



# Florida International University

## Fall Semester - 2024 - Senior Design Project

# Nuclei – Vulnerability Scanner

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Instructor/Faculty: *Masoud Sadjadi*, Florida International University

## INDIVIDUAL POSTER – Xavier A. Rodriguez

- Delegated tasks within the team to ensure timely completion of all project deliverables.
- Provided strategic guidance to the team for effectively executing the final project on Nuclei.
- Implemented a vulnerable testing environment using Metasploitable 2 to facilitate testing of custom YAML templates in Nuclei.
- Developed a custom YAML template to analyze SSH Authentication Methods, enabling users to identify whether authentication relies on public keys or passwords.
- Assisted team members in debugging their code by leveraging Nuclei terminal commands, including `–debug` and `–validate`, for enhanced troubleshooting.
- Configured and optimized settings for custom YAML SQL templates to ensure compatibility and functionality within the Nuclei/Metasploitable environment.
- Conducted testing to validate the accuracy reliability of custom YAML templates, ensuring alignment with project objectives.
- Researched and identified best practices for YAML template creation and debugging to streamline team workflows.
- Facilitated knowledge sharing by demonstrating effective techniques for testing and troubleshooting within the team.
- Documented the development process and provided step-by-step instruction for replicating project workflows to ensure future usability.
- Monitored team progress and provided timely feedback to maintain alignment with project deadlines and quality standards.

*ATTENTION: Subheadings shown above is a recommended structure for a research/scientific poster. Main elements of a poster are Introduction, Research and Conclusion. Researchers can customize the section headers based on their projects' needs. REMOVE THIS TEXT ONCE YOU START WORKING ON YOUR POSTER*