Lab - Researching Network Monitoring Software (Instructor

Version)

Instructor Note: Red font color or Gray highlights indicate text that appears in the instructor copy only.

Objectives

- Part 1: Survey Your Understanding of Network Monitoring
- Part 2: Research Network Monitoring Tools
- Part 3: Select a Network Monitoring Tool

Background / Scenario

Network monitoring is needed for any sized network. Proactively monitoring the network infrastructure can assist network administrators with their day-to-day duties. The wide variety of networking tools available vary in cost, depending on the features, number of network locations and number of nodes supported.

In this lab, you will conduct research on available network monitoring software. You will gather information on software products and features of those products. You will investigate one product in greater detail and list some of the key features available.

Required Resources

PC with Internet access

Part 1: Survey Your Understanding of Network Monitoring

Instructor Note: In Part 1, the instructor may wish to lead a discussion with students on their undersord network monitoring, and how it is used by network administrators. This lab may be assigned as how			
Describe network monitoring as you understand it. Give an example of how it might be used in a production network.			
Network monitoring is done using software, typically a tool or set of tools that aid network administrators in troubleshooting, monitoring, and modifying devices within their network. Reports, performance graphs, hardware inventory management, software inventory management, network mapping of topologies,			

generation of alerts through email, and/or texts to a network administrator can be part of the software tool. A

network administrator may decide to set up an email alert when packet loss on a router exceeds a certain limit.

Part 2: Research Network Monitoring Tools

Step 1: Research and find three network monitoring tools.

List the three tools that you found.

	ring Software	
<u>-</u>	RTG, and Nagios are some examples form for the network monitoring	
Vendor	Product Name	Features
olar Winds: www.solarwinds.com	Network Performance Monitor	Performance monitoring, automated network device discovery, network alerting, mult vendor device support
aessler: www.paessler.com	PRTG	Logging, bandwidth monitoring, packet sniffing, support for NetFlow
agios: www.nagios.org	Nagios XI	Real-time event monitoring, performance and capacity planning, configuration wizards, user-specific notification preferences
	or more tools you would choose for mosing them, including specific features	
, , , ,	f the commercial tools offer 30-day fre he product can be a big factor when s	·
network sensors. Ease of use of the important as well. p 2: Investigate the PRTG n	he product can be a big factor when s etwork monitoring tool.	•
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	Answers will vary. PRTG has comprehensive network monitoring with support for more than 170 sensor types. It also has flexible alerting including: Email, syslog, pager, alarm sound files and multiple condition alerts. Remote network monitoring, network maps and customizable web interfaces are available as well.				
Re	flection				
	Based on your research, what conclusions have you reached regarding network monitoring software?				
	Answers will vary. Based on the sheer number of products available, choosing the right product is crucial. 30-day trial versions can be nice as they allow the network administrator to work with a product before buying it. There will be a learning curve to using the product, with whichever one is chosen.				