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A SCADA Work for supervisory control and data acquisition is a system where it's very crucial to manage critical infrastructure while using its utilities such as electricity water gas or any other transportation systems this specific system can monitor operations 24/7 in real time which will also could make it essential and safe efficient Can also provide great uninterrupted services but however as the infrastructure became more you digitalized and online the supervisory control and data acquisition Systems could face a Very big issue while making cyber security it's main focus.

A specific key vulnerability is the age of the specific SCADA System a lot of them were first discovered way before cyber security was a widespread issue or concern so they kind of have a lack of sort of a modern look for instance they also relied on protocols that operated in isolated networks which provided some security with combating external threats such as malware and cyber attacks through integrated It Networks.

And conclusion the supervisory control and data acquisition systems provide essential and also great functionality for its obvious great infrastructure they are always to develop a lot of vulnerable cyber threats securing these systems require a lot of updating and software and also rigorous employee training and very close to monitoring by implementing these tactics the systems would protect vital services in our cyber world.

References

Supervisory Control and Data Acquisition (SCADA) Systems - National Institute of Standards and Technology (NIST)

Department of Homeland Security (DHS). "Cybersecurity and Infrastructure Security Agency."