

RIPE

NLNOG RING

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But what is it?

- Powerful debugging tool
- More advanced than a BGP looking glass
- Shell access to 27 Autonomous Systems (and counting....)



How it started

- In december 2010 a friend of mine had some awkward
- (IP related) problems



Current participants (as of May 2011)



Guidelines

- Closed group
 - only participants have access
- Based on mutual trust
 - “I trust the participants with access to my machine, as they trust me with access to their machines”
 - Abuse of the resources provided by the RING is absolutely forbidden, and we apply a ‘zero tolerance’ policy.



How it works

- You (the participant)
 - use the ring through SSH
- Us (RING admins)
 - we update, configure, maintain, secure, check and audit the ring
 - we use puppet and some homebrew stuff



Example - ping

```
Feanor:~ job$ ring-ping -v -6 www.ripe.net
widexs01:          1.715
coloclue01:        2.205
cambrium01:        1.910
interconnect01:    2.267
duocast01:         3.866
easyhosting01:     3.373
xlshosting01:      3.778
zylon01:           4.611
intouch01:         0.702
bit01:             2.820
nxs01:             0.983
ic-hosting01:      4.560
previder01:        2.988
nedzone01:         6.017
xs4all01:          1.439
ebayclassifiedsgroup01: 2.576
is01:              1.367
oxilion01:         9.190
prolocation01:     3.593
netground01:       2.948
in2ip01:           2.852
surfnet01:         2.307
totaalnet01:       4.239
signet01:          5.915
leaseweb01:        3.271
```

```
job@intouch01:~$ ring-ping www.ripe.net
```

```
27 servers: 2ms average
```

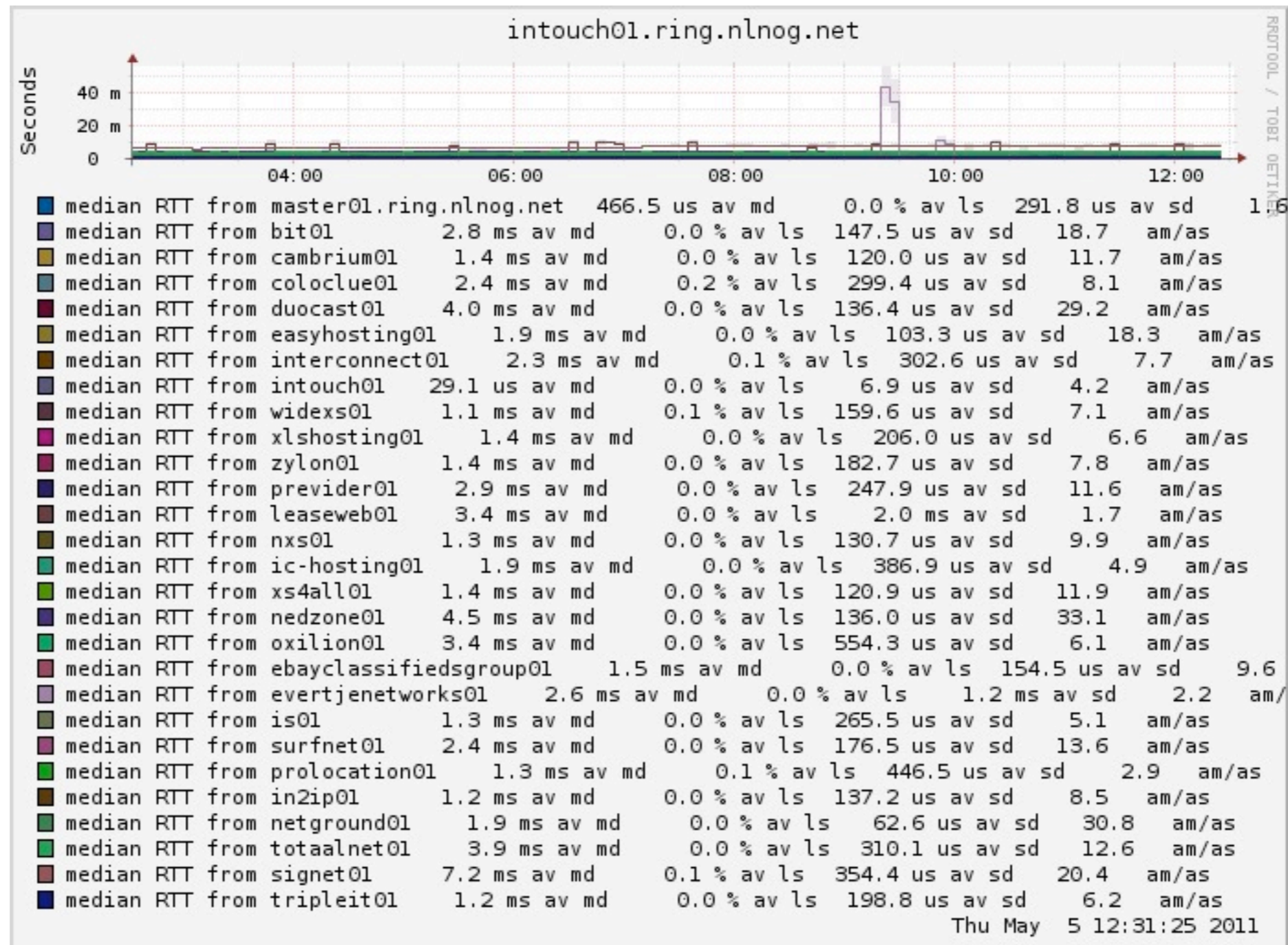
```
job@intouch01:~$ ring-ping -6 www.ripe.net
```

```
27 servers: 3ms average
```

```
job@intouch01:~$
```



Example: smokeping



Example: traceroute

- The traceroute example did not fit in a slide...
- Please go to the following URL to see the output

– **<http://tinyurl.com/ripe62>**



Other things you can do

- use dig to check your nameservers from 27 networks
- MTU testing between you and others
- portscanning
- debug layer 2 loadbalancing on IXPs
- anything!



Future plans

- We are setting up a legal entity
 - nonprofit foundation “GlobalNOG”
- Participants will sign a common-sense agreement
- Maybe a nice web interface for administration?
- API for monitoring / alerting tasks?
- Feedback / Ideas are welcome!!



Please join the RING!

- All it takes:
 - 1 machine (virtual is fine)
 - 1 IPv4 and 1 IPv6 address
 - fresh install of Ubuntu 10.10 (64 bit)
 - Your company is present in the DFZ with its own ASN

- email us: ring-admins@globalnog.net



Concerns, questions... ?

- The RING is a community effort, built by and for us, network engineers. If you have any questions, or would like to discuss concerns your company might have with the RING, please contact us!
 - [email: ring-admins@globalnog.net](mailto:ring-admins@globalnog.net)
 - [web: http://globalnog.net/](http://globalnog.net/)

