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<u>Assignment No : 3</u>

One possible security solution for the company could be to implement a multi-layered security system. The system could consist of several components, each of which would provide a different level of security.

At the core of the system, there could be a network firewall that would control access to the company's network. The firewall could be configured to only allow authorized users and devices to access the network, and to block all other traffic.

The company's servers and data storage systems could be protected by a combination of encryption, access controls, and authentication mechanisms. This would ensure that only authorized users could access the company's confidential data, and that the data would remain secure even if it was intercepted by an unauthorized party.

Additionally, the company could implement a system for managing user permissions and access controls. This could allow the company to grant different levels of access to different users and groups of users, depending on their roles and responsibilities within the organization. For example, employees who are responsible for maintaining personal files could be granted access to only the data they need to do their job, while employees who are authorized to access more sensitive information could be granted broader access privileges.

To further enhance security, the company could also implement a system for monitoring and detecting suspicious activity on its network. This could include intrusion detection and prevention systems, as well as regular security audits and penetration testing. This would help the company to identify and respond to any potential security threats in a timely manner.

Overall, implementing a multi-layered security system with a combination of network security, data encryption, access controls, and monitoring and detection capabilities would provide a robust and comprehensive security solution for the company.