

Computer Security. First theory partial 2023

Name:

UO:

I am at home watching a CSI series and suddenly one of the technicians runs a nmap against the IP 83.7.285.12. Is that possible? Imagine it is; What information is typically pulled from an IP with nmap? (1 point)

A well-known Internet *influencer* that sells cybersecurity courses says that encoding is a robust encryption algorithm (indecipherable if you don't have the correct password). Is he right? (1 point)

If someone has generated a key pair for an asymmetric encryption algorithm, which of these keys do I need to encrypt messages that only he/she can read? (1 point)

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A well-known *YouTube* researcher says he has achieved an algorithm capable of obtaining a video back from its hash if it was made with the SHA-512 algorithm. Is he right or is he deceiving us? Why? (1 point)

What does digitally signing a message really consist of? (1 point)

Can you "hack" someone with *Google*? Could you give an example of what could be achieved thanks to it? (1 point)

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In my company they are throwing hard drives in the trash directly. What is your opinion of that related to the course (apart from a disastrous recycling policy 😊)? (1 point)

I suspect that one of my users has done something he or she shouldn't have done on one of my machines and I need to report this, but I don't know where I can look what he has done. What should I do to know it? (0,5 points)

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They instruct you to implement all the security controls in the CIS guide for a newly installed *Ubuntu 22.04* of your company and give you enough budget available to buy services or programs that may help you in this task. What would you do? In addition to the security advantages, what other advantages do you think it has to do so in order to "get serious" in the future and implement a security policy, such as ISO 27001? *(1 point)*

You have just created a website for a store in your neighborhood to have an online presence. What tool or tools would you use to detect security issues on that website? On that same page there are several forms when buying products and you have only done validation on the customer side. Does this carry any security risks? Is there a tool with which to skip a validation of this type? *(1,5 points)*