

Network and Information Security Management November 2021 B

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« Collaborative Learning Discussion 1



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Summary Post

4 days ago

In relation to the work "Compromising a Medical Mannequin" by Glisson *et al* (2015)., my peers and I identified and discussed risks and weaknesses during modules 1 to 3. DOS and Brute Force assaults were identified as the two most serious threats.

The group identified one of the most popular methods of preventing DOS assaults as deploying a firewall to monitor and analyse network traffic. In response to my piece, Grace made an excellent point that firewalls might sometimes be ineffective since hackers are constantly discovering new ways to circumvent them. In one of her postings, Alice also mentioned this, quoting: "The AI firewall uses the intelligent detection engine to train threat detection models based on massive samples and continuously optimize the models based on real-time traffic data, improving threat detection capabilities (Shui, 2021)."

This prompted me to learn more about AI firewalls and how they function. I discovered that AI firewalls can protect a computer network from both unknown and known dangers without the need for human intervention, whereas normal firewalls are rule-based and can only guard against known threats. And I was encouraged by the fact that Grace found the aforementioned information useful.

Overall, this discussion topic has emphasised the importance of protecting medical devices against cyber threats, as well as the fact that these attacks can be mitigated in a variety of ways.

References:

Glisson, W., Andel, T., McDonald, T., Jacobs, M., Campbell, M. & Mayr, J. (2015) Compromising a Medical Mannequin. Sighealth.

Shui, L., 2021. What Is an AI Firewall? AI Firewalls vs. NGFWs - Huawei. [online] Huawei.

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