#### Find Reasons for Slow Network

Written by Colasoft

Wednesday, 16 February 2011 05:57 - Last Updated Wednesday, 16 February 2011 06:04

### **Analyze Reasons for Slow Network**

Slow network is a common phenomenon. For the diversity of the reasons causing slow network, to troubleshoot slow network is one of the most common and troublesome work in daily network management.

According to analysis, major reasons for slow network are:

- 1. Loopback
- 2. Broadcast/Multicast storm
- 3. Virus attack
- 4. Server slow response
- 5. Too many clients
- 6. Application slow response
- 7. Error client mask

How can we quickly find out the cause for slow network happens? It's a good idea to capture and analyze packets with a network analyzer.

# **Deep Analysis of Slow Network**

Network analyzer works in sniffing mode. It can capture and analyze network communications in real time. After analysis, we can find reasons for slow network. Here we use Colasoft Capsa.

The following table lists the reasons, phenomenon of slow network in Colasoft Capsa GUI, and corresponding solutions:



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Broadcast/Multicast stor	r Large numbers of broa	Packet	tab. Broadcast/Multicas	Sı
		1		
Virus Attack	There are a lot of conne	View source address	ofN/1AeSæddnææctiondssam	<b>a</b> bc
Server Slow Response	In the	Packet	tab, SYN/ACK respons	e t
				A
Too Many Clients	Too many nodes in the	Node Explorer	, the	Р
Application Slow Respo	ı In the	Packet	tab, packets response	tir
Application Slow Respo	In the	Packet	tab, packets response	tiı
Application Slow Respo	ı In the	Packet	tab, packets response	

## Conclusion

Reasons causing slow network are diversified, there is no absolute way that can guarantee normal network operation. With a network analyzer you can quickly find out the reason that causes slow network, thus greatly enhanced network management efficiency.

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