

## Chapter 3

### **Handling Multiple Entries In Groups**

#### **3.1 Foreword**

This chapter discusses a HTML template file that allows monitored data from a set of host entries to be presented in a sleeker format.

### 3.2 Tags for Groups

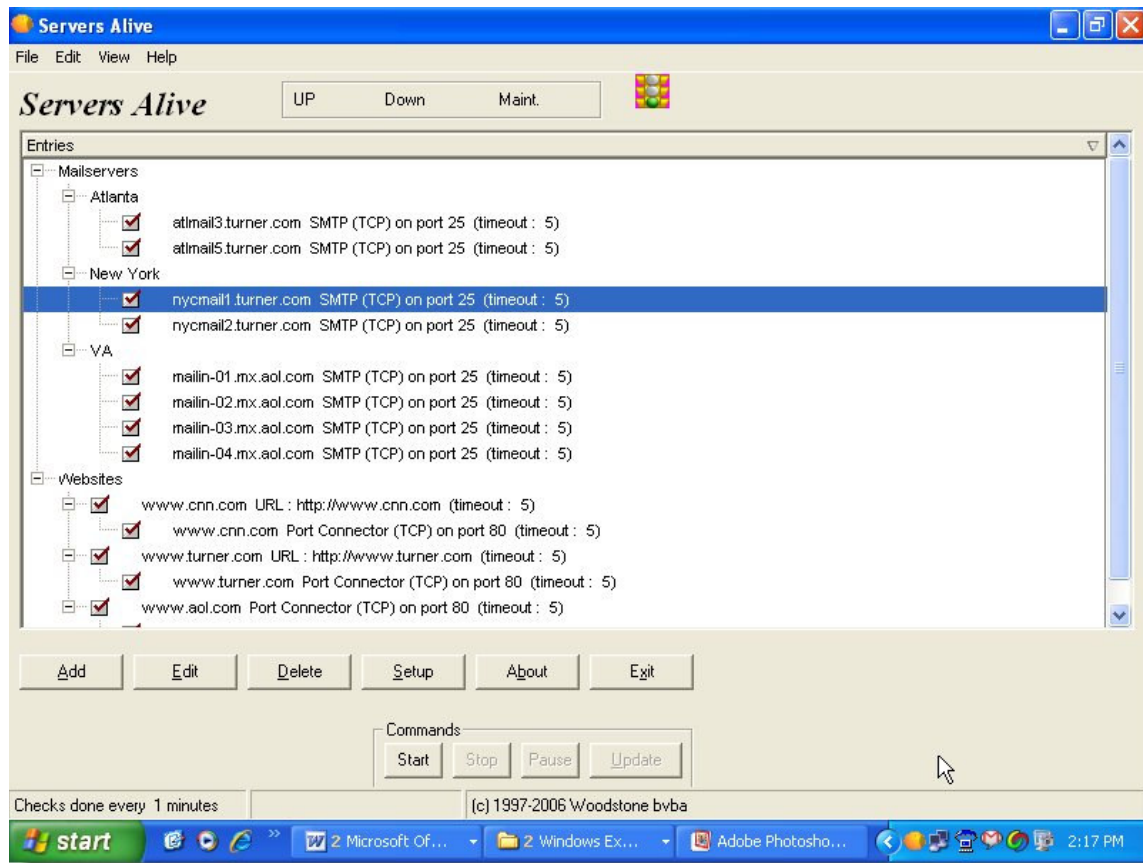
The tags discussed here build up on the tags already presented in the preceding chapter:

S No	Tag
1	<sa_topgroupheader>, </sa_topgroupheader>
2	<sa_topgroupfooter>, </sa_topgroupfooter>
3	<sa_groupheader>, </sa_groupheader>
4	<sa_groupfooter>, </sa_groupfooter>
5	<sa_topgroup_name>
5	<sa_groupname>
6	<sa_group_number_of_entries>
7	<sa_group_up_entries>
8	<sa_group_down_entries>
9	<sa_groupid>
10	<sa_group_path>
11	<sa_group_number_of_entries>

### 3.3 Step 1: Introduce relevant entries to Servers Alive

Under a group, introduce the relevant entries to Servers Alive. In this tutorial example, two new groups have been introduced: "Mail Servers" and "Websites". Within "Mail Servers", three groups have been created - "Atlanta", "New York" and "VA". At the third level are simple entries. Within "Websites", simple entries have been entered.

The following scenario has thus been created for this example:



### 3.4 Step 2: Create a HTML Template File

Create an HTML template file which incorporates all the topgroups, groups and subgroups, if any. This chapter uses the following example:

```
<HTML>

<HEAD>
<TITLE> Multiple Entries, TopGroups And Groups</TITLE>
</HEAD>

<BODY>
This report based on Servers Alive version: <sa_version>, running on computer:
<sa_said>.<br><br>
Report Dated: <sa_currentlongdate>, <sa_currentlongtime><br><br>

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

<sa_report sort=status,onstatustime>

<sa_topgroupheader>
  <h3>Top Group: <sa_topgroup_name></h3>
</sa_topgroupheader>

<sa_groupheader>
<H4><b><sa_group_name></b></H4>
Number of entries: <sa_group_number_of_entries> (Up=<sa_group_up_entries>,
Down=<sa_group_down_entries>, Maintenance=<sa_group_maintenance_entries>,
Unavailable=<sa_group_unavailable_entries>)<br>

<TABLE WIDTH=700 BORDER=2>
<TR>
<TH> Entry </TH>
<TH> Host Id </TH>
<TH> Response </TH>
<TH> Status </TH> <TH> MaxRndTrips </TH>
<TH> MinRndTrips </TH>
<TH> UpCycles </TH>
<TH> Percent </TH>
<TH> DownCycles </TH>
<TH> DownTime </TH>
</TR>

</sa_groupheader>

<sa_groupfooter>
</TABLE>
</sa_groupfooter>
```

Cont'd on next page ...

```

<TR>
<TD ALIGN=LEFT WIDTH=100><sa_hostname> (<sa_checkdescription>)</TD>
<TD WIDTH=4><sa_hostid></TD>
<TD><FONT face = "verdana"
SIZE=1><CENTER><p><sa_checkresponse></p></CENTER></TD>
<TD WIDTH=7 SIZE=1 ALIGN=CENTER><sa_status></TD>
<TD WIDTH=15 ALIGN=CENTER><sa_stats_maxrtrip></TD>
<TD WIDTH=15 ALIGN=CENTER><sa_stats_minrtrip></TD>
<TD WIDTH=10 ALIGN=CENTER><sa_stats_upcycles></TD>
<TD WIDTH=10 ALIGN=CENTER><sa_stats_nondowntime></TD>
<TD WIDTH=10 ALIGN=CENTER><sa_stats_downcycles></TD>
<TD WIDTH=10 ALIGN=CENTER><sa_stats_downtime></TD> </TR>

</sa_report>
<BR>

<CENTER>
<H4 align="left"><B><a href="http://www.woodstone.nu/">(c) 1997-2006
Woodstone bvba</a> Servers Alive Tutorial, version - 1.0</B></H4>
</CENTER>

</BODY>

</HTML>

```

Note the following two snippets in the code above:

Snippet 1:

```
<sa_groupheader>
.
.
.
<TABLE WIDTH=700 BORDER=2>
.
.
.
</sa_groupheader>

<sa_groupfooter>
</TABLE>
</sa_groupfooter>
```

The <TABLE> tag is placed in the <sa\_groupheader>, </sa\_groupheader> tags. The </TABLE> tag is placed within the <sa\_groupfooter>, </sa\_groupfooter> tags. This is essential if the table format is to come out correctly. You may experiment with your template file by not placing the <TABLE> and </TABLE> tags in the desired group- header and -footer tags, and observe the outcome in the report. Also note that the content in the <sa\_groupheader> section is repeated for every group in the report.

Snippet 2:

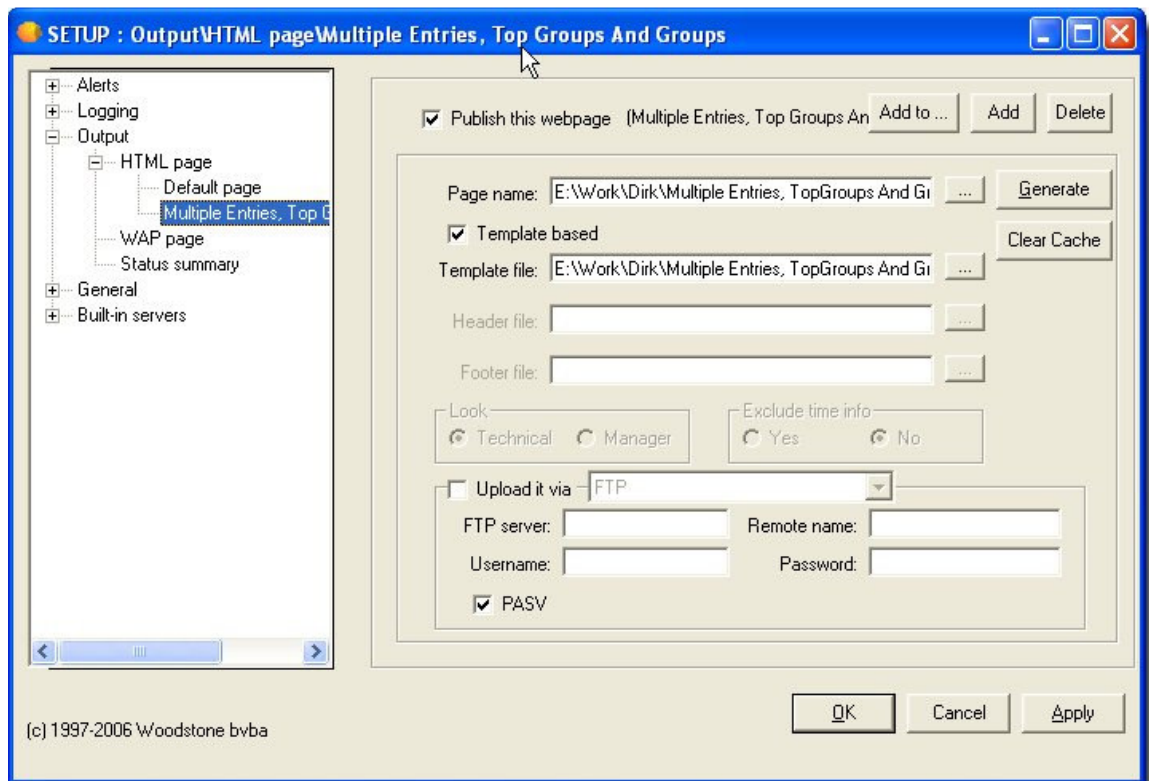
```
.
.
.
<sa_report sort=status,onstatustime>
.
.
.
```

By default, the Servers Alive report is sorted by group. In case this default behavior is to be overridden, use the "nogroup" clause. (<sa\_report sort=hosted,onstatustime,nogroup>) Through this code, the report is sought to be sorted on the two parameters of "status" and "onstatustime". The parameters may be skipped altogether; alternatively, other sort parameters may be added.

### 3.5 Step 3: Introduce the HTML Template File to Servers Alive

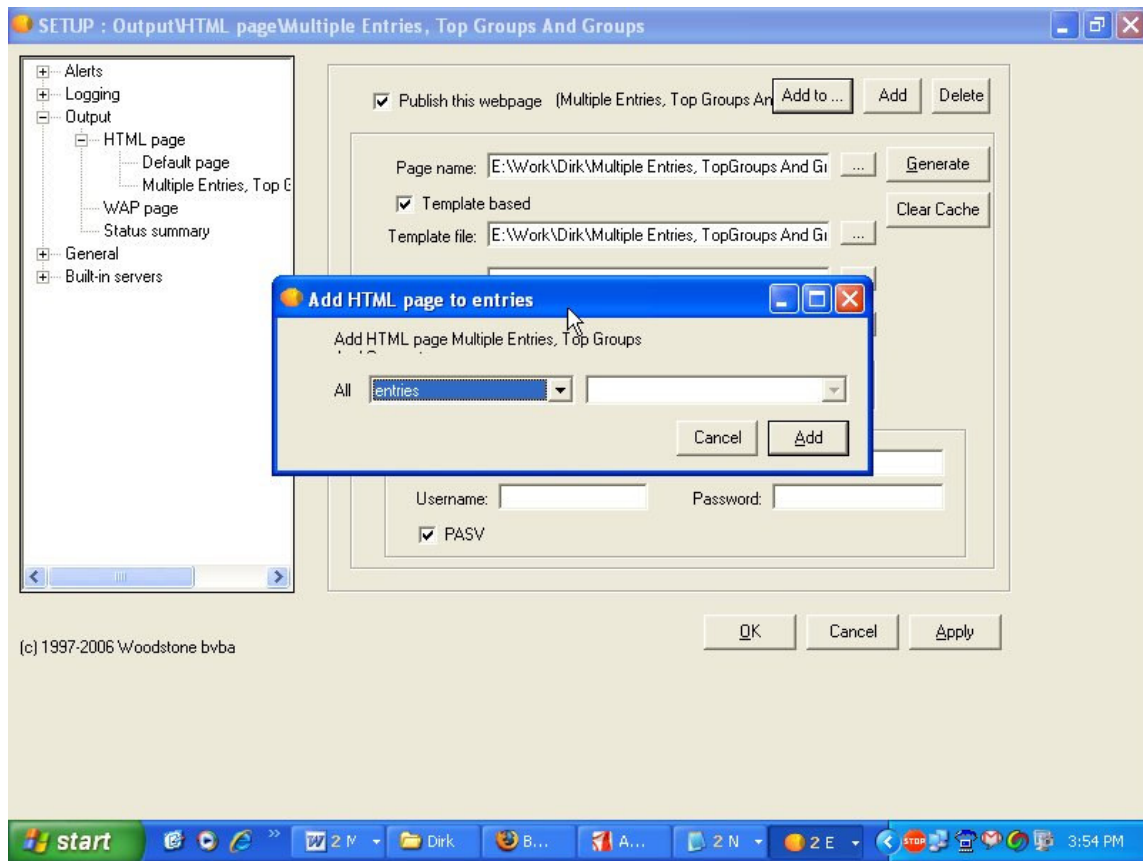
Introduce the HTML template file to Servers Alive as follows:

1. In File -> Setup -> Output -> HTML Page, click on "Default Page", and then click on the "Add" button on top right of the window (between "Add to ..." and "Delete" buttons).



2. A new window pops up, asking you for the name of the HTML page. In the screenshot above, "Multiple Entries, Top Groups And Groups" has been entered. This name appears in the left panel.
3. Check the box next to "Publish This Page". It may be noted that any entry within the box below the "Publish this webpage" title will be possible only when the "Publish this webpage" is activated by checking the box beside it.
4. Check the box next to "Template Based", the objective of this tutorial.
5. Click on the ellipses [...] button beside "Template File". The standard Windows Open dialog box opens, which you can navigate to reach the folder where the template file created by you in step 2 above is stored. After selecting the desired file and the "Open" button clicked, the entire path appears in the "Template File" field box.

6. Click on the ellipses [...] button beside "Page Name". The standard Windows Open dialog box opens, which you can navigate to reach the folder where the template file created by you in step 1 above. After selecting the desired file and the "Open" button clicked, the entire path appears in the "Template File" field box.
7. Click on the "Add to ..." button at the top of the page. A new window comes up - "Add HTML page to entries" - as shown in the following screenshot:



8. From the drop down box next to "All", select "entries member of". From the right dropdown box, select the name of the group that corresponds to the host entries whose performance is being monitored. In this particular example, all the five groups that appear in this box are selected one by one, and the "Add" button clicked for each.
9. Click on "Apply" and finally on "OK". This window closes, and we are back to the main menu.



### 3.6 Output File for a Group of Entries

When Servers Alive begins monitoring, the output file is generated. This tutorial example generated the following output file:

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

Report Dated: Friday, December 29, 2006, 3:55:21 PM

Monitoring started at 29/12/2006, 2:02:07 PM. Number of cycles monitored: 14.

#### Top Group: Mailservers

##### Atlanta

Number of entries: 2 (Up=0, Down=2, Maintenance=0, Unavailable=0)

Entry	Host Id	Response	Status	MaxRnd Trips	MinRnd Trips	UpCycles	Perc ent	DownC ycles	DownT ime
atlmail5.turner.com (SMTP (TCP) on port 25)	4	Connecti on possible, but received data not correct ()	DO WN	-1 ms	-1 ms	0	0%	14	100%
atlmail3.turner.com (SMTP (TCP) on port 25)	4	Connecti on possible, but received data not correct ()	DO WN	-1 ms	-1 ms	0	0%	13	100%

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## New York

Number of entries: 2 (Up=0, Down=2, Maintenance=0, Unavailable=0)

Entry	Host Id	Response	Status	MaxRnd Trips	MinRnd Trips	UpCycles	Percent	DownCycles	DownTime
nycmail2.turner.com (SMTP (TCP) on port 25)	2	Connection possible, but received data not correct ()	DOWN	-1 ms	-1 ms	0	0%	14	100%
nycmail1.turner.com (SMTP (TCP) on port 25)	2	Connection possible, but received data not correct ()	DOWN	-1 ms	-1 ms	0	0%	14	100%

Cont'd on next page ...

VA

Number of entries: 4 (Up=0, Down=4, Maintenance=0, Unavailable=0)

Entry	Host Id	Response	Status	MaxRndTrips	MinRndTrips	UpCycles	Percent	Down Cycles	Down Time
mailin-04.mx.aol.com (SMTP (TCP) on port 25)	8	Connection possible, but received data not correct (554- (RTR:CH) http://postmaster.info.aol.com/errors/554rtrch.html  554 Connecting IP: 59.92.164.125)	DOWN	-1 ms	-1 ms	0	0%	14	100%
mailin-03.mx.aol.com (SMTP (TCP) on port 25)	8	Connection possible, but received data not correct ( )	DOWN	-1 ms	-1 ms	0	0%	14	100%
mailin-02.mx.aol.com (SMTP (TCP) on port 25)	8	Connection possible, but received data not correct (554- (RTR:CH) http://postmaster.info.aol.com/errors/554rtrch.html  554 Connecting IP: 59.92.164.125)	DOWN	-1 ms	-1 ms	0	0%	14	100%
mailin-01.mx.aol.com (SMTP (TCP) on port 25)	8	Connection possible, but received data not correct (554- (RTR:CH) http://postmaster.info.aol.com/errors/554rtrch.html  554 Connecting IP: 59.92.164.125)	DOWN	-1 ms	-1 ms	0	0%	14	100%

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## Top Group: Websites

### Websites

Number of entries: 6 (Up=4, Down=1, Maintenance=0, Unavailable=1)

Entry	Host Id	Name	Status	MaxRndTrips	MinRndTrips	UpCycles	Percent	DownCycles	DownTime
www.cnn.com (URL : http://www.cnn.com)	1	The current connection has timeout.	DOWN	38185 ms	17251 ms	6	66.667%	3	33.333%
www.cnn.com (Port Connector (TCP) on port 80)	13	Depends on entry that is NOT up	UNAVAILABLE	528 ms	497 ms	6	100%	0	0%
www.turner.com (URL : http://www.turner.com)	6	200 OK	RUNNING	1984 ms	1887 ms	6	77.778%	2	22.222%
www.turner.com (Port Connector (TCP) on port 80)	14	Connection possible	RUNNING	527 ms	492 ms	6	100%	0	0%
www.aol.com (URL : http://www.aol.com)	7	200 OK	RUNNING	12193 ms	4808 ms	7	75%	2	25%
www.aol.com (Port Connector (TCP) on port 80)	12	Connection possible	RUNNING	3477 ms	552 ms	8	100%	0	0%

### **3.7 End Word**

This chapter worked on the example of multiple entries, joined under groups, which in turn were joined under top groups. Special HTML tags created by Servers Alive to handle groups were deployed for this purpose.

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