

NOMADS Development Plan

Team Name: MAN^2

Members:

- Nick Arenberg
- Nick Mattair
- Andy Ho
- Matthew Chen
- Max Medearis

Planned Features

1. **Security Audit - Upload list of programs; check against what is installed**
 - 1.1. Any program for which the list version and computer differ will create an out-of-date notification
 - 1.2. Any programs not on the list will create an unapproved notification
 - 1.3. Plant bad example for demo
 - 1.4. Any known *bad* programs will create an alert
2. **DeepScan - Multi-level network scanning [HIGH PRIORITY]**
 - 2.1. Set up testing environment with routing capabilities
 - 2.2. ARP
 - 2.3. Detect a router
 - 2.4. Log into router
 - 2.5. Fetch router ARP table + integrate with other data
 - 2.6. Interactive network diagram
3. **Static Visualization - Navy format network diagram and spreadsheet [HIGH PRIORITY]**
 - 3.1. Programmatically generate drawio diagram given netscan data
 - 3.1.1. Export to Microsoft Visio
 - 3.1.2. Display an export preview of drawio file in-app
4. **Dynamic Visualization - View and manipulate network data from existing or new netscan**
 - 4.1. Display netscan data in UI
 - 4.1.1. Generate a diagram with dropdowns for each machine
 - 4.1.2. Display diagram in-app
 - 4.2. Be able to choose from list of old netscan instances
5. **Make It Look Good - Improve UI/UX**
 - 5.1. Create concept for UI design
 - 5.2. Add list upload functionality
 - 5.3. Display data in spreadsheet
 - 5.4. Display Network Diagram

- 5.5. Be able to visually retrieve previous instances of runner and display these old results visually
- 5.6. Make It Look Good™

Sprint-by-Sprint Breakdown

- **Sprint 1:**
 - Set up testing environment with routing capabilities (2.1)
 - Detect a router (2.2)
 - Generate a drawio file and export to visio (3.1)
 - Display an export preview in-app (3.1.2)
 - Create a concept for UI design (5.1)
 - Be able to choose from list of old netscan instances (4.2)
- **Sprint 2:**
 - Add list upload functionality (5.2)
 - Any program for which the list version and computer differ will create an out-of-date notification (1.1)
 - Any programs not on the list will create an unapproved notification (1.2)
 - Log into router (2.3)
 - Fetch router ARP table + integrate with other data (2.4)
- **Sprint 3:**
 - Display data in spreadsheet format in the runner (5.3)
 - Display interactive Network Diagram (5.4)
 - Retrieve older data and display (5.5)
 - Make It Look Good (5.6)
- **Sprint 4:**
 - Testing
 - Plan Presentation
 - Practice Presentation