Professional issues

Student Name

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Question 1

a. The quality concerns associated with the open-source platforms include the security challenges which are related to security breaches. Lack of customer support and resistance is another challenge of the open-source software. The complexity associated with the open-source system makes it hard for users to operate and reap from it.

b. Example of open source software includes the Adobe Acrobat, McAfee, Microsoft word, Power Bi visualization tools. software program services, apps, and connectors that work together to turn your unrelated assets of records into coherent, interactive insights, and visually immersive. The information may be and word spreadsheet or a set of cloud-based and on-premises hybrid information warehouses. Power BI lets you without difficulty connect to your information sources, visualize and discover what's essential, and proportion that with every person or everybody you want. The open-source software is cheaper.

c. The open-source software makes the developers better programmers and when they have developed it, they tend to enhance connectivity at a cheaper cost. The open-source software is high quality with various abilities including the ability to allow shared cost, the attraction of better talents, the ability to start small, reliable information security, and do not have the vendor lock-ins.
    Developers use the open-source software to protect all the parties engaged in the open-source, owners can use a creative commons license that enables everyone to share and use the creative commons.

d. Source code escrow ensures the maintenance of the software instead of abandonment or orphaning. Hence the bespoke can be maintained instead of abandoning it in the future.

e.   Avoidance implies the development of a new strategy to avoid the one associates with the

various risks, seeking an alternative strategy that seems to succeed.

Risk acceptance and sharing refers to the acceptance of the risk and collaboration with others

in the process so as t share the responsibility for the risk activities. Many companies joint

venture to share the risks and hence reduce the effects of the risk. Reduction of the risk is the

process of investing to reduce the risk. Companies and individuals tend to employ processes

that enhance risk reduction by avoiding the strategies that are linked to risk.

Question 2

a.   The powers provide that law enforcement needs to obtain communications and data

regarding communications. This will make these powers and the safeguards that apply to

them clearly and understandable way.

The powers also allow law enforcement officers to access the internet, but not the specific

pages and not the full browsing history.

The powers also allow law enforcement officers to hack the internet information for the

national security

b.   Near Field Communication (NFC) is prone to the risk of security example the man in the

middle, twin evils, and the denial of service. They are prone to privacy attacks and data

breaches. An example of NFC is the Contact exchange in phones, configuration, online

payments, and the identity and tags.

c.   The spying technologies include the use of location tracking, Communication, and the

cameras including eavesdropping. The surveillance systems tend to invade the privacy of

people. The technological processes may be used to hack and invade the privacy of people.

d. A firewall is set in the network to provide an extra layer of security by carefully analyzing the traffic of incoming and outgoing packets in the network. Based on pre-established rules, the firewall filter packet from specious sources. Blocking of traffic from unknown sources enhances security by preventing potential attacks and theft of data from devices connected to the network. The advantage of a firewall is that it isolates devices connected to the network from external threats. The application of the firewall allows the administrator to select specific ports and connections to allow or disallow. Firewall only blocks access of outsiders into a network and does not protect against other form security threats such as Virus and Malware. Even trusted sources of traffic can be transmitting this kind of threats.

Whitelist is used to draw the list of acceptable applications, users, and other entities that can access the computer resources. This can be used to enhance privacy by ensuring that only allowed users to have access to data anything else apart from what is in the whitelist is blocked.

Advantages of whitelist if only trusted applications and users allowed to access the resources the chances of attackers gaining access to data are minimized.

Whitelisting computer programs also restrict what users can do with their systems. They can't install whatever they like, which limits their privileges and the tasks they can perform. There's also the chance that whitelisting will result in blocking traffic that you want, which is a higher chance in some applications than in others.

 The blacklisting approach involves defining which entities should be blocked. A blacklist is a list of suspicious or malicious entities that should be denied access or running rights on a network or system.

One of the biggest pros of the blacklisting approach is its simplicity. It works based on a simple principle, just identify the known and suspected threats, deny them access everything else is allowed access.

It's easy for security software providers to miss threats simply because there are so many. While blacklisting is effective against known threats, it's useless against new, unknown threats like zero-day attacks. If your organization is unlucky enough to be the first to be hit with a new kind of attack, blacklisting won't be able to stop it.

Question3

a.   Copyright is used by the upcoming company to enhance the uniqueness and make the customers identify the company using the patent intellectual property signs and the images used in the trademark. Copyright is used to protect intellectual property. Copyrights exist in the items lie the literary, musical, artistic, and dramatic work and the films,

Trademark is the copyrighted graphics that companies use to identify and protect their brands. For instance, the name of the product or the service. When one registers a trademark, one can take legal action against any person who uses their brand without permission, including the counterfeiters.

b. In the Registration of Copyrights or the Trademarks and Apply for the Patents. Companies can register the relevant copyrights or the trademarks and apply for the relevant patents in the targeted markets. So, the company will have to apply for the relevant patent in the targeted market in China.

c. The NDA is a non-disclosure agreement it is also called the confidentiality agreement (CA), confidential disclosure agreement (CDA), proprietary information or the agreement (PIA) or secrecy agreement (SA), it is a legal contract two parties which outline the confidential

material, knowledge or the information that the parties have. The purpose of this document is to establish confidentiality relationships between companies.

d. 2-way NDA is the protection of confidentiality that protects the various companies involved. While the one-way NDA protects the confidential information of one part. The two parties can use the two-way NDA to protect the confidential rights of the two companies.

e. Denial of Service attack occurs as a result of the multiple system flood of the bandwidth or the resources of a targeted system. It is usually the more or one web server. The attack is usually as a result of the compromised and the multiple systems such as the flooding of the targeted system with traffic.

To prevent and mitigate the denial of service attacks, it is important to enhance the size of the Bandwidth and make the infrastructure resistant. Making sure that there is sufficient bandwidth ensures enough space to handle any spikes in traffic which are caused due to malicious attacks. Configuration changes can help in avoiding the denial of service attacks.

Question 4

a. I will raise the aspect of the codes of conduct that I am supposed to observe as the BSC professional. The code of conduct stipulates that a BSC profession needs to follow the rules and regulations of the organization. I will need to establish control over how members should conduct themselves in the IT sector. I will assure the boss that I will perform the duties related to my profession diligently without causing conflicts with the relevant authorities. I will promote equal access to IT and seek to enhance the inclusion of all sectors. I will assume that the company enhances the use of the best strategies that will help in avoidance acceptance and reduction of risks. I will employ the processes that enhance risk reduction by avoiding the strategies that are linked to risk. I will enhance the confidentiality of the

company by enhancing the use of effective software that reduce the causes of data breaches and reduce risk occurrence to the company.

b. If the company fails to deliver the product, it could lead to the conflict with the software testing teams. Also, rapid technological advancement could make the company outdated and abandoned in the future. tools require to be updated to include market changes because of the innovations and competitive forces.

c. Outsourcing the stock inventory could lead to the security challenges which are related to security breaches. Lack of customer support and resistance is another challenge of open-source software. The complexity associated with the open-source system makes it hard for users to operate and reap from it. Increased technology and advancement could lead to increased prices leading to losses to the company.

d. When a computing graduate becomes a member of the formal professional body like the BSC, they gain various benefits. They get the chance of being recognized as the professional in their field. Getting a professional status helps them get a more senior and higher paying job. They can mix with others in their profession both professionally and socially. Becoming a member of the professional body allows the graduate to improve on the skills and the experiences. They can learn more and apply in their profession and hence become successful in their career