



Manage Your Risk Through Cyber Resiliency

Resiliency, Situational Awareness &
Preparedness for Critical Infrastructure

Cyber Vulnerability Assessment

Problem	Cause	Solution	Benefit
<ul style="list-style-type: none">• Constant flow of newly discovered vulnerabilities• Configuration changes or evolutions introduce new weaknesses	<ul style="list-style-type: none">• Malicious parties attempting to gain unapproved access• Software coding errors• Regulatory requirements• Gaps in coordination and awareness	<ul style="list-style-type: none">• Vulnerability scans to identify potential vulnerabilities and threats• System patching• OT Testing and device hardening	<ul style="list-style-type: none">• Identifies patching priority based on criticality• Identification of known vulnerabilities• Enhanced security across the network

Scope of supply: The activities below are conducted and documented:

- Based on either NIST, NERC CIP, IEC 62443 -3-3 & -2-2, ISO 27001, other
- Identification of Electronic Security Parameter (ESP) / Secure Zones & Conduits
- Identification of all ports and services
- Identification of security weaknesses in the target systems
- Entire network and port scans including internal routers, firewalls and switches
- Review of the remote access paths and configuration.
- Ranking of each detected vulnerability to Critical, High, Medium, and Low impact category.

- Assessments of access management, account configurations
- Identification of vulnerabilities or potential threats
- Detailed Cyber Vulnerability Assessment (CVA) documentation of results and assessed systems

Hardening Services

Problem	Cause	Solution	Benefit
<ul style="list-style-type: none">• Devices and endpoints are often configured using manufacture default configurations which tend to be insecure• Unhardened endpoints are easy attack vectors• Need to align with best practices and customer security policy• Antivirus is not part of the standard build	<ul style="list-style-type: none">• Common misconfigurations or not optimal security configurations with defaults• IT department is focused on operations vs. security	<ul style="list-style-type: none">• Configure settings on endpoints and other systems using “secure hardening standards” (configuring system firewall, AV, MAC address filtering, application whitelisting, etc.)	<ul style="list-style-type: none">• Common misconfigurations are unable to be exploited• Attack surface reduction (limiting available and open services and ports running)• Overall security within the environment is substantially increased• Helps meet various cyber standards (e.g. ISO, etc.)....

Examples of hardening measures:

- Enable password complexity requirements (where applicable)
- Enable port monitoring
- Enable MAC filtering on utilized physical ports
- Enable scripted hardening tasks
- Verify logon banner exists
- Disable non-critical OS user accounts

- Setup of **System and Network Logging** (optional)
- **Hardened firewall rules** and the access control lists (optional)
- Activation of the **Application Whitelisting** feature (optional)
- Evaluation of **secure backup and recovery** systems and procedures (optional)
- **Security Patch and Anti-Malware updates** application (optional)
- Application of **system security policies and procedures** (optional)
- **Disabling unutilized ports** and services (Physical and Virtual) (optional)
- **Encryption** of required communication ports (optional)
- **Password enforcement** on all systems where technically feasible (optional)

Your Critical Infrastructure Cybersecurity Contacts -

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