



Password Construction Guidelines

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

Last Update Status: *Updated October, 2017*

1. Overview

Passwords are a critical component of information security. Passwords serve to protect user accounts; however, a poorly constructed password may result in the compromise of individual systems, data, or network. This guideline provides best practices for creating secure passwords.

2. Purpose

The purpose of this guidelines is to provide best practices for the created of strong passwords.

3. Scope

This guideline applies to employees, contractors, consultants, temporary and other workers, including all personnel affiliated with third parties. This guideline applies to all passwords including but not limited to user-level accounts, system-level accounts, web accounts, e-mail accounts, screen saver protection, voicemail, and local router logins.

4. Statement of Guidelines

Strong passwords are long, the more characters you have the stronger the password. We recommend a minimum of 14 characters in your password. In addition, we highly encourage the use of passphrases, passwords made up of multiple words. Examples include “*It’s time for vacation*” or “*block-curious-sunny-leaves*”. Passphrases are both easy to remember and type, yet meet the strength requirements. Poor, or weak, passwords have the following characteristics:

- Contain eight characters or less.
- Contain personal information such as birthdates, addresses, phone numbers, or names of family members, pets, friends, and fantasy characters.
- Contain number patterns such as aaabbb, qwerty, zyxwvuts, or 123321.
- Are some version of “Welcome123” “Password123” “Changeme123”



In addition, every work account should have a different, unique password. To enable users to maintain multiple passwords, we highly encourage the use of ‘password manager’ software that is authorized and provided by the organization. Whenever possible, also enable the use of multi-factor authentication.

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

None.

7 Definitions and Terms

None.

8 Revision History

Date of Change	Responsible	Summary of Change
June 2014	SANS Policy Team	Separated out from the Password Policy and converted to new format.
October, 2017	SANS Policy Team	Updated to reflect changes in NIST SP800-63-3