

# Plan (Non-Technical Version)

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Tuesday, January 14, 2025 8:00 AM

## End goal:

- AI model based on NIST SP 800-40 R4
- Collect update and patch information from Windows and Debian systems
- Analyze collected update information to assess vulnerabilities, patch status, and compliance with NIST 800-40 R4
- Generate report based on NIST guidelines, inventory, prioritization, compliance status

## Required components:

- Agent running on Windows / Debian systems to gather OS update data and send to centralized server
- Centralized server
  - Collect / aggregate OS update data
    - Data to send to server (no AI involved):
      - Date / Time
      - OS Name
      - OS Version
      - Computer Name
      - IP Address of computer
    - Data to send to server (AI portion):
      - List of security updates available
  - Run data through AI model (analyzing update information, prioritize patches), use this data for the report
    - Rank available updates based on security severity
  - Compile report with all information given to server
  - Web Interface
    - Generate NIST-compliant report based on AI output of information
    - Ability to download report as PDF or DOCX

## Current Issues:

- Agent script that sends computer info to the server is only built to handle one computer
- Passwords are required when running the script
- Passwords are required when running SCP commands (last 2 lines of script)

