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The Power of DNS in Security

DNS Detection & Response
IT/OT Convergence

“

With DNS-based Threat Intelligence and IPAM we can map a threat to any device and user activity in **real time**.

EMEA-based tech services company

”

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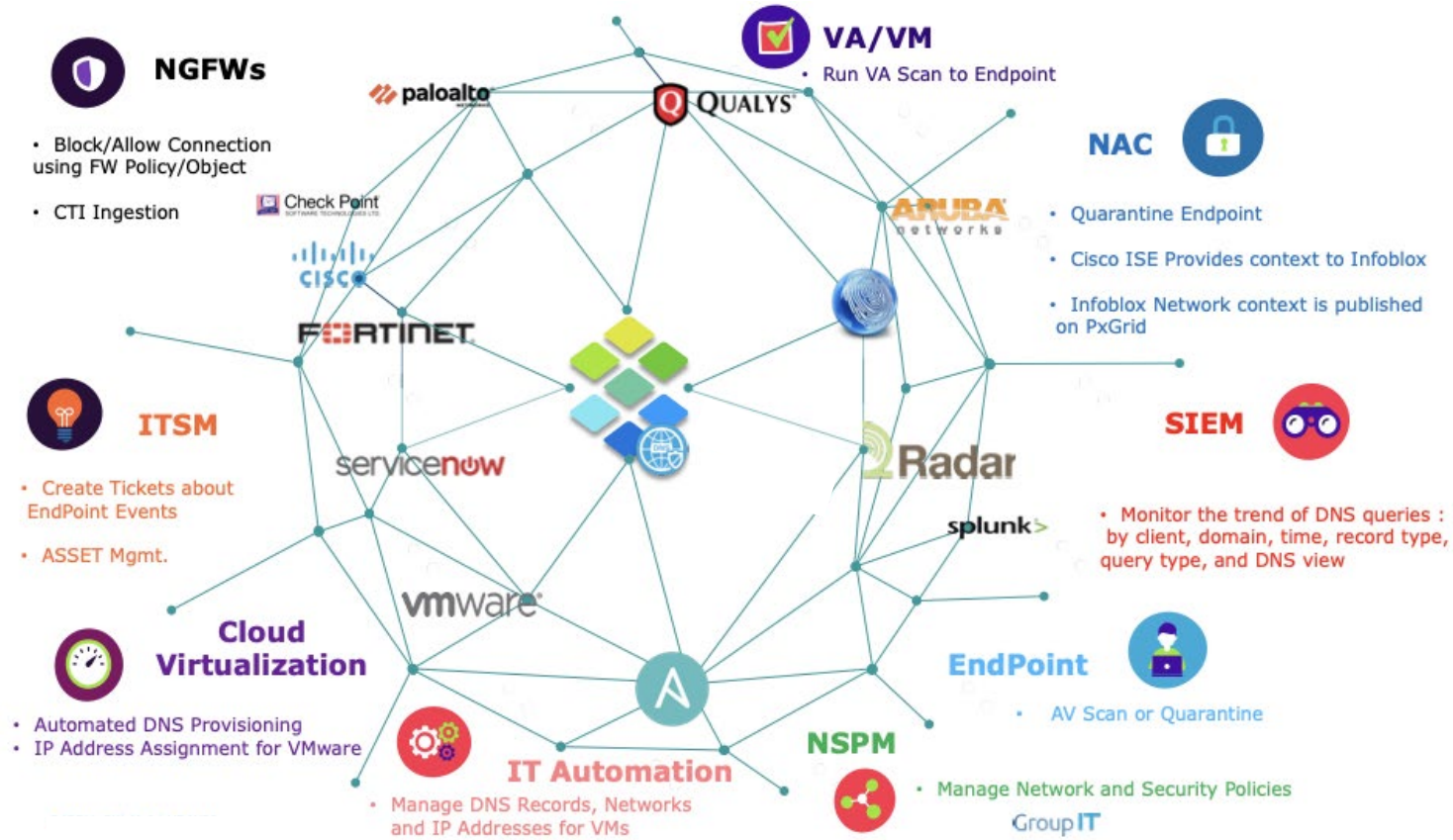
Infoblox at the heart of a SecOps Framework

- EMEA tech services company.
- **50,000** (roaming) endpoints.
- **500000** security events per day.
- Changed DNS to the 1st line of defense - on the **DNS server**!
- Correlate Threat, Device, OS, User and Location in **real time**.

API integration into Threat Intelligence, SIEM and SOAR to **Automate Response**.



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Who is Infoblox? - Products

BloxOne - Threat Defense

NIOS DDI
BloxOne DDI

The foundation of **Core Network Services** that enables and protects all communications over an IP-based network

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Relevance of DNS within Security


.tk second largest country domain behind China

Humans cannot keep up with the load

Infoblox Customer TRAFFIC example

- 78% of DNS traffic came from **20** domains (0,026%)
- Remaining 22% of DNS traffic from **76,000** domains (99,97%)

TIME to investigate

- At 1 domain per minute, it would take a person 52 days to research these domains
- Today, ~100,000 new domains have already been created so far, which adds another 10 weeks.

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Attackers know DNS is unmonitored

Firewall
Web Security
Email Security
Endpoint Security
Network Security
SSE/CASB/SWG/SASE
DLP

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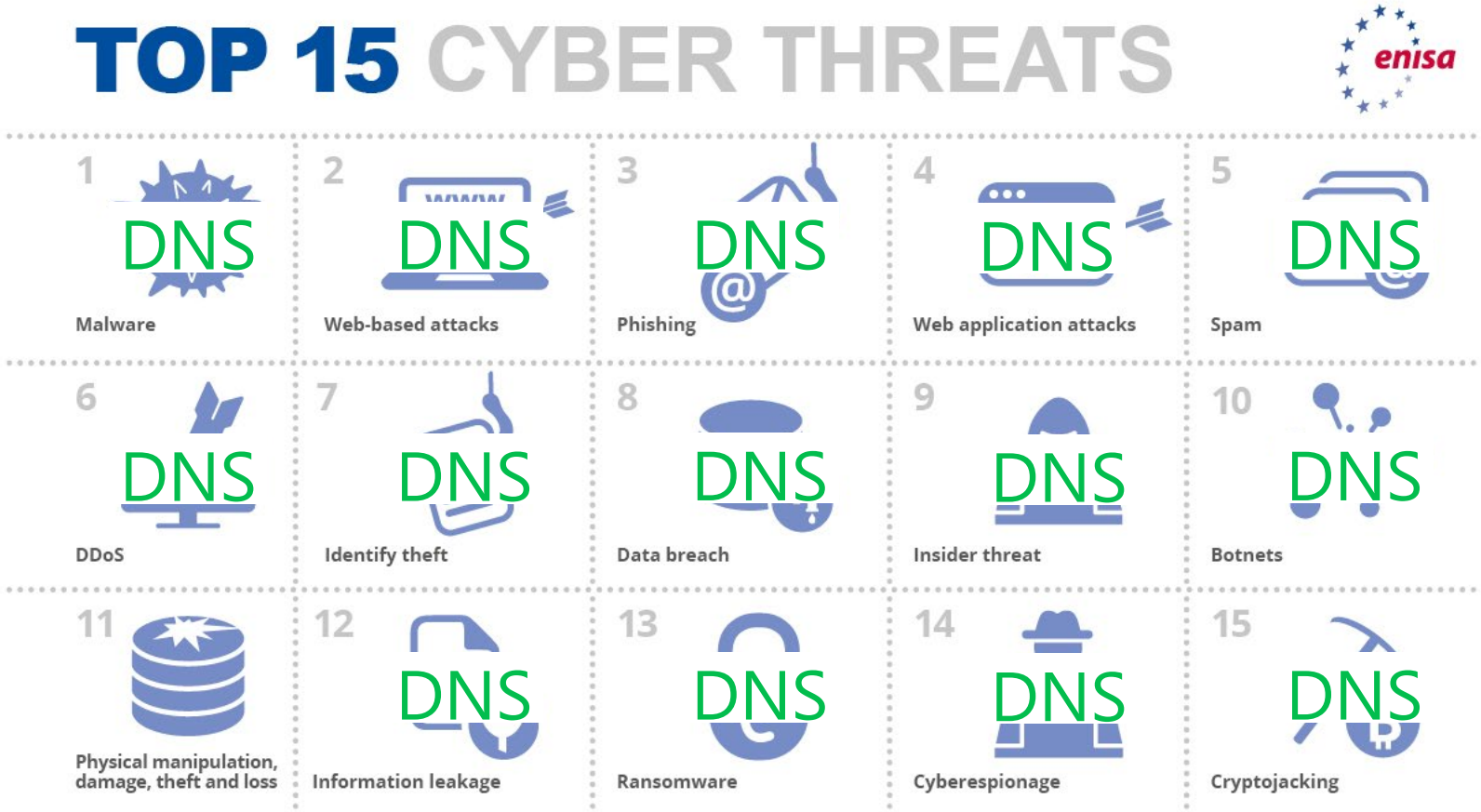
Gartner, CISA, ENISA (EU Agency for Cybersecurity)

Exponential Increase in the use of DNS in all Type of Attacks

DNS is seen as the most scalable approach to malware mitigation in a deperimeterized security world[2/3].

Gartner

How can Organizations use DNS to improve their security posture?[1]



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Infoblox – NIST Framework Core

DNS Detection & Response (DNSDR)

Map threats to any device and user activity in near real time

BloxOne - Threat Defense

NIOS DDI BloxOne DDI

Exfiltration, etc.

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THANK YOU!

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