

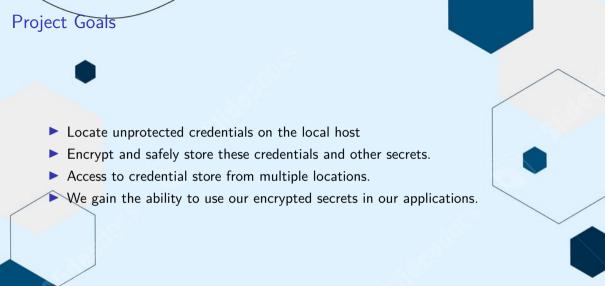
# Introduction

The Lost Art of Keeping a Secret

### 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.





### 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?

### What Do We Mean by Secrets, Exactly

- Credentials for example a username/password for that lab host that you only need for a couple weeks.
- ► Text files that are used as keys.

### 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?



### 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.





### 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



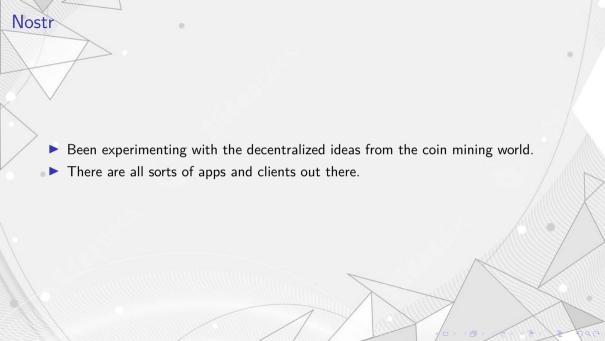


# Other Cool Stuff

Where is all this going?

### Keyringer

- ▶ I found a tool called "keyringer" that is supposed to do all this already.
- "Keyringer lets you manage and share secrets using GnuPG and Git in a distributed fashion."
- ▶ I will incorporate it into this ...toolkit?



# Kerberos and OpenLDAP

- Research if there is any possible overlap.
- Integration with Kerberos on a LAN?







