**Subject: (**Assignment 1: Executive Summary Assignments)

Dear Dr. Perigo,

As technology grows and improves rapidly, network management has evolved into a complex series of functions balanced to each other. Because of this, our company should focus on performance in management as a priority. There are two network management systems I would like to suggest to you. The first one is Nigios, which is open source with no cost. The following are the “pros and cons, in my opinion”:

Pros:

* The good side of this tool is many plugins are available and free to use, and we can write our own plugins.

Cons:

* The downside of this tool is that is it not easy to configure, new employees will need to take some time to learn and get used to the tool.
* It will also take a long time to update on NMS when the network is large. In this case, there might be some delays that cause emitting alerts[1].
* The software might take hours or years to upgrade, so users need to endure bugs.

The other tool is a commercial tool, SolarWinds, which is easy to manipulate, and it provides a feature of running an auto-discovery in Monitor. This avoids the need to spend time manually to link up our network devices to console. Here are some pros and cons listed below:

Pros

* One of the most promising features is this tool’s offering Hop-by-Hop analysis with its NetPath which uses an advanced traffic simulation to discover dynamic network paths between hops.[2]
* There is ongoing support to fix issues with the software.

Cons

* It’s only available on a Windows platform.
* It is expensive.

Each tool has its benefits and risks, and minimizing cost for the company is a priority. However, as our company grows quickly and steadily, we might need to consider and expect potential employees to learn NMS quickly. A UI based tool could be a better option for more potential employees to join our company.

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References:

1. <https://www.comparitech.com/net-admin/network-monitoring-tools/>
2. <https://www.capterra.com/p/152751/Nagios-Core/>
3. http://www.omninecs.com/pros-cons-network-monitoring-solution-solarwinds/