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(57) Abstract :
An automated system and method for comprehensive security assessment of industrial control systems (ICS) comprises the steps of performing comprehensive asset discovery and identify all devices, systems, and networks connected to the ICS environment; scanning ICS networks to identifying potential security weaknesses and vulnerabilities; detecting advanced persistent threats (APTs) and other malicious activity that could compromise the ICS environment; and prioritizes security risks based on the potential impact, allowing organizations to focus on the most critical issues first. The system demonstrate compliance with industry regulations and standards, such as NIST, IEC, and ISA/IEC 62443.The system provides real-time monitoring of ICS systems to detect and alert organizations to potential security incidents and customized to meet the specific needs of an organization, including the type of ICS systems, industry regulations, and security standards. The system having user-friendly interface that makes it easy to use, even for non-technical users. The system provides a comprehensive report that details the results of security assessments, including recommendations for remediation and can be integrates with SIEM systems to provide a centralized view of ICS security.

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