ICTERRA

Excellence in Software Engineering

25+
years

International | Multi-cultural
Multi-disciplinary
Project Experience

ABOUT ICTERRA

ICterra is a Software Engineering Company with 200+ software professionals and offices in Ankara, İstanbul, London, Munich.

We combine more than 25 years of software development experience with technology expertise and proven methodologies to provide Software Solutions to our customers. We have been building long lasting strategic partnerships with our customers across multiple industries such as Aviation, Defense, Energy, Medical, and Telecommunications.

CYBER SECURITY

SMART INTRUSION DETECTION SYSTEM (ATES)

Intrusion Detection System (IDS) is a software that is monitoring the events occurring in a computer system or network and analyzing them for signs of possible incidents.

ICterra has developed a state-of-the-art Intrusion Detection System, featuring the following capabilities:

- Cyber intelligence gathering
- Modern architecture consistent with Security as a Service approach
- System consisting of sensors and Command & Control Center
- Management of sensors from Command & Control Center
- Sensors to be deployed in service acquiring institutions
- Command & Control Center to be deployed in the institution offering security service
- IP Blacklist prediction
- Firewall efficiency monitoring
- Signature based detection
- Common Criteria EAL4+ (ALC_FLR.1) Certified System

ICTERRA HONEYPOT SYSTEM (BAKS)

Honeypot Systems are decoy servers or systems used to gather information regarding the attackers or intruders accessing your systems.

ICterra has developed a Server Honeypot System for the leading defense electronics company of Turkey, featuring the following capabilities:

- Realistic simulation of common applications and protocols
- Host-based operation above TLS encryption
- Application layer investigation of attack patterns
- Signature based and behaviour based malware analysis
- Remote monitoring and management capability
- Deployable with ICterra Smart Intrusion Detection System and Command & Control Center

FLEXIBLE INTRUSION PREVENTION SYSTEM (FIPS)

Intrusion Prevention Systems (IPS) are extensions of Intrusion Detection Systems. An Intrusion Prevention System monitors a network and then detects and prevents malicious activities such as security threats and exploits.

ICterra is developing a state of the art Intrusion Prevention System, featuring the following capabilities:

- ETSI compatible, cost effective and flexible deployment of VNF packages over network infrastructures such as 5G
- Machine learning based approach to enhance network attack detection and classification
- State-of-art IP blacklist prediction and warning against sophisticated network attacks
- Patent-pending firewall efficiency measurement method employing global blacklists and multiple sensors around firewall
- IPv6 network protocol compatibility and attack detection support
- Management of sensors from Command & Control Center

REFERENCES

TÜBİTAK
Industrial R&D Projects
Grant Programme
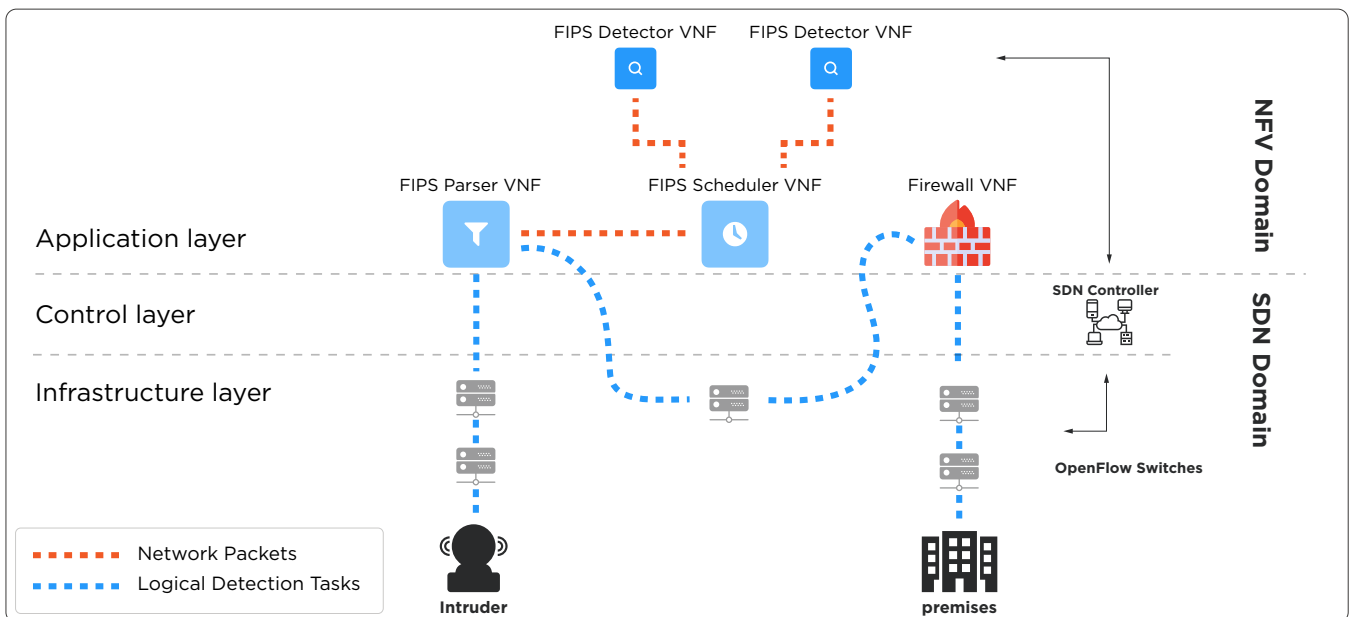
Smart Intrusion Detection System

Flexible Intrusion Prevention System

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