

Planning for Application Deployment

Mike Pennacchi

Network Protocol
Specialists, LLC

INTEROP[®]

BUSINESS. TECHNOLOGY.
ONE WEEK. ONE PLACE.

The Problems

- No knowledge of current state of the network
- Application worked well on the LAN, it should work as well on the WAN

Current State of the Network

- Is the network prepared to transport another application?
- Requires the installation of monitoring equipment prior to application deployment
- Can traffic be prioritized to allow time critical traffic to go first?

Who invited you?

- Is the traffic present on the existing network supposed to be there?
- At one client we saw 100% utilization at 10 minutes after the hour, every hour
- They didn't know this was a problem until we analyzed the network prior to a large application deployment

How Busy is it?

- Monitoring is simple and cheap
- Products such as MRTG can be installed within minutes and provide valuable utilization information. Come check out our Friday presentation to find out just how easy
- Monitoring the network not only provides a means to see current utilization, but compare levels before and after application deployment

It worked on the LAN...

- It worked on the LAN, so it must work on the WAN
- If it is slow on the WAN, we must not have enough bandwidth

Two Step Process

- Step 1 - Test
 - Test the application in an environment that matches your current WAN environment
 - Use the test network to determine the impact of increased bandwidth
 - If the application is still slow, go to Step 2

Two Step Process

- Step 2 - Analyze
 - Based on the results of Step 1, capture the traffic for the slow transactions
 - Analyze the traffic to determine if it is the result of poorly written code, large amounts of data, improper configurations

Performance Engineering Team

- This group checks out all applications before being deployed on the network
- Could be one person, could be an entire division
- Ensure application plays nice and will not be adversely impacted by current conditions

Know It!

- Know your network
- Know your applications
- Know the protocols