



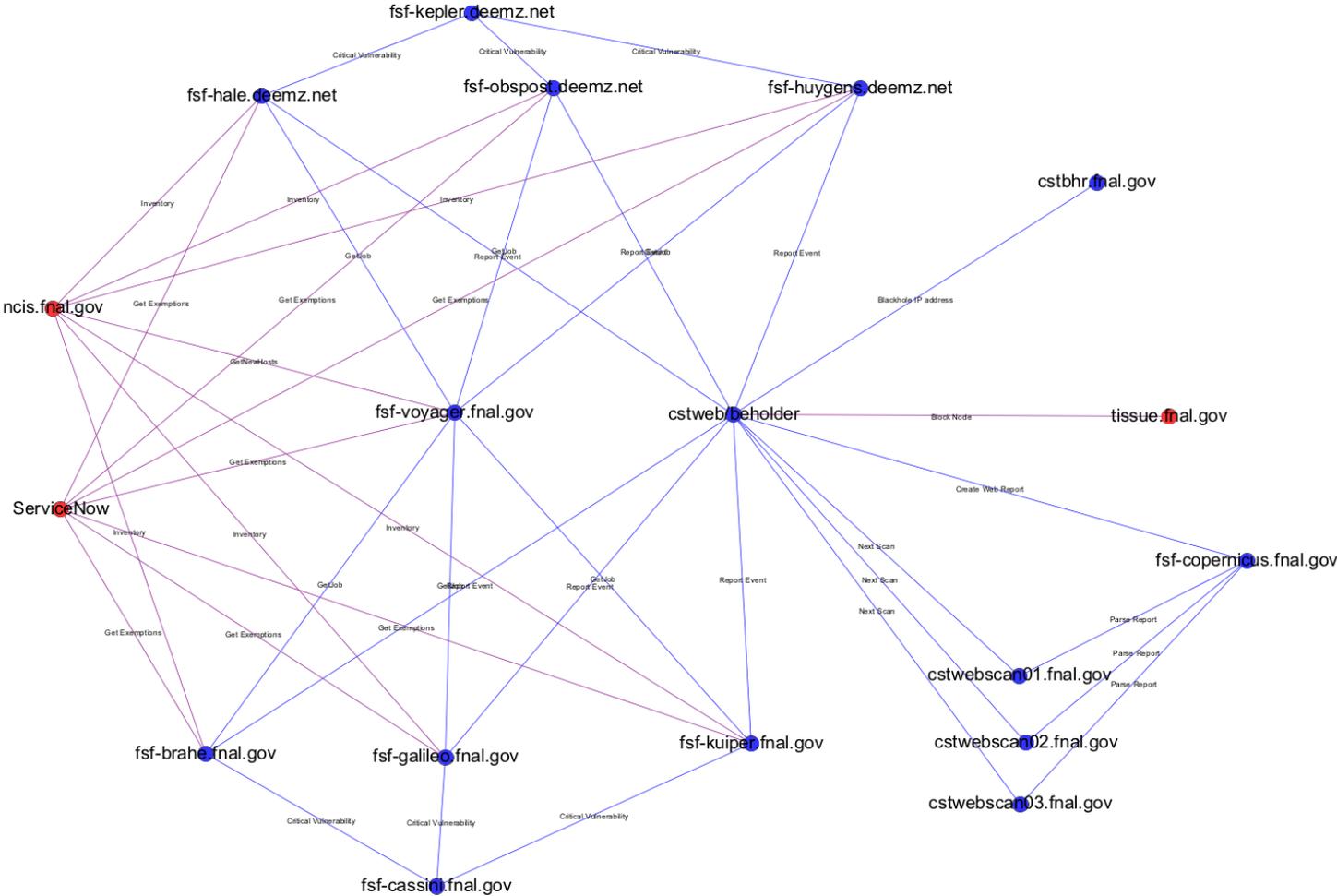
Managed by Fermi Research Alliance, LLC for the U.S. Department of Energy Office of Science

Beholder: Automated Scanning and Detection System

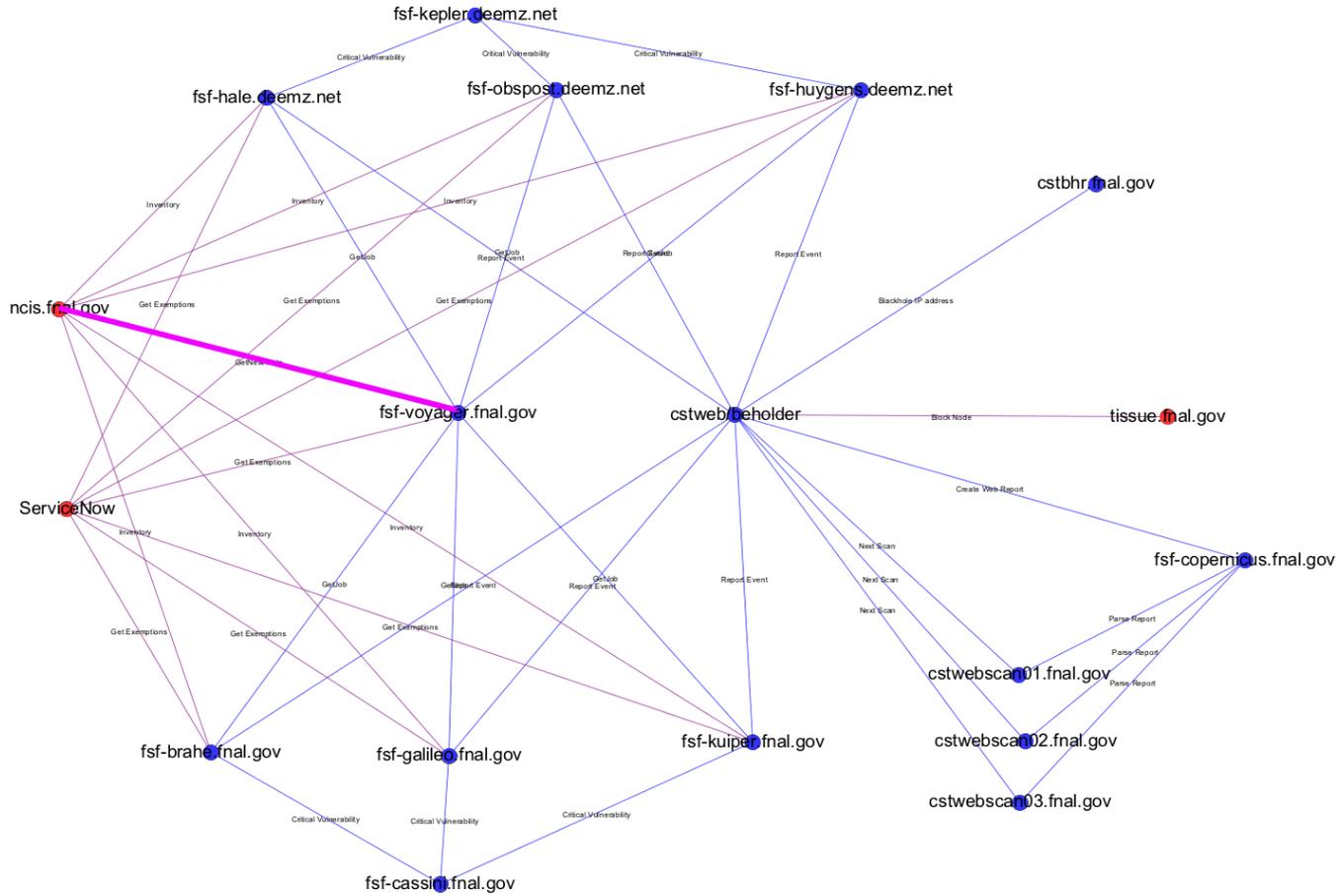
Beholder Overview

- Comprehensive integration of cybersecurity detectors, scanners and blockers
- Takes output from various sensors and assigns output to appropriate blocking and reporting utility
- Sensors detect network and application vulnerabilities
- Written in Ruby utilizing the Rails framework
- Developed by Jason Ormes at Fermilab starting in 2013

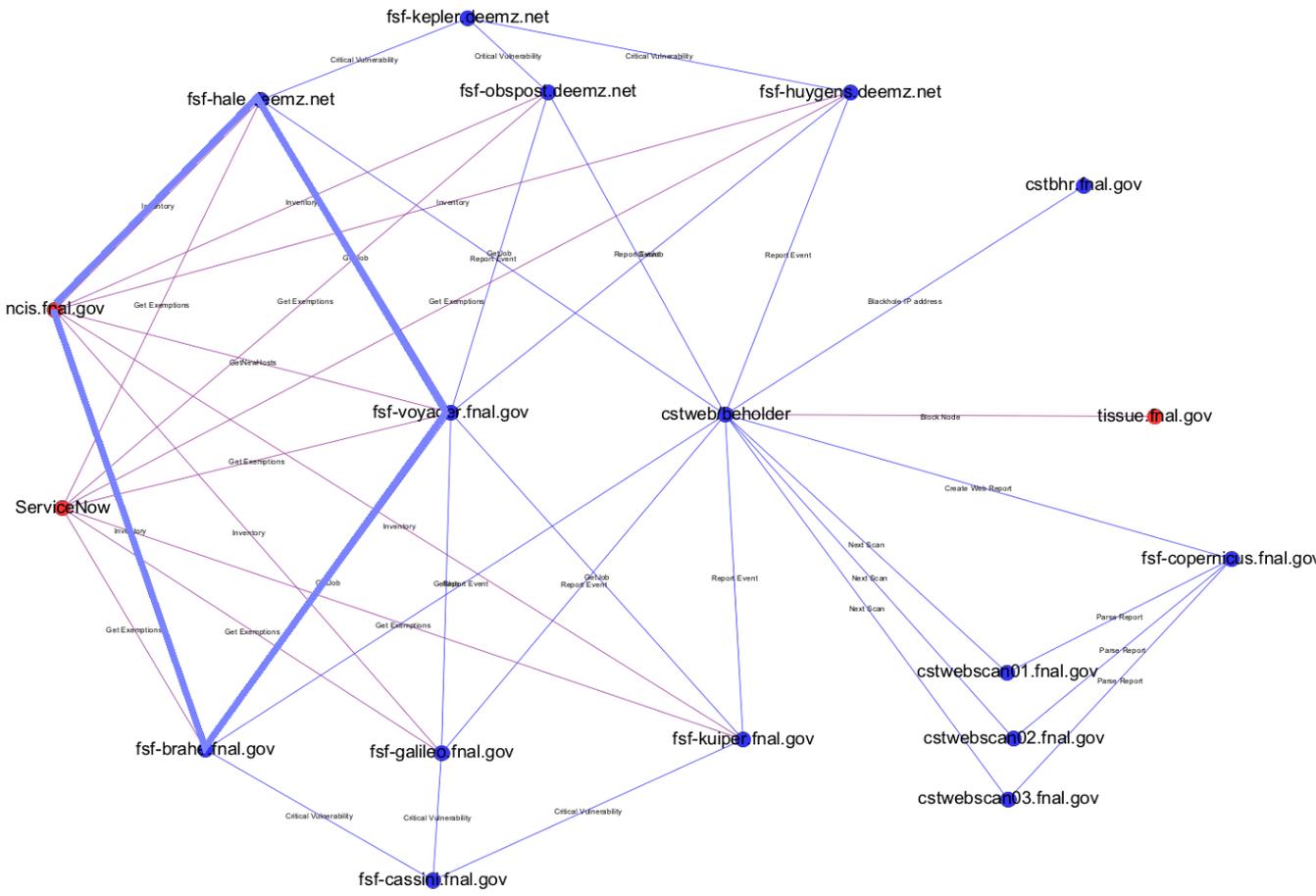
Layout of the Active Scanner Farm



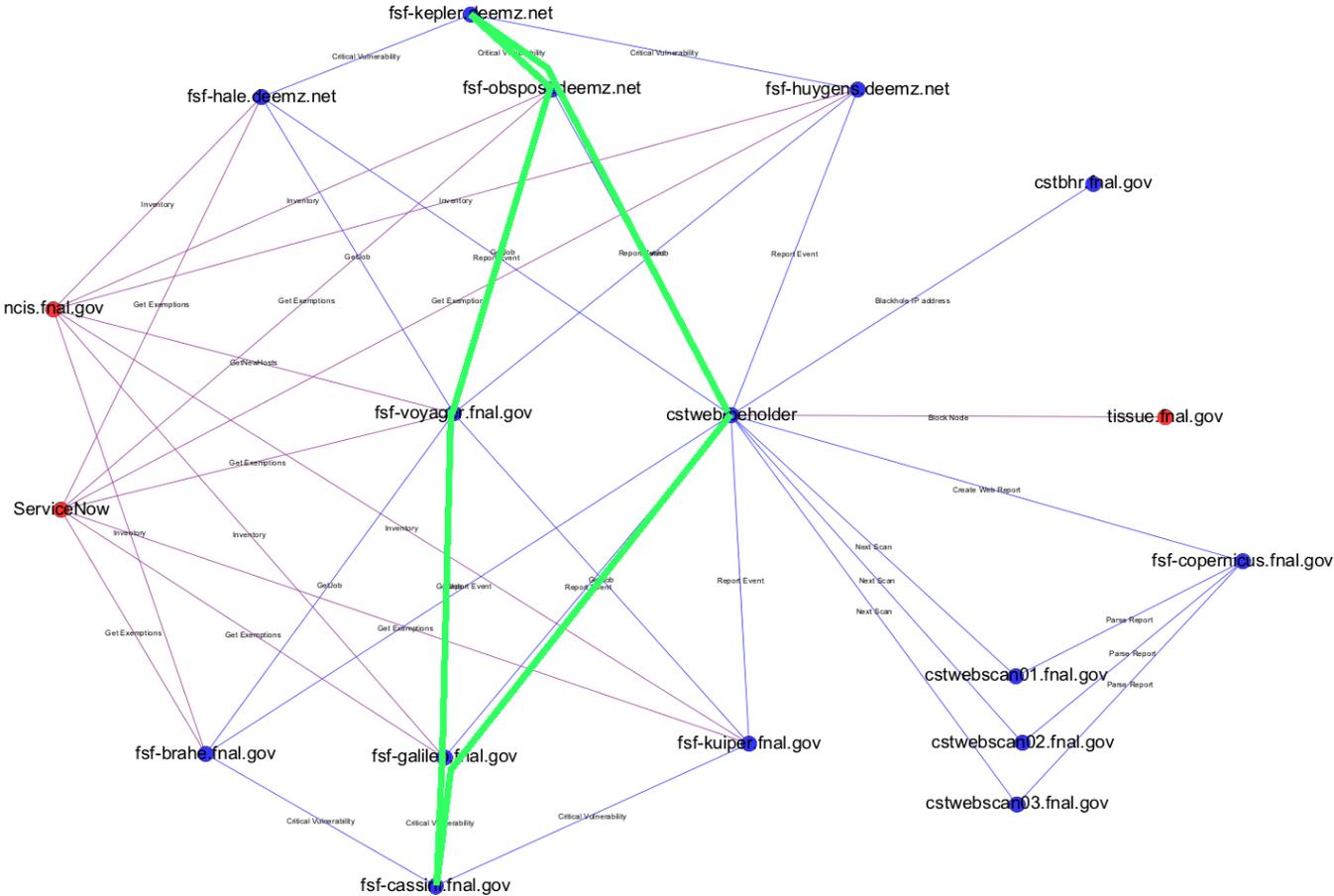
New Hosts Arrive on the Network



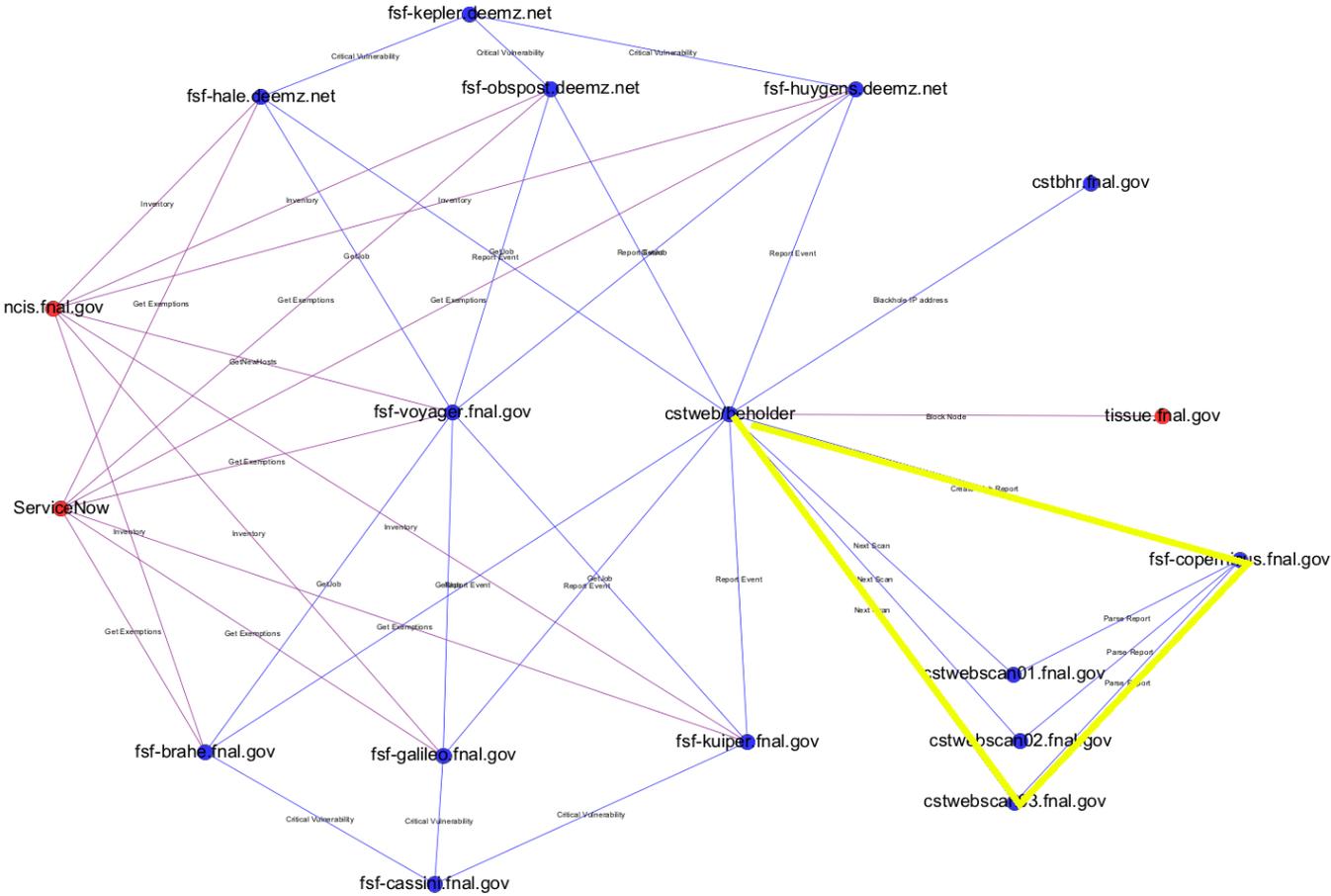
Inventory Scans



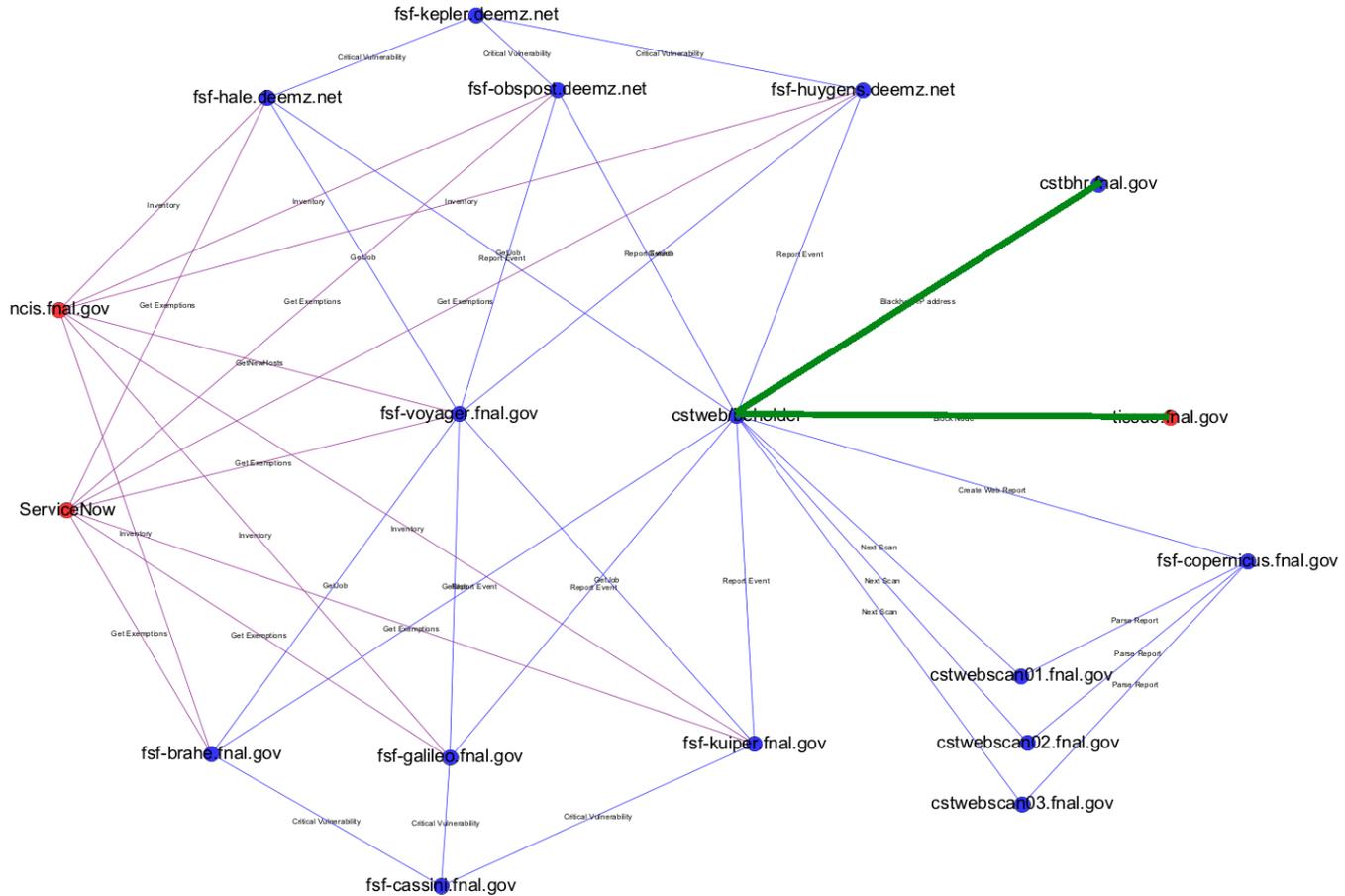
Critical Vulnerability Scans



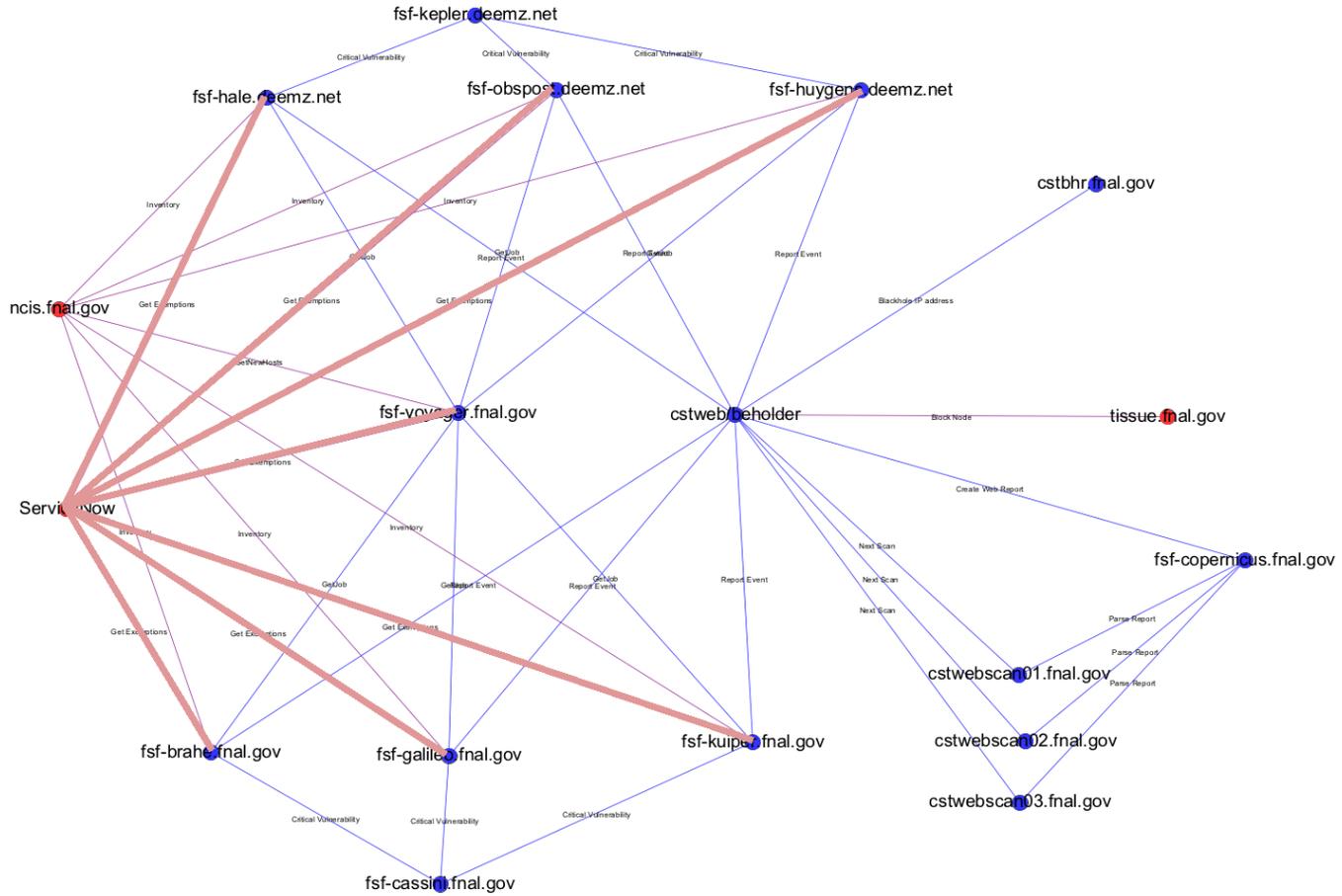
Web Service Vulnerability Detector



Reporting And Blocking



Exemptions



Beholder Dashboard Live Demonstration

- [Beholder](#)

Acknowledgements

- **The Computer Security Team:**
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- **Steve White**

