags that Servers Alive provides.
