NETWORK SECURITY + ARCHITECTURE REVIEW

GRA Quantum's Network Security and Architecture Review (NSAR) provides clients the first step in their journey toward building a comprehensive cybersecurity strategy. We utilize an exhaustive network topology and security policy assessment to provide clients a complete picture of the strengths and weaknesses of their networks. This assessment is then followed up with recommendations for how to improve the client's network security architecture to better conform with their business goals and objectives. NSAR is not an audit, but rather is carried out in collaboration with the client's IT team.

The NSAR helps identify weaknesses in network security policy, procedure, design, device configurations/rules, in order to help strengthen the company's network footprint. During the assessment, GRA Quantum will:

Identify company's network security policies/procedures/SOP's

Assess whether network security assets are aligned with business requirements and objectives

Identify all technology assets in regards to network security

Assess the network's design and architecture, including a review of redundancy, segmentation, and access/management tools

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THE EVOLUTION OF CYBERSECURITY

Assessment Methodology

The NSAR begins with base level security scans to identify services and issues within these services. It then proceeds to use of manual techniques to identify risks that automated tools cannot identify. Our assessment techniques include, but are not limited to:

DNS QUERIES: Query name databases such as ARIN to obtain domain names, IP address block assignments, and registrar information.

HOST IDENTIFICATION: Identify live hosts through ICMP, Reverse DNS, and port scans for common services.

NETWORK ROUTE MAPPING: Map the network route to each system using trace route and Visual Route.

NETWORK SERVICES ENUMERATION: Enumerate the services available on each system through TCP and UDP port scanning by using tools such as NMAP.

VULNERABILITY EXPLOITATION: Use commercial, open source, and private exploitation tools and methods to gain access to the system or sensitive data.

The NSAR is part of the Network Vulnerability Assessment component of GRA Quantum's more comprehensive Enterprise Cybersecurity Strategy

NETWORK VULNERABILITY ASSESSMENT | PREVENTION | DETECTION | RESPONSE | TRAINING

Deliverable

Every assessment concludes with a detailed report identifying every vulnerability discovered during our examination. All findings are assigned a risk level determined by its ease of exploitation, business impact, and probability of exploitation.

Attention   Low   Medium   High   Critical

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