

R3CONX Suite: An Automated Web Reconnaissance Platform

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Abstract: Reconnaissance is the first and crucial stage of offensive security and vulnerability assessment. In the past ten years, automation and the merging of various reconnaissance tools into unified platforms have sped up how security professionals find external attack surfaces, list assets, and prioritize targets. This survey looks at modern automated reconnaissance methods, focusing on a hypothetical ReconX Suite, a Django-based web platform that combines tools such as Nmap, OWASP Amass, WHOIS, and DNS collection, along with cloud-based orchestration. We discuss key reconnaissance techniques, common tools, integration patterns, privacy and ethical issues, and we suggest a reference architecture, evaluation metrics, and possible future research and development directions.

Keywords: reconnaissance, automation, Nmap, Amass, OSINT, attack surface mapping, cloud integration

