



# Password Construction Policy

**ChilledWeb Limited**

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## 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 the network. This policy provides best practices for creating secure passwords.

## Purpose

The purpose of this policy is to provide best practices for the creation of strong passwords.

## Scope

This policy applies to employees, contractors, consultants, temporary and other workers at ChilledWeb, including all personnel affiliated with third parties. This policy 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 network device logins.

## Policy

All passwords should meet or exceed the following guidelines:

Strong passwords have the following characteristics:

- Contain at least 12 alphanumeric characters.
- Contain both upper and lower case letters.
- Contain at least one number (for example, 0-9).
- Contain at least one special character (for example, !\$%^&\*()\_+|~-=\`{}[]:;,<>?,/).

Poor, or weak, passwords have the following characteristics:

- Contain less than eight characters.
- Can be found in a dictionary, including foreign language, or exist in a language slang, dialect, or jargon.
- Contain personal information such as birthdates, addresses, phone numbers, or names of family members, pets, friends, and fantasy characters.
- Contain work-related information such as building names, system commands, sites, companies, hardware, or software.
- Contain number patterns such as aaabbb, qwerty, zyxwvuts, or 123321.
- Contain common words spelled backward, or preceded or followed by a number (for example, terces, secret1 or 1secret).



- Are some version of "Welcome123" "Password123" "Changeme123"

You should never write down a password. Instead, try to create passwords that you can remember easily. One way to do this is create a password based on a song title, affirmation, or other phrase. For example, the phrase, "This May Be One Way To Remember" could become the password TmB1w2R! or another variation.

(NOTE: Do not use either of these examples as passwords!)

### **Passphrases**

Passphrases generally are used for public/private key authentication. A public/private key system defines a mathematical relationship between the public key that is known by all, and the private key, that is known only to the user. Without the passphrase to unlock the private key, the user cannot gain access.

A passphrase is similar to a password in use; however, it is relatively long and constructed of multiple words, which provides greater security against dictionary attacks. Strong passphrases should follow the general password construction guidelines to include upper and lowercase letters, numbers, and special characters (for example, TheTrafficOnThe101Was\*!\$ThisMorning!).

### **Exceptions**

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

### **Non-Compliance**

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