Assessment

Q-draft a cybersecurity policy for your college and pay particular attention to the use of USB devices in the facility.

GOAL- the implementation of these policy is mandatory to all users, if not followed then disaplinary action will be taken against the users.

Ans-1 no use of physical keyboard and on-screen keyboard for writing password (only use of virtual keyboard is mandatory (because virtual keyboard use random keys layout and on the other hand on-screen keyboard and physical keyboard uses ''QWERTY'' layout which can be easily exploited by the keylogger)

2-no use of free/public wi-fi(unsecure or unencrypted)[because data travel through free wifi or public wifi is not encrypted and which can be easily intercepted by an intruder connected to that network]

3-use of proxy or VPN for free and public wi-fi

4-use of identity and access management in all pc in college

5-access control is mandatory for limited access to all the users in college

6-surfing web with only HTTPS on port 443 with a padlock and a certificate (access of HTTP on port 80 is denied because data travel through HTTP is unencrypted and dosen't use a cryptographic protocol like SSL/TLS for secure communication)

7-use of private browser while surfing internet to safeguard from first- party and third party cookie(because cookie is a big security concern)

8-no downloading of attachments or clicking on links from unknown users in emails and report if necessary

9-use of anti-virus software (with signature based detection)

10-use of wired keyboard and wired mouse more than wireless. And same for wired Ethernet over wi-fi if possible.

11-use of cctv camera for physical security

12-total implementation of administrative controls, technical controls and physical controls for complete security

13-patch management, hotfixes and firmware upgrade is mandatory

14-security auditing in once in a month

15-ID submission before using a computer or lab entry

16- the use of USB devices in the facility is much more dangerous then we thought it is because

unknown USB devices may contains malware that can harm the computer

#if suspicious about a USB device then, no plugging the USB device directly into the main computer instead testing it on an isolated environment like virtual machine or sandbox environment where it can be reset without harming any files or system.

Thank u

Best regard

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