

Solution Overview

The objective of System Hardening is to identify common vulnerabilities and mitigate these risks with technical controls that will allow System 1* to operate in a reliable and predictable manner. Server hardening is a critical part in the implementation of a “defense in depth” information security program. Unfortunately, there is not a one-size-fits-all or a scripted solution when it comes to server hardening. The tasks required to harden an email server or file server are different from hardening an application server, such as System 1.

How It Works

Bently Nevada has developed a set of technical controls to provide an additional layer of security. There are several factors that determine the implementation of these controls. These factors include but are not limited to: installed data collection modules, CS/DCS/ICSS integration techniques, and domain or workgroup membership.

A qualified Bently Nevada field service engineer can implement these controls.

The following section describes some of the items that may be implemented. The actual list will vary depending on each customer installation to ensure the system(s) are properly protected.

Hardware Hardening

Implement security for server BIOS, drivers, software and USB ports.

Operating System Hardening

- Approved operating system patches and updates (one time or periodic)
- Anti-virus protection and updates (one time or periodic)

- File, directory and share security
- Services
- TCP/UDP listening ports
- Strong password enforcement
- Account validation
- Registry configuration
- Event logging configuration

Application Hardening

- System 1 role-based access control implementation
- Terminal server and SQL server secure configuration
- System 1 security manager configuration

Assumptions/Contract Requirement

The following are required for each system within the scope of work:

- Physical access to all systems within the scope of the implementation
- Administrative level access to all systems within the scope of work
- The appropriate permit to work on each system

Value

Upon completion of the System Hardening service the security footprint of the server(s) will be reduced, thus reducing the risk of the said server(s) from becoming a conduit for malicious attacks.



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