

Password Policy

1.0 Overview

Passwords are an important aspect of computer security. They are the front line of protection for user accounts. A poorly chosen password may result in the compromise of Drake State Community and Technical College's entire corporate network. As such, Drake State employees (including contractors and vendors with access to Drake State systems) access that supports or requires a password) on any system that requires access to the Drake State network, or stores any public Drake State information.

4.0 Policy

4.1 General

- x All system-level passwords (e.g., root, application administration accounts) changed on at least a quarterly basis.
- x All user-level passwords (e.g., email, web, desktop computer, etc.)

- o Computer terms and names, commands, sites, companies, hardware, software.
- o Birthdays and other personal information such as addresses and phone numbers.
- o Word or number patterns like aaabbb, qwerty, zyxwvuts, 123321, etc.
- o Any of the above spelled backwards.
- o Any of the above preceded or followed by a digit (e.g., secret1, 1secret)

Strong passwords have the following characteristics:

- x Contain both upper and lower case characters (e.g. AaZ)
- x Have digits and punctuation characters as well as letters (e.g. @#%&*()_+!~=\{}[]:";'<>?,./)
- x Are at least fifteen alphanumeric characters long and is a password (stuffedmyt0e)
- x Are not a word in any language, slang, dialect, jargon, etc.
- x Are not based on personal information, names of family, etc.
- x Passwords should never be written down or stored in the Try to create passwords that can be easily remembered. One way to do this is create a password based on a song title, affirmation, or other phrase. For example, the phrase might be: "This May Be Hard to Remember" and the password could be: "TmB1w2R!" or "Tmb1W>r~" or some other variation.

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

B. Password Protection Standards

Do not use the same password for Drake State accounts as for other non-Drake State access (e.g., personal ISP accounts, social media, personal email, etc.). Where possible, do not use the same password for various Drake State access needs. F"23d [(no)-6 (t)] 0 Td [u [(D)-3w 0.497 0 (acces94)5.67ato

If an account or password is suspected to have been compromised, report the incident to the helpdesk and change all passwords.

Password cracking or guessing may be performed on a periodic or random basis by the IT. If a password is guessed or cracked during one of these scans, the user will be required to change it.

C. Application Development Standards

Application developers must ensure that programs contain the following security precautions.

Applications:

- x should support authentication of individual users, not groups.
- x should not store passwords in clear text or in any easily reversible form.
- x should provide for some sort of role management, such that one user can take over the functions of another without having to know the other's password.
- x should support TACACS+ , RADIUS and/or X.509 with LDAP security retrieval, wherever possible.

D. Use of Passwords and Passphrases for Remote Access Users

Access to the Drake State Network via remote access is to be controlled using either a one password authentication or a public/private key system with a strong passphrase in addition to multifactor authentication

E. Passphrases

Passphrases are generally 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.

Passphrases are not the same as passwords. A passphrase is a longer version of a password and is, therefore, more secure. A passphrase is typically composed of multiple words. Because of this, a passphrase is more secure against "dictionary attacks."

A good passphrase is relatively long and contains a combination of upper and lowercase letters and numeric and punctuation characters. An example of a good passphrase:

"The*?#>*@TrafficOnThe101Was*&#!#ThisMorning"

All of the rules above that apply to passwords apply to passphrases.

5.0 Enforcement

Any employee found to have violated this policy may be subject to disciplinary action