

Research methods

Research Question

Is FIDeS an effective and possible solution to the development and application of Cybersecurity Early Warning and Detection System?

Context

Cyber security early warning and detection system is based on the development of an application that helps in alarming the occurrence or attempts being made for the possible cyber-attack in the computer system. The alarm that is provided is mostly focused on detecting the possible attack in their nascent stages with the help of the preliminary indicators, which further allows the company to detect their overall cyber defence processes. The early warning system of cyber security is a defence area, which is being carried out into the research model that is focused on changing the attack that is being attempted by the cybercriminals (Bo *et al.* 2019). There has been a potential increase in the development and conduction of cyber terrorism and cyber-attacks, which have been researched in order to obtain potential solutions for effective development of the situation based on reducing the overall occurrence of a cyber-attack. These systems are used in order to ensure that a security process is being conducted on time in order to gain success. It further allows in preventing the damages that could have occurred and helps in processing the incomplete information and alarming the respective stakeholder that might be received by the stakeholder once the attack has been completed (Zheng and Liu, 2017).

Population

For this research, quantitative research process that is based on using a survey process. The sampling method is used for selecting the security officials and then followed by simple random sampling technique method which is cost-effective need hundred samples for the project.

Comparison

In the process of surveys of sampling method, using data collected from the security officials we compared them with the practical solutions.

Outcome

By using both qualitative and quantitative research processes that are based on the development of the primary research process through survey and secondary research through journal, materials, and other sources gives the effectiveness of FIDES in the cybersecurity early warning and detection systems.