Secrets Management with GnuPG, Pass and Git

Walter Vargas <waltervargas@linux.com>

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1 GPG

gpg is the OpenPGP part of the GNU Privacy Guard (GnuPG). It is a tool to provide digital encryption and signing services using the OpenPGP standard. gpg features complete key management and all the bells and whistles you would expect from a full OpenPGP implementation.

1.1 Install

```
1 $ sudo apt-get install gnupg
```

1.2 Generate a 4096 Key

This command will request your name and your email, what I am doing is using my personal email for this key, please remember to chose 4096 as the key length and RSA key type (default).

```
1 $ gpg --gen-key --full-generate-key
```

2 Pass

`pass` is a very simple password store that keeps passwords inside gpg2 encrypted files inside a simple directory tree residing at `~/.password-store`.

The pass utility provides a series of commands for manipulating the password store, allowing the user to add, remove, edit, synchronize, generate, and manipulate passwords.

2.1 Pass Setup

2.1.1 Pass Init

Use `pass init [gpg id]`, in this case my gpgid is waltervargas@linux.com

```
1 $ pass init waltervargas@linux.com
```

2.1.2 Pass Git Init

```
1 $ pass git init
```

2.2 Pass Operations

2.2.1 Generate and Store a Password

```
1 $ pass generate Work/gemalto
```

2.2.2 Copy password to clipboard

```
1 $ pass -c Work/gemalto
```