

Requisite Bio Slide I have been doing things to computers for a long time. During the day I am a computer security consultant at a big company. I teach in the afternoons. Some of my background is at this link https://g.dev/franklin



Step One: Admit That You Have a Problem

Most of us have a (reasonable?) expectation of trust for the files on our local machine. And so, we leave things like saved passwords and other credentials and secrets pasted into text files for quick access.



Figure 1: You



Setting Up your Haunted Stash House

These are the basic setup steps so you have a place to hide your secrets.

- Create a repository on GitHub or other revision control system.
- Install the framework (demo soon).
- Set up your GPG key.
- Add items to DB, remove plain text tokens and secrets.
- In the following slides we will break each of these items down.











Finding and Protecting Secrets

What is it you want to protect?



The Process of Finding Secrets

- Look around your local machines for tokens and credentials
- Use some automation to help you find them

Demo Script: Scanning Your Local System

► Here is a small tool that you can use/modify for your system

Hide Your Goodies

We found the secrets, now what?

Setting up GnuPG

Install GnuPG in your shell so you can encrypt thing

Storing Tokens at Rest

We will use a tool called pass in combination with out GnuPG key to encrypt the secrets we found.

- Okay we found some, now what?
- ▶ Encrypt the tokens and push them into a Revision Control System
- Could be a "private repo" but it doesn't have to

Saving Simple Tokens

Use the pass tool to encrypt the tokens and push them into Revision Contro

Saving Multi-line Tokens

Use pass to encrypt a multi-line secret and push it into Revision Contro

Backing up Tokens to RCS

- Encrypt the tokens and secrets
- Push everything into revision control.

Using Your Stashed Tokens

How to Use What You Built

Using Tokens

Now you can use the secrets in your project without exposing them

Considerations

You need your GPG key on the local machine to encrypt, decrypt, and use the secrets.

Other Cool Stuff

Where is all this going?

Keyringer

- ▶ I discovered this other cool tool.
- ▶ I will incorporate it into this ...toolkit

Nosti

- ▶ Been experimenting with the decentralized ideas from the coin mining world
- I here are all sorts of apps and clients out there

demo container

I here is a container file in the project repo