



What to do when Multicast doesn't work ...

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Why you care about multicast

■ ***Multicast Definition***

- To transmit a single message packet with a special destination address which multiple nodes on the network may be willing to receive.

■ ***Why should I care about multicast?***

- consider stats from earlier ***Victoria Secrets*** webcast
 - More than 1 million web hits during 1st hour
 - 283% increase in web traffic during event
- Do the math (***stream * potential endpoints***)
- Consider the opportunities: AG, ConfXP, Video delivery
Milan (K12) school reduced \$\$ of new high school (TV, coax, etc.)

Things you'll need

- Some useful tools
- Friends, neighbors, far away neighbors
- Patience, patience, & more patience

- When sourcing, make sure the TTL > 1

- NOTE: *make sure the TTL > 1*

■ Detective

- <http://detective.internet2.edu/>
- <http://detective.internet2.edu/2006April-Release/windows-client.zip>
- <http://detective.internet2.edu/2006April-Release/linux-client.tar.gz>

■ Multicast Test Page

- (<http://www.multicasttech.com/?main=mt/index2002.php3>)

■ Iperf (<http://dast.nlanr.net/Projects/Iperf/>)

■ Beacon (<http://dast.nlanr.net/projects/Beacon/>)

■ My silly test programs (<http://people.internet2.edu/~bdr/multicast/>)

■ Ethereal (<http://www.ethereal.com/download.html>)

■ RcBridge (<http://rcb-registry.anu.edu.au:9090/>)

■ Multicast Working Group

- (<http://multicast.internet2.edu/>)
- Multicast Cook Book
- Multicast Apps

■ Multicast Sources

- <http://multicast.internet2.edu/wg-multicast-sources.shtml>
- <http://db.arts.usf.edu/dvguide/>

■ Router Proxy

- (<http://routerproxy.grnoc.iu.edu/abilene/>)

Some other useful pointers

- Multicast Router viewer
- MANTRA multicast monitoring
- Multicast Beacon Server
- Internet2 Detective

- **Multicast Troubleshooting**
 - Bill Nickless – Methodology
 - UCSB – Debugging handbook
 - Internet2 Workshop



Now A real user!

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