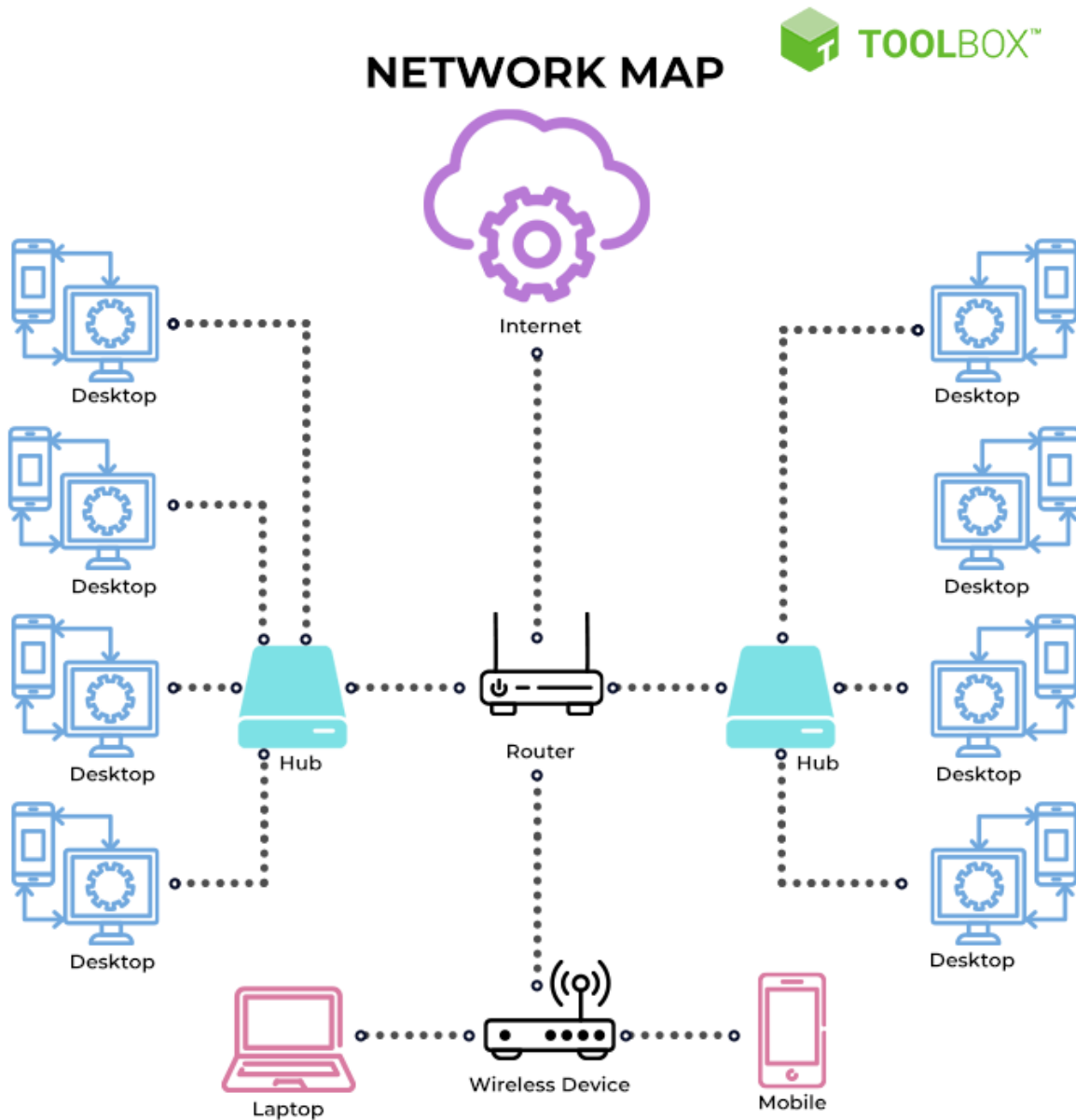


Yengkong Sayaovong

2/8/23

Network Security Protections

Network Mapping:



Threat Modelling:

Spoofing – The server is connected to the internet which is vulnerable to hackers to get information from a user by installing malware.

Tampering – Hackers can breach server and get important information if files are not protected properly.

Repudiation – Record is kept for user log ins to maintain secured data from being breached.

Information Disclosure – Protocols are in place to be certain that only a certain person is authorized to access certain information.

Denial of service – Updating the firewall on a regular basis can reduce the chance of hackers attacking the server.

Elevation of Privileges – Regularly checking for malware in the server to mitigate attacks.

Risk Mitigation:

Maintaining a regular maintenance to the server can mitigate attacks and provide a more secure system. We never know when an attack may happen.

Making stocks of inventory and assessing the point of vulnerability is a great way to monitor the strength of the securities.

Having a mitigation solution can help reduce risks of exposing data. A great solution to mitigate risks is by upgrading and installing new security monitoring systems.

Security Protocols:

The purpose of the IPSec is to create a secure form of communication from one computer to another in VPN. The protocols are encrypted and channel through a source to its destination.

Wireless Security:

WPA2 is the best defense for wireless network security.

Citations:

8 top strategies for Cybersecurity Risk Mitigation. (2023, February 02). Retrieved February 09, 2023, from <https://securityscorecard.com/blog/6-strategies-for-cybersecurity-risk-mitigation/>

Ashtari, H. (2022, March 25). What is network mapping? definition, process, importance, and best practices for 2022. Retrieved February 09, 2023, from <https://www.spiceworks.com/tech/networking/articles/what-is-network-mapping/>

Ghimiray, D. (2022, December 20). Retrieved February 09, 2023, from <https://www.avast.com/c-wep-vs-wpa-or-wpa2>

What is stride threat modeling | explanation and examples. (n.d.). Retrieved February 09, 2023, from <https://www.softwaresecured.com/stride-threat-modeling/>