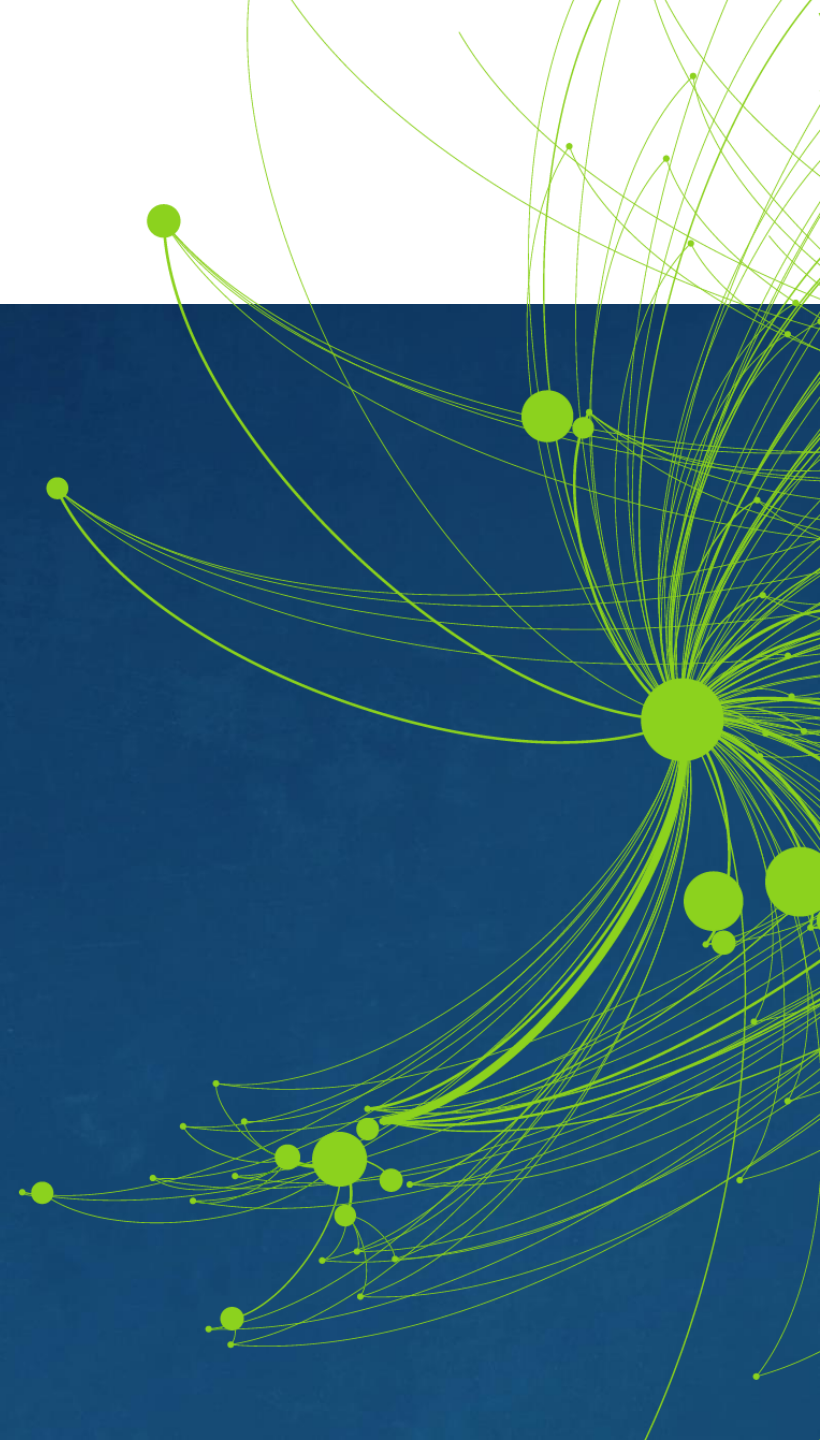




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# Security Done Right, Shift Left

Prepared by: Anthony James  
Vice President  
Product Marketing



# TODAY'S SECURITY CHALLENGES

**>500**

Alerts  
per day

**4%**

Of alerts,  
only, are  
investigated

**30**

Security tools  
used; staff and  
expertise to  
manage 12

**\$4M**

Average cost of  
a data breach

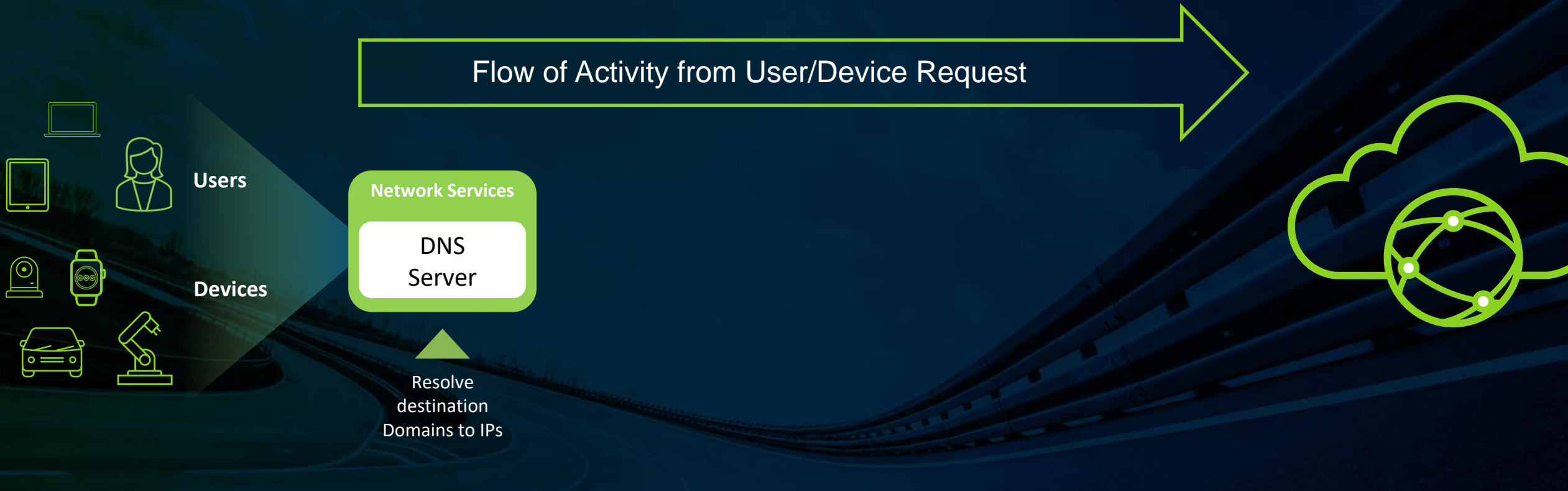
**270**

Average time  
to identify and  
contain



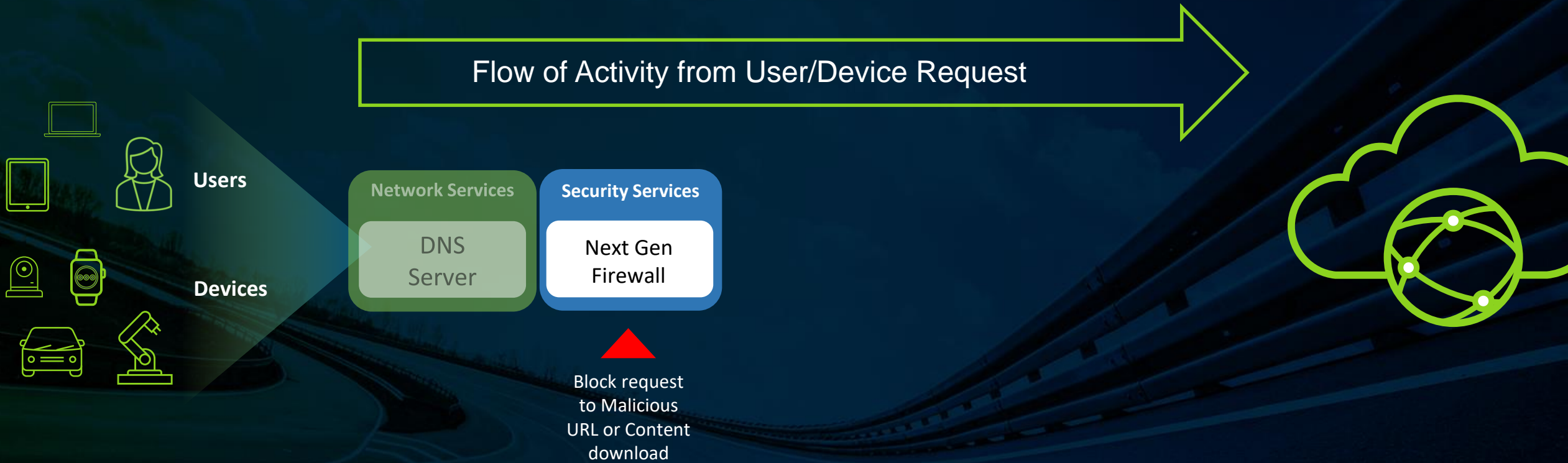
# Activity Flow from User/Device to Web

# TYPICAL ACTIVITY WITH SECURITY SERVICES





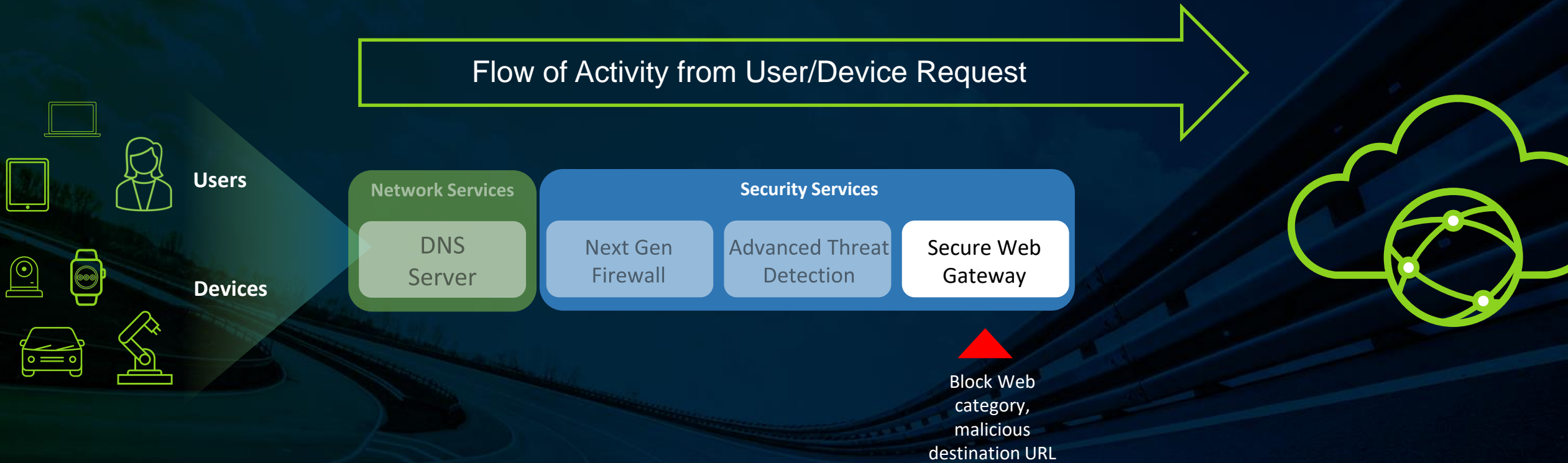
# TYPICAL ACTIVITY WITH SECURITY SERVICES



# TYPICAL ACTIVITY WITH SECURITY SERVICES



# TYPICAL ACTIVITY WITH SECURITY SERVICES





# TYPICAL ACTIVITY WITH SECURITY SERVICES







# — “Shifting Left” in the Attack Cycle

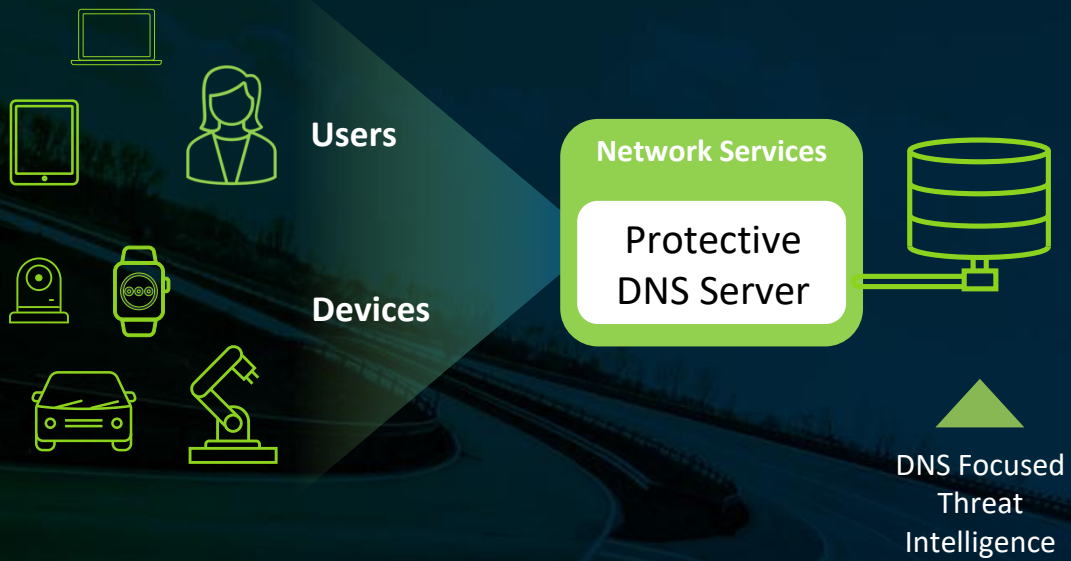
## ***DNS CAN BE A SECURITY TOOL***

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***“Secure DNS would reduce the ability for 92% of malware attacks both from command and control perspective, deploying malware on a given network.”***

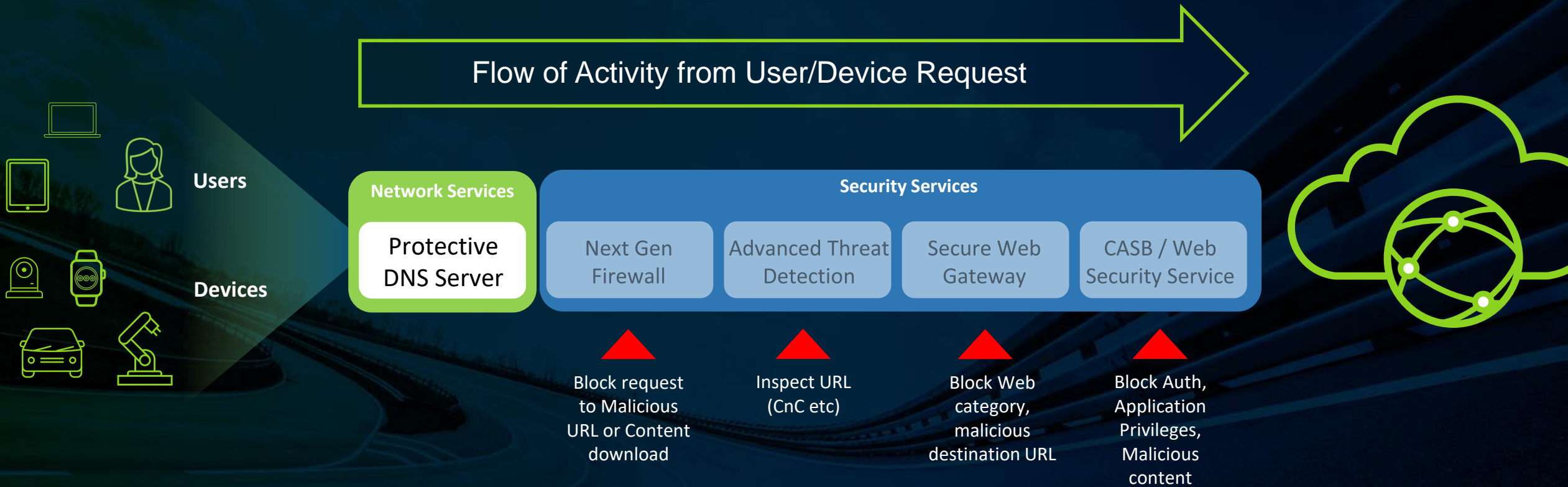
- Head of the Cybersecurity Directorate, NSA (2020)

# LEVERAGING THREAT INTEL WITH DNS

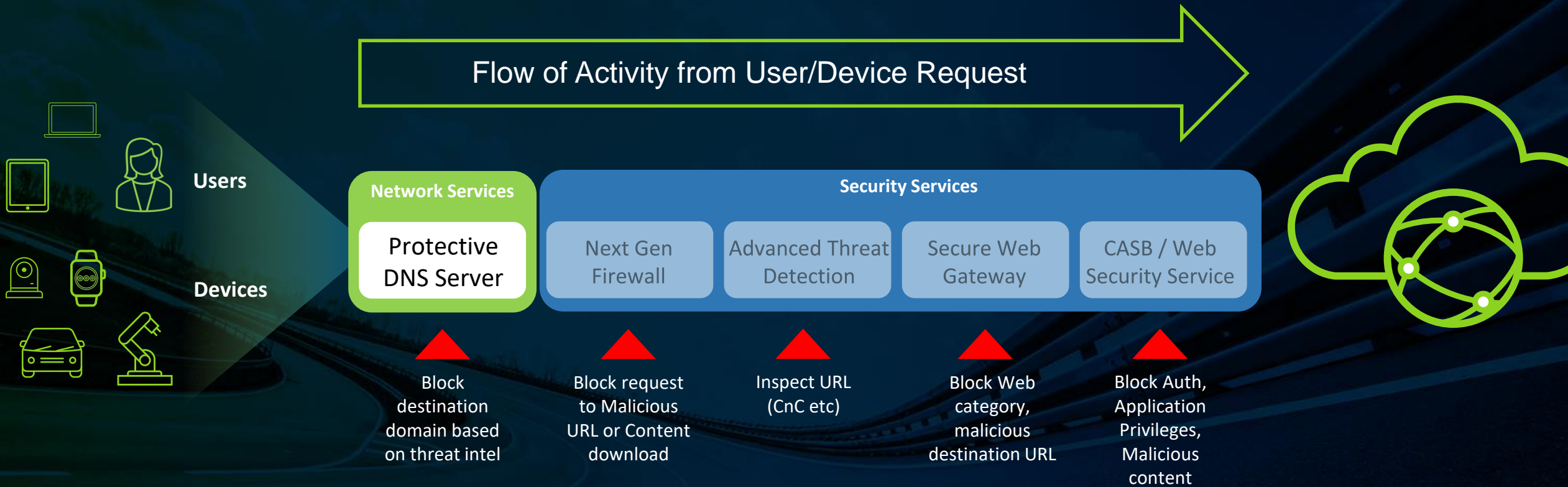




# ACTIVITY WITH DNS-BASED SECURITY



# ACTIVITY WITH DNS-BASED SECURITY



# "SHIFTING LEFT" IN THE SECURITY STACK

92%

Reduce malicious requests at the DNS Query

Users

Devices

Network Services

DNS  
Query

Security Services

Next Gen  
Firewall

Advanced Threat  
Detection

Secure Web  
Gateway

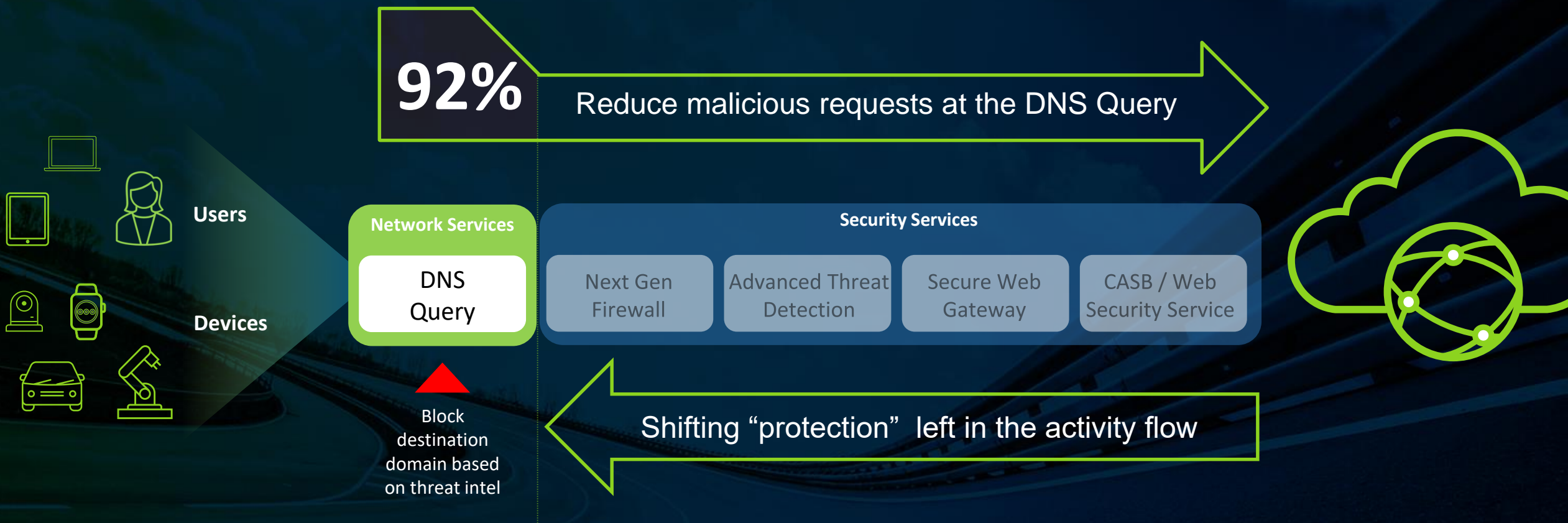
CASB / Web  
Security Service

Block  
destination  
domain based  
on threat intel





# "SHIFTING LEFT" IN THE SECURITY STACK



# *Benefits “Shifting Left” with DNS Security*



Reduced load on downstream security devices

- Increase their capacity, extend their life and improve ROI

Reduce security alerts to SecOps and SIEMs

- Lower SIEM costs while increasing SecOps efficiency

Protect ALL devices

- Every device uses DNS to resolve destinations before communicating

A word cloud featuring the phrase "Thank You" in numerous languages and scripts. The words are arranged in a circular pattern, with "Thank You" being the largest and most central text. Other visible words include: "Maake", "Asante", "Shukria", "Dhanyavadagalu", "Manana", "Dankon", "Matondo", "Terima Kasih", "Tack", "Grazie", "Mochchakkeram", "Tingki", "Gratias Tibi", "Obrigado", "Djijere Dieuf", "Eskerrik Asko", "Najis Tuke", "Agat", "Raibh Maith", "Go", "Salamat", "Merci", "Danke", "Welalin", "Hvala", "Nirringrazzjak", "Dakujem", "Bedankt", "Ua Tsaug Rau Koj", "Suksama", "Dëkuji", "Rahmat", "Matur Nuwun", "Misaotra", "Ua Tsaug Rau Koj", "Suksama", "Dëkuji", "Rahmat", "Matur Nuwun", "Misaotra", "Ua Tsaug Rau Koj", "Suksama", "Dëkuji", "Rahmat", "Matur Nuwun", "Misaotra".