NETWORK FORENSICS

OUR NETWORK FORENSICS DIVISION CAN HELP WITH THE FOLLOWING:

Tier3 can identify and correct network issues using industry standard protocol analysis

TROUBLESHOOTING

- Overcome “Needle in the Haystack issue”
- Locate faulty network devices, point of packet loss & misconfigured hosts
- Identify device or software misconfigurations, network errors and service refusals, protocols and applications in use, asynchronous traffic prioritization, HTTP error responses indicating client and server problems & average and unacceptable service response times (SRT)
- Measure high delays along a path
- Graph Queuing delays
- Find top talkers on the network
- Determine the average packets per second rate and bytes per second rate of an application or all network traffic on a link
- List all hosts communicating
- Recognize the most common connection problems
- Spot delays between client requests due to slow processing
- Detect network or host congestion that is slowing down files transfers
- Graph HTTP flows to examine website referral rates
- Build graphs to compare traffic behaviors
- Examine startup process of hosts and applications on the network
- Find the cause of performance problems

SECURITY-RELATED TASKS

- Perform intrusion detection
- Identify and define malicious traffic signatures
- Passively Discover hosts, operating systems and services
- Log traffic for forensics examination
- Capture traffic as evidence
- Test Firewall blocking
- Validate secure login and data traversal
- Identify applications that do not encrypt traffic
- Identify unusual scanning traffic on the network

OPTIMIZATION-RELATED TASKS

- Analyze current bandwidth usage
- Evaluate efficient use of packet sizes in data transfer applications
- Evaluate response times across a network
- Validate proper system configurations

APPLICATION-RELATED TASKS

- Analyze application bandwidth requirements
- Identify application protocols and ports in use
- Validate secure application data traversal
- Graph application throughput
- Deep-packet inspection and analysis