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Module 10

"Using your favorite search engine or the resources of your library, identify firewall issues that might arise for a company that uses cloud computing in its online sales system. In about 100 words, summarize your findings in terms of the perimeter expansion problem."

As companies move over to cloud computing, several firewall issues may arise. This correlates to the idea of perimeter expansion and how it becomes harder to define and protect the network security perimeter. Cloud computing expands the ability to access confidential information from different locations, such as remote workers, third-party platforms, and multiple locations. This expands the organization's attack surface, allowing for more holes in their firewall/security system. That makes it more difficult for the firewall to control access and monitor traffic. Businesses tend to store a lot of data in the cloud, which can be a potential entry point for cyberattacks. In traditional IT setups, all the data and applications are run off a single physical Network, which makes it difficult for the information to be stolen. Now, imagine our current cloud computing setups with so many different people accessing the network from different locations, all creating a tunnel to the server that houses all that data. The use of VPNs can also help with that ever-expanding security perimeter as it offers a secure pathway into the server, offering more protection when accessing the server remotely. All in all, cloud computing offers a lot of benefits like flexibility and remote accessibility, but it also has its challenges when it comes to firewall and network security.

Sources:

https://www.sentinelone.com/cybersecurity-101/cloud-security/security-risks-of-cloud-computing/

https://www.crowdstrike.com/en-us/cybersecurity-101/cloud-security/cloud-security-risks/