



# Federal Reserve Bank - Injection

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## What is the Fed Bank - Injection Project?

Our project is a web-based application that will support the Federal Reserve in transitioning to quantum-safe encryption methods, reducing the risk of data exposure to quantum computing threats.

We are creating a network 'sniffer' that finds encryption and provides insight into the application/system/service using that encryption. It would provide an inventory of encryption usage.

## Problem Statement

The Federal Reserve Bank of Philadelphia is a part of the US' central bank that seeks to promote the stability and integrity of the nation's economic systems.

However, with the rise of Quantum Computing, algorithms, such as Peter Shor's, are being developed in a way that can easily break the current encryptions we use to safeguard our data.

**Home** **Results**

### Quantum-safe Encryption Baseline Identification Tracker Homepage

**How to use:**

This icon represents the network search. Once selected on the navbar, a prompt to enter a username and a password for a file server on the network will show. Once this information is entered, a network search can begin based on different filters, such as: date, file type, location, and more. After a search is complete, the results will show on a separate page and they can be exported from there.

This icon represents the database search. Once selected on the navbar, a prompt to enter a URI. Once this is inputted, a database search can begin based on different filters, such as: date, file type, location, and more. After a search is complete, the results will show on a separate page and they can be exported from there.

This icon represents the save search logs to database functionality. Once selected on the navbar, a prompt to enter a URI.

## Use Cases

- Network Search: searches a given network based on filters provided by the user
- Database Search: allows for someone to look and see what files have already been found or what directories have already been searched
- Save Search / Results Logs: allow a user to save whatever log they want to the database for later inspection
- Export Search Results: allow a user to save any search result log to their hard-drive

## Tool Overview

- HTML, CSS, JS - Front End
- Flask, Werkzeug - Back End
- Python - Programming Language
- VSCode - IDE
- MongoDB - Database
- JIRA, Confluence - Project Management
- Outlook, Teams - Collaboration
- Docker, Github - Version Control



ID	File Name	File Location	Date	Encryption
1982066	plain_aesenc.exe	/home/ccuser/test_files/aes_files/plain_aesenc.exe	1747671356	true
1982077	plain_aesenc.jpg	/home/ccuser/test_files/aes_files/plain_aesenc.jpg	1747671356	true
1982088	plain_aesenc.mp3	/home/ccuser/test_files/aes_files/plain_aesenc.mp3	1747671356	true
1982104	plain_aesenc.txt	/home/ccuser/test_files/aes_files/plain_aesenc.txt	1747671357	true
1982109	plain_aesenc.zip	/home/ccuser/test_files/aes_files/plain_aesenc.zip	1747671358	true
1982133	plain.exe	/home/ccuser/test_files/base_files/plain.exe	1747671358	true
1982138	plain.jpg	/home/ccuser/test_files/base_files/plain.jpg	1747671358	false
1982142	plain.mp3	/home/ccuser/test_files/base_files/plain.mp3	1747671359	true
1982161	plain.txt	/home/ccuser/test_files/base_files/plain.txt	1747671359	false
1982167	plain.zip	/home/ccuser/test_files/base_files/plain.zip	1747671359	false

Showing 1 to 10 of 1,064 entries

Previous 1 2 3 4 5 ... 107 Next

[Export Results to File](#)

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