Mostafa fatayri 18/9/23

Stuxnet was a highly sophisticated computer worm that was specifically designed to target and disrupt the Iranian nuclear program. It is believed to have been developed by a nation-state, possibly the United States and Israel. The worm targeted supervisory control and data acquisition (SCADA) systems used in industrial facilities, including those in Iran's nuclear facilities. Stuxnet was primarily spread through multiple means , including exploiting various zero day vulnerabilities in Windows OS and network shares. Using this vulnerabilities it propagated itself across networks.

Upon being in the targeted system , Stuxnet would search for Siemens Programmable logic controllers that centrifuges used in the Iran nuclear enrichment process. after that it would modify the code running on these PLC to cause physical damage to the system or at least disrupt the process of production .

Stuxnet was a self replicated and it updated itself while on the target system making it difficult to detect and remove .

Reference :

Video : <https://youtu.be/iKUuuvo_cSQ?si=65XTUrCr6MU8NCzR>

I also used Chatgpt to correct my English mistakes