MICHIGAN STATE UNIVERSITY

Alpha Presentation
Intelligent Network Security for High-Risk
Traffic

The Capstone Experience

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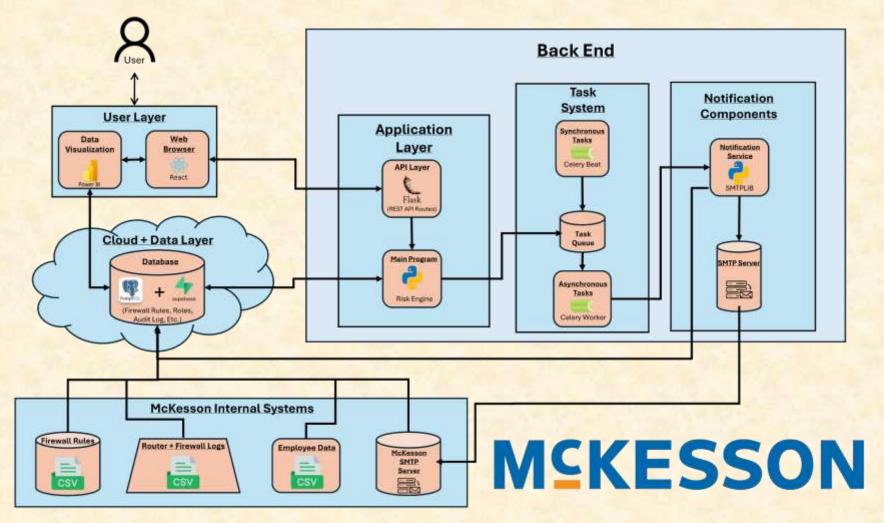
Fall 2025



Project Overview

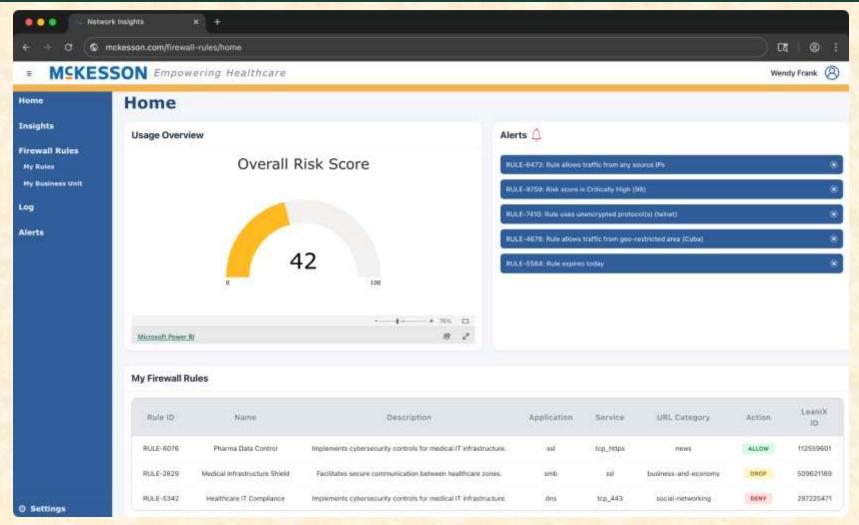
- Firewall rules help the firewall decide how to control access to networks
- Difficult for a cybersecurity unit to analyze thousands of rules
- The Intelligent Network Security system automates risk analysis process to evaluate risk of firewall rules
- Web application designed to manage firewall rules and visualize insights, alerts, and attestations

System Architecture

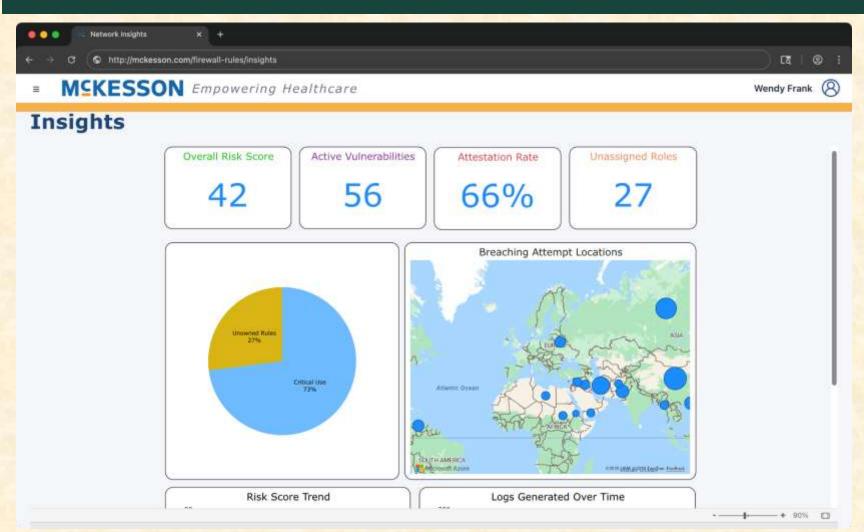




Home

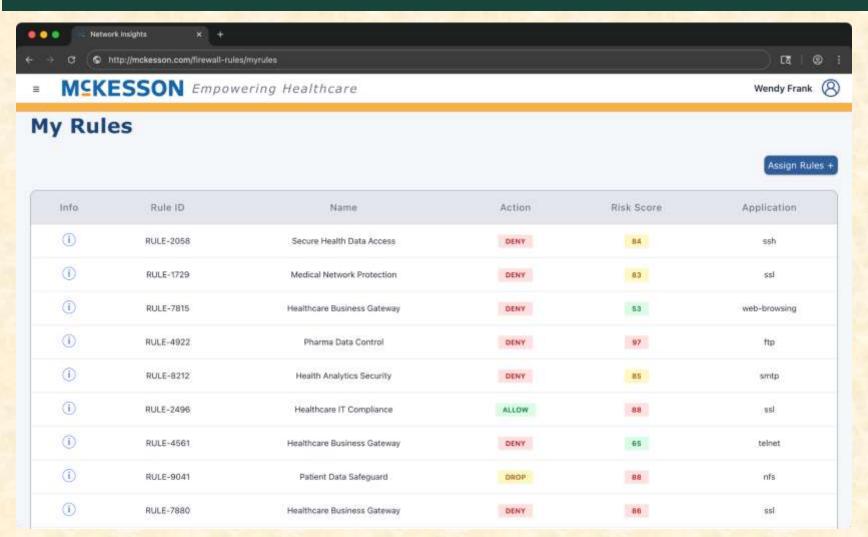


Insights



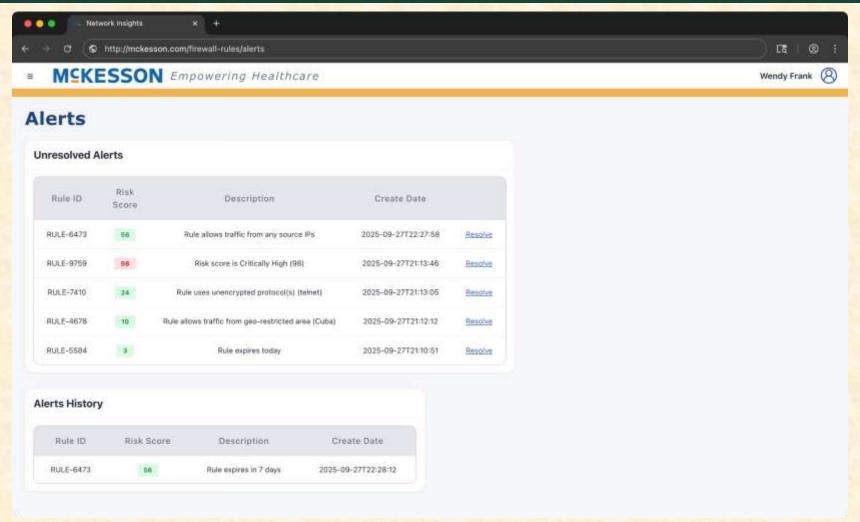


My Rules





Alerts





What's left to do?

- Assign Rules functionality
- Data integration with Power BI
- Comparison among business units
- Add more criteria to risk engine
- Analysis of logs
- Notification system

Questions?

