

# Tools for managing multiple passwords

Passwords should not be stored in cleartext

## Local

- **1Password** – <https://agilebits.com/onepassword>
- **IronKey** – <https://www.ironkey.com/news/verisign-ironkey-otp-password-service>
- **KeyPass** – <http://keepass.info/>
- **PasswordSafe** – <http://passwordsafe.sourceforge.net/>

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## Hosted

- **LastPass** – Best used with two-factor authentication, such as **YubiKey**, **Google Authenticator**, or other option (<http://twofactorauth.org/>)
- Note: There always a possibility of a **breach** of the vendor

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Password managers heavily rely upon a long and strong master password. One suggestion is to use an algorithm to create unique passwords based upon the site name or some other criteria. A tactic to consider is the use of a *pass phrase* versus *password*, as such emphasizes the length. Some good examples can be found at:

- <http://www.dc214.org/notes/july2005/Mnemonic-Password-Algorithms.pdf>
- <http://www.seas.ucla.edu/security/passwords.html>

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