

## **Consensus Policy Resource Community**

## **Server Security Policy**

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**Things to Consider:** Please consult the Things to Consider FAQ for additional guidelines and suggestions for personalizing the SANS policies for your organization.

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### 1. Overview

Unsecured and vulnerable servers continue to be a major entry point for malicious threat actors. Consistent Server installation policies, ownership and configuration management are all about doing the basics well.

## 2. Purpose

The purpose of this policy is to establish standards for the base configuration of internal server equipment that is owned and/or operated by <Company Name>. Effective implementation of this policy will minimize unauthorized access to <Company Name> proprietary information and technology.

# 3. Scope

All employees, contractors, consultants, temporary and other workers at <Company Name> and its subsidiaries must adhere to this policy. This policy applies to server equipment that is owned, operated, or leased by <Company Name> or registered under a <Company Name>-owned internal network domain.

This policy specifies requirements for equipment on the internal <Company Name> network. For secure configuration of equipment external to <Company Name> on the DMZ, see the Internet *DMZ Equipment Policy*.

# 4. Policy

- 4.1 General Requirements
- 4.1.1 Approved by InfoSec. Operational groups should monitor configuration adulated and implement an exception policy tailored to their environment. Each operational group must establish a process for changing the configuration guides, which includes review and approval by InfoSec. The following items must be met:

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- Servers must be registered within the corporate enterprise management system. At a minimum, the following information is required to positively identify the point of contact:
  - Server contact(s) and location, and a backup contact
  - o Hardware and Operating System/Version
  - o Main functions and applications, if applicable
- Information in the corporate enterprise management system must be kept up-to-date.
- Configuration changes for production servers must follow the appropriate change management procedures
- 4.1.2 For security, compliance, and maintenance purposes, authorized personnel may monitor and audit equipment, systems, processes, and network traffic per the *Audit Policy*.

### 4.2 Configuration Requirements

- 4.2.1 Operating System configuration should be in accordance with approved InfoSec guidelines.
- 4.2.2 Services and applications that will not be used must be disabled where practical.
- 4.2.3 Access to services should be logged and/or protected through access-control methods such as a web application firewall, if possible.
- 4.2.4 The most recent security patches must be installed on the system as soon as practical, the only exception being when immediate application would interfere with business requirements.
- 4.2.5 Trust relationships between systems are a security risk, and their use should be avoided. Do not use a trust relationship when some other method of communication is sufficient.
- 4.2.6 Always use standard security principles of least required access to perform a function. Do not use root when a non-privileged account will do.
- 4.2.7 If a methodology for secure channel connection is available (i.e., technically feasible), privileged access must be performed over secure channels, (e.g., encrypted network connections using SSH or IPSec).
- 4.2.8 Servers should be physically located in an access-controlled environment.
- 4.2.9 Servers are specifically prohibited from operating from uncontrolled cubicle areas.

#### 4.3 Monitoring

- 4.3.1 All security-related events on critical or sensitive systems must be logged and audit trails saved as follows:
  - All security related logs will be kept online for a minimum of 1 week.
  - Daily incremental tape backups will be retained for at least 1 month.
  - Weekly full tape backups of logs will be retained for at least 1 month.
  - Monthly full backups will be retained for a minimum of 2 years.

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- 4.3.2 Security-related events will be reported to InfoSec, who will review logs and report incidents to IT management. Corrective measures will be prescribed as needed. Security-related events include, but are not limited to:
  - Port-scan attacks
  - Evidence of unauthorized access to privileged accounts
  - Anomalous occurrences that are not related to specific applications on the host.

## 5. Policy Compliance

### 5.1 Compliance Measurement

The Infosec team will verify compliance to this policy through various methods, including but not limited to, periodic walk-thrus, video monitoring, business tool reports, internal and external audits, and feedback to the policy owner.

#### 5.2 Exceptions

Any exception to the policy must be approved by the Infosec team in advance.

### 5.3 Non-Compliance

An employee found to have violated this policy may be subject to disciplinary action, up to and including termination of employment.

## 6 Related Standards, Policies and Processes

- Audit Policy
- DMZ Equipment Policy

### 7 Definitions and Terms

The following definition and terms can be found in the SANS Glossary located at: https://www.sans.org/security-resources/glossary-of-terms/

De-militarized zone (DMZ)

# **8 Revision History**

Date of Change	Responsible	Summary of Change
June 2014	SANS Policy Team	Updated and converted to new format.
November 2016	SANS Webmaster	Fixed Document Typo