Name: Hannah Johnson

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Protecting Availability

BLUF

The chief information security officer is in charge of managing all the of the cyber security related systems in an organization. Ensuring the availability of these systems is crucial for the continued protection and functionality of the company. Here are some policies and systems that I would implement if I were the CISO:

Traffic Management

Traffic management is the process of managing the network traffic and sending it to the optimum place based on its priority (*Network Traffic Management Tools*, 2024). This is a preventative measure that can help to mitigate the damages caused from outages or attacks and can even prevent them from ever happening (*Network Traffic Management Tools*, 2024). Traffic management processes can help to stop an outage caused by system overload before it happens by providing data on performance (*Network Traffic Management Tools*, 2024). It can also identify different security threats by analyzing the networks behavior and noting different spikes that could be caused by a hacker or other threats (*Network Traffic Management Tools*, 2024).

Failover Systems

A failover system is the process that occurs when the main system becomes unavailable (due to outages, ransomware attacks, or other issues) and a secondary backup system is able to step in and take over that function (Failover, 2024). It is similar to the way that a backup generator works in that when the system goes down, it knows when to start up but it is often a little bit less capable than the original system. In the event of system failure, a failover system will allow busyness to keep running as close

to normal as possible, while also minimizing the loss of data and revenue (Failover, 2024).

Conclusion

Both of these systems are very important when it comes to protecting data and protecting the systems storing the data. By having, both a preventative measure, like traffic management and a system to help recover after a disaster, such as a failover system, can help to create a well rounded cyber security environment that is proactive against incidents happening and ready for when they inevitably do.

References

Failover. Cohesity. (2024, September 17). https://www.cohesity.com/glossary/failover/#:~:text=Failover%20is%20the%20process%20of,availability%20and%20maximize%20system%20uptime.

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