

monitor_newlisp/xymonnet-zebra [Modules]

[Top] [Modules]

NAME

xymonnet-zebra

SYNOPSIS

Monitor utility for trendnet routers that support zebra. It performs the following tasks:

- Connects to the router and authenticates to the zebra port
- Gets data from the network interfaces and stores them in file
- Gets data from file and delivers network statistics.

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xymonnet-zebra/machine-id [Generics]

[Top] [xymonnet-zebra] [Generics]

NOTES

Being that this is a pull script, machine id needs to be hard coded

SOURCE

```
(set 'TESTNAME "zebranet")  
(set 'MACHINE "router")
```

xymonnet-zebra/get-stat [Functions]

[Top] [xymonnet-zebra] [Functions]

NAME

get-stat

DESCRIPTION

Gets router statistics for specific network interfaces. Right now they are hard coded for the wifi network and the ethernet connection. It:

- Opens a socket
- Sends a password
- Sets terminal length to 0, "terminal length 0\n"
- Shows interface br0
- Shows interface eth2 (1 to 2)
- Exits

INPUTS

None

OUTPUT

Menu executes and an answer is obtained from the user.

NOTES

It could be changed to make it more generic.. but it works

xymonnet-zebra/analyze-stat [Functions]

[Top] [xymonnet-zebra] [Functions]

NAME

analyze-stat

DESCRIPTION

Parses the file containing the interface statistics. It will do the following tasks:

- Opens the file
- Splits by newline
- Gets interface name and statistics.
- Shows interface br0
- Shows interface eth2 (1 to 2)
- Exits

INPUTS

None

OUTPUT

A list in which each element has the interface name, input kilobytes, output kilobytes.

NOTES

It could be changed to make it more generic.. but it works

xymonnet-zebra/main [Generics]

[Top] [xymonnet-zebra] [Generics]

DESCRIPTION

The following operations are done to guide the collection and delivery of data:

- Gets the statistics from the router.
- Gets the list of input and output bytes.
- Sends the data to Xymon for collection.

NOTES

It could be changed to make it more generic.. but it works

xymonnet-zebra/configuration [Generics]

[Top] [xymonnet-zebra] [Generics]

DESCRIPTION

To configure xymon to show these under threads, the following needs to be configured in \$XYMONHOME/etc:

- graphs.cfg
- xymonserver.cfg

Add an entry in graphs.cfg with the following configuration parameters for the graph.

```
[zebranet]
  FNPATTERN ^zebranet.(.+).rrd
  TITLE Router Traffic Statistics

  YAXIS Kilobytes
  DEF:in@RRDIDX@=@RRDFN@:up:AVERAGE
  DEF:out@RRDIDX@=@RRDFN@:down:AVERAGE
  LINE1:in@RRDIDX@#@COLOR@:@RRDPARAM@ Input

  GPRINT:in@RRDIDX@:LAST: %6.11f (cur) \:
  GPRINT:in@RRDIDX@:MAX: %6.11f (max) \:
  GPRINT:in@RRDIDX@:MIN: %6.11f (min) \:
  GPRINT:in@RRDIDX@:AVERAGE: %6.11f (avg)\n
  LINE1:out@RRDIDX@#@COLOR@:@RRDPARAM@ Output
  GPRINT:out@RRDIDX@:LAST: %6.11f (cur) \:
  GPRINT:out@RRDIDX@:MAX: %6.11f (max) \:
  GPRINT:out@RRDIDX@:MIN: %6.11f (min) \:
  GPRINT:out@RRDIDX@:AVERAGE: %6.11f (avg)\n
```

In xymonserver.cfg, at the end of the TEST2RRD and GRAPHS variables, add "zebranet". This will tell xymon to show the zebranet graphs.

Add this script under the \$XYMONHOME/etc for the server and add an a appropriate entry under \$XYMONHOME/tasks.d/ to enable automated execution of this script.

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