Write-Up - SCADA Systems

There are many factors that people of the modern day depend on for everyday use, and infrastructure systems are critical for modern society. Critical infrastructure systems such as power grids, water treatment facilities, transportation networks, and manufacturing plants are the backbone of modern society, but that doesn't mean they are secure. These systems are extremely vulnerable to cyberattacks because of their dependency on technology. The reason for this is because many of these systems were built with reliability and functionality in mind, which led to them either ignoring security or not making it a priority. The consequences of this were weak cybersecurity protections. Another major vulnerability regarding critical infrastructure systems are outdated software and hardware, many of these systems are rarely hit with security updates. Making it easier for attackers to take advantage of the vulnerabilities within the system. Although SCADA systems have many vulnerabilities, it still plays a major role in mitigating risks. They provide real-time monitoring allowing them to alert workers of suspicious or questionable activity, giving the workers the ability to respond in a timely manner. SCADA systems are necessary to ensure the operations of critical infrastructure, but unfortunately they have a number of vulnerabilities due to their design and lack of cybersecurity.

SCADA Systems and Cyber Threats: A Threat Intelligence Approach