Network Fort

LogicFinder
Consulting, Development and Training

Strengthening Smart City Security with NetworkFort

Smart City Infrastructure:

The implementation of emerging technologies in the construction of the smart city requires fully integrated data resources and patterns of cities. Our customer city was a new urban development and has been developed with strong sustainability criteria. Initially, it was projected to accommodate 50,000 inhabitants with 25,000 job opportunities. The development includes primary healthcare and education services, a commercial district, and a logistics center.

Information security is the foundation of smart city construction and guarantees robust development. Hence, a significant information security risk evaluation was needed to ensure sustainability and development. With the gradual deepening of smart city construction, strengthening information security has become an increasingly prominent focus.

Customer Challenges:

- Fewer urban institutional capacities
- Massive data for knowledge processing
- The inability of detailed risk analysis
- To build strategic partnerships to grow cyber-security capabilities
- Syncing smart city and cyber strategies
- Formalizing cyber and data governance
- To implement the concept of 5G, IoT, and cloud computing
- Enhancing the existing building automation system

LogicFinder Solutions and Services

A joint solution was presented to the customer by LogicFinder with NetworkFort for enhanced security and protection. With over 10 years of development excellence in the field of Networking, Data centers, and Cyber Security, Logic Finder is delivering a new class of real-time threat detection and advanced analysis of active network intrusions.

Logic Finder is focused on providing telecommunication and networking Consultation, Development, and Training solutions worldwide. We believe in creating value for the networking and telecommunication industry through our quality Consultation, Development, and Training services in wireless technologies and next-generation communication networks.

NetworkFort as a Threat Intelligence Identification Solution:

Detecting and preventing cyber attacks using an intrusion prevention system is the foundation of NetworkFort's multi-layer protection strategy. This AI-based security solution prevents abuse and attacks by providing excellent control over the access points on IT networks. NetworkFort prevents ransomware by integrating Artificial intelligence in IDS technology. As an ideal security solution, it delivers the best detection technology that rules out traditional signature-based IDS.

Solutions provided to the customer:

- ### Digital Trust Platform

  NetworkFort threat intelligence identification solution has enabled seamless trusted connections throughout the smart city and manages the identities within a connected ecosystem. Through this approach, the city was able to identify, authenticate, and authorize people and devices through adaptive behavior.

- ### Privacy by Design

  NetworkFort introduces a concept of privacy by design that specifically was aimed to protect the citizen's privacy. This concept incorporates the design technologies, processes, and infrastructure.

- ### Risk Assessment Modules

  In a smart city, with more devices used to connect to a shared network, it was harder to identify risks. To ensure security, LogicFinder initially conducted and continued to scan the network for security risks to tackle the risks, gaps, and vulnerabilities to be fully understood and proactively overseen.

- ### Cyber Threat Intelligence Analysis

  NetworkFort performed a threat intelligence analysis to collect and analyze information about potential attacks threatening the organization and its assets. After understanding the entire ecosystem, NetworkFort was able to provide an optimized security mechanism. By implementing behavioral analytics, machine learning, and artificial intelligence, NetworkFort showed the complete picture of the threat landscape.

- ### Cyber Response and Resilience

  To help stay prepared for further resilience, the NetworkFort team provided a stronger resilience plan to manage further potential risks. This also includes the development of advanced cyber forensic capabilities to trace and prevent spreading to other systems.

Deployment of Network Fort:

NetwokFort has helped state and local governments and related public sector and private organizations address cyber risk in their smart city ecosystem. As a provider of risk intelligence, NetworkFort assists in developing a consistent, integrated approach to managing cyber risk through the introduction of smart city cybersecurity principles at every stage of the development cycle, from design and strategy to implementation and operations.

The smart city concept with NetworkFort implies the interaction of information and communication technologies for the management of modern urban services: transportation, medical care, power planting and supplying, etc. Data processing and analysis of dataflow received from a variety of smart sensors allow it to monitor and predict the occurrence of cyber threats of different type

Security Flaws Detected:

- The absence of fixed network topology and central nodes makes it impossible to organize a centralized security policy
- There were no protective tools on each network node
- This type of smart network is public, which makes it possible to spoof a message, signal, or even a network node
- There was a wide range of possibilities to compromise the poorly protected nodes
- There was a huge number of connected nodes, and, correspondingly
- There was a requirement to process large data of cybersecurity
- There was a set of channel vulnerabilities
- The network had limited computing power for the connected devices.

Company Info

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