Cyber MAR

Pilot 2: Vessel navigation and automation systems

Description

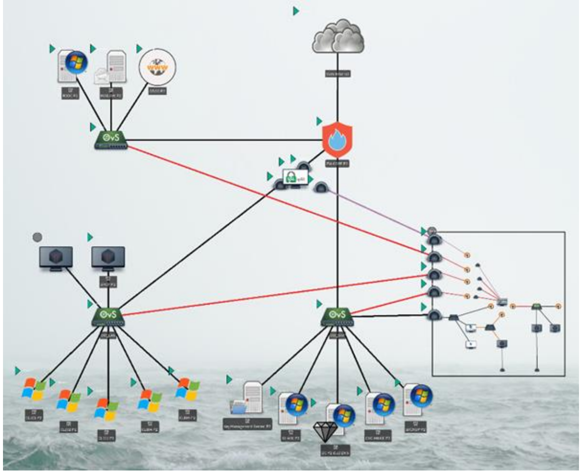
The vessel scenario demonstrated how an attacker launched an attack that allowed them to temporarily alter the course of a large container vessel and in so doing cause a blockage in the approach channel to major European port.

Progression of Attack was broken down into a number of stages:

- Downloading and Propagation of Attack (Within IT Infrastructure)
- Installing and Initiating the Attack on Vessel Control Systems (bridging the air gap)
- Attack realisation and crew response.

Objectives

The objective of the second pilot scenario was to conduct a vulnerability assessment of the vessel's navigational capabilities (e.g., navigation systems, navigation aids) to mitigate malicious attacks, to train crews to identify and mitigate such cyber-attacks, and to identify restoration and reporting procedures in case the vessel is compromised at sea. The pilot also demonstrated the distributed econometric impacts of such an attack.



Main topology deployed in the Cyber-MAR Cyber Range

Realisation

Cyber-MAR Vessel Pilot Event took place on 05.05.2022, virtually at 10.00-13.00 CE(S)T, via zoom meeting.

Material

Cyber-MAR pilot 2 material is available is the following URL: https://www.cyber-mar.eu/event/cyber-mar-vessel-pilot-event-material-access/

Cyber-MAR At a glance

Name: Cyber preparedness actions for a holistic approach and awareness raising in the MARitime logistics supply chain

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