



In addition to another Technote I did with Synthetic transactions to monitor a web server, I did this one to monitor a router with custom synthetic transaction.

This can be done with following command

**synthetic add <minute>, <interval> <custom://<ip-address>:<port>/<login><password><exit command>**

Example “My Router” with no logon account, password “**secret**” and exit command “**99**”

```
192.168.10.254 #
192.168.10.254 # synthetic add 1,3 custom://192.168.10.254:23/|switch|99
Added synthetic transaction my_router
192.168.10.254 #
```

Example “My Switch” with the logon account “**admin**”, password “**secret**” and exit command “**exit**”

```
192.168.10.254 #
192.168.10.254 # synthetic add 1,3 custom://192.168.10.1:23/admin|switch|exit
Added synthetic transaction my_switch
192.168.10.254 #
```

After setting up synthetic transactions using the synthetic add command, you can verify the settings and check on how many transactions were attempted and how many connections were actually made. This can be done with following CLI Command **synthetic show**.

```
192.168.10.152# syn show
```

Transaction ID	URL	Interval	Repeat	Next Scheduled	Attempts	Connections
my_switch	custom://192.168.10.1:23/admin secret exit	1	3	30-Nov-2004 16:16:27	2	1
my_router	custom://192.168.10.254:23/ secret 99	1	3	30-Nov-2004 16:17:09	31	30

```
192.168.10.152#
```

A Class has been added automatically to the class tree.

Traffic Class Name	Report	Class Hits	Policy Hits	Current (bps)	1 Min (bps)	Peak (bps)	Guar. Rate Failures	Pkt Exch (ms)
Inbound				169	265	2.1M	0	NA
SyntheticTransactions				152	252	2213	0	NA
192.168.10.1		4	NA	137	99	721	0	NA
192.168.10.254		66	NA	0	192	1226	0	NA

Next, I’ve created a Report on the PacketShaper track server response time. You also can add network response time, total response time, and PacketExchange Time average.

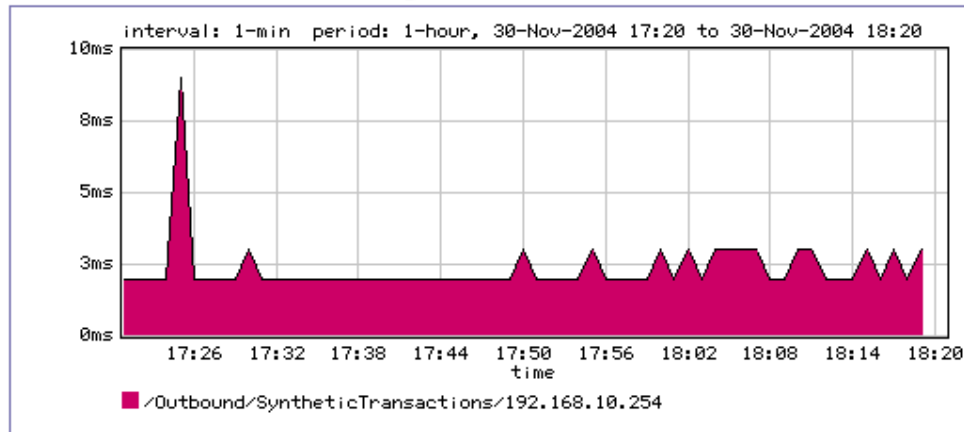


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## Server Transaction Delay



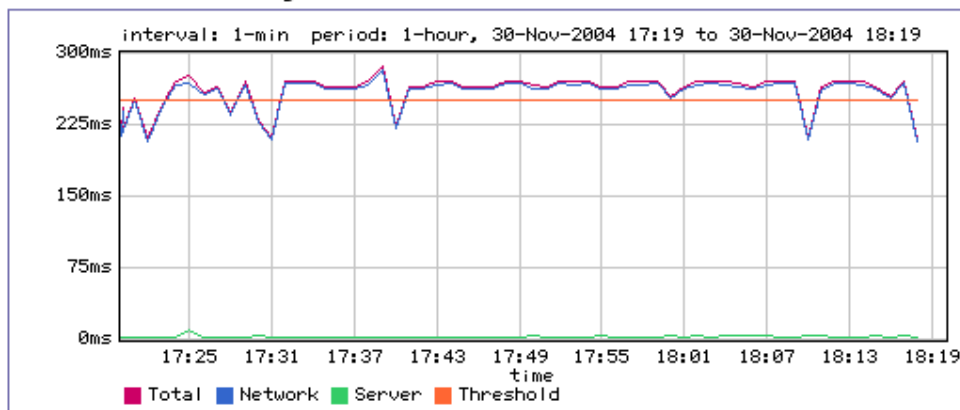
Server transaction delay is the time between when the server receives the last request packet and when it sends the first packet of the reply (the time the server takes to process the client's request).

In addition to Synthetic Transaction to monitor a Router, you may also create thresholds and/or events to be triggered.

### SETUP THRESHOLDS:

<http://support.packeteer.com/documentation/packetguide/7.0.0/nav/tasks/rtn/set-thresholds.htm>

## Transaction Delay



### SETUP EVENTS

<http://support.packeteer.com/documentation/packetguide/7.0.0/nav/tasks/events/define-event.htm>

An example with event notification can be found here  
[http://www.bemsel.com/TechTip/RBE\\_PKTR\\_EVE\\_NOTIFY.PDF](http://www.bemsel.com/TechTip/RBE_PKTR_EVE_NOTIFY.PDF)