## Seminar 1 Preparation: Shell Global

Research

Shell Global is a global group of energy and petrochemical companies with more than 80,000 employees in more than 70 countries. We use advanced technologies and take an innovative approach to help build a sustainable energy future. (Shell Global, 2021)

Shell has been impacted by a data security incident involving Accellion’s File Transfer Appliance. Shell uses this appliance to securely transfer large data files. (Shell Global, 2021)

Eventually, four security vulnerabilities (CVE-2021-27101, CVE-2021-27102, CVE-2021-27103, CVE-2021-27104) were found to be exploited in the attacks, according to the investigation. Accellion tried to patch each subsequent vulnerability as soon as it was discovered; however, as evidenced by Shell’s disclosure, unpatched systems likely remain and further attacks seem likely. (Elizabeth,M., 2021)

Comment

Shell Global is a large global company in more than 70 countries, there is a huge amount of account data collect. In the case of the above security breach, it was caused by security vulnerabilities on the third party Accellion’s File Transfer Appliance. Several enhancements can be improved to prevent such threats.

1. The sensitive data does seem not masking and encryption during the transferring.
2. The data transfer network should be in a private segment or encrypted (SSL VPN)
3. The unauthorized access detected should be about to detect and stop by the system for the static internal data flow

Reference:

Shell Global. (2021) *About Us*. Available from: https://www.shell.com/about-us.html [Accessed 18 August 2021].

Shell Global. (Mar 16, 2021) Third-party cyber security incident impacts Shell. *Newsroom*. Available from: https://www.shell.com/energy-and-innovation/digitalisation/news-room/third-party-cyber-security-incident-impacts-shell.html [Accessed 18 August 2021].

Elizabeth, M. (March 23, 2021) Energy Giant Shell Is Latest Victim of Accellion Attacks, *threatpost.* Available from: https://threatpost.com/shell-victim-of-accellion-attacks/164973/ [Accessed 18 August 2021].