

# Deployment

## Prerequisite:

Depends on rrdtool version 1.2.12 or newer version of it. Therefore it must be installed. The RRD tool is already installed on PingER machine.

## Security Checks

The perl taint option -T is used in order to taint the input which the cgi will get from the user also "strict" is used.

## CGI Scripts

### Graph.cgi

Configuration Steps:

- I changed the following path to point to 'rrdtool' installation. The path should go up to the 'perl' directory as follows:

```
use lib "/afs/slac.stanford.edu/package/netmon/rrdtool/lib/perl/5.8.8";  
use lib "/afs/slac.stanford.edu/package/netmon/rrdtool/lib/perl/5.8.8/i386_linux24";
```

PingER it worked fine. The problem was due to the fact that Flora is a 64 bit machine.

- I changed following link(present on line 58,252) to point to installation of Graph.cgi i.e [http://www-dev.slac.stanford.edu/cgi-wrap/smokeping\\_graph.cgi](http://www-dev.slac.stanford.edu/cgi-wrap/smokeping_graph.cgi)
- I changed the following relative path to GraphCache from folder containing Graph.cgi:

```
my $imgsrc="$HOME/pinger_smokeping/html/GraphCache where $HOME is my home directory where the project is placed.
```

### SaveImage.cgi

\* \*I have written saveimage.cgi which is called from graph.cgi and it prints the image data to the browser. The image is created temporarily and is deleted after it is show to the user.

The image is created in /tmp/ directory

### Form.cgi

Displays the SourceSite\_DestinationSite\_PacketsSize\_NumberOfPings(maximum) RRDs(data) available for the monitoring site or node selected from pingtable.pl by user.

Configuration Steps:

- I changed the mainpath to point to the srcdest.txt file:

```
my $mainpath="$HOME/pinger_smokeping/SRCDEST_FILE/srcdest.txt";
```

where \$HOME is home directory where the project is placed.

- I changed this path to point to the folder containing the pinger.new.cf file: my \$base\_dir="\$HOME/pinger\_smokeping";
- I also had to put <HTML> nad <BODY> tags to see the output correctly in the browser which otherwise gave error. This script takes two parameters as

1. src\_regexp (Monitoring Site)
2. by site | node

### Pingtable.pl

- I used the version provided with the distribution. I added this link to form.cgi Line 504:

```
$config
{URLCOLUMN0}

= "SMOKE [http://www-dev.slac.stanford.edu/cgi-wrap/smokeping_form.cgi?src_regexp=]";
```

- I also had to change require statement at line 96 to point it to new pinger.new.cf

```
require "$base_dir/pinger.new.cf";
```

where

```
$base_dir="/afs/slac/u/sg/shahryar/pinger_smokeping";
```

- Also the path of mon-lib.pl was changed in pinger.new.cf to point to the new mon-lib.pl

These three scripts are deployed at Test server (/afs/slac.stanford.edu/g/www/cgi-wrap-bin/net/shahryar)

which I guess is not accessible from outside world. These scripts are deployed at:

[http://www-dev.slac.stanford.edu/cgi-wrap/pingtable\\_test.pl](http://www-dev.slac.stanford.edu/cgi-wrap/pingtable_test.pl)

[http://www-dev.slac.stanford.edu/cgi-wrap/smokeping\\_form.cgi](http://www-dev.slac.stanford.edu/cgi-wrap/smokeping_form.cgi)

[http://www-dev.slac.stanford.edu/cgi-wrap/smokeping\\_graph.cgi](http://www-dev.slac.stanford.edu/cgi-wrap/smokeping_graph.cgi)