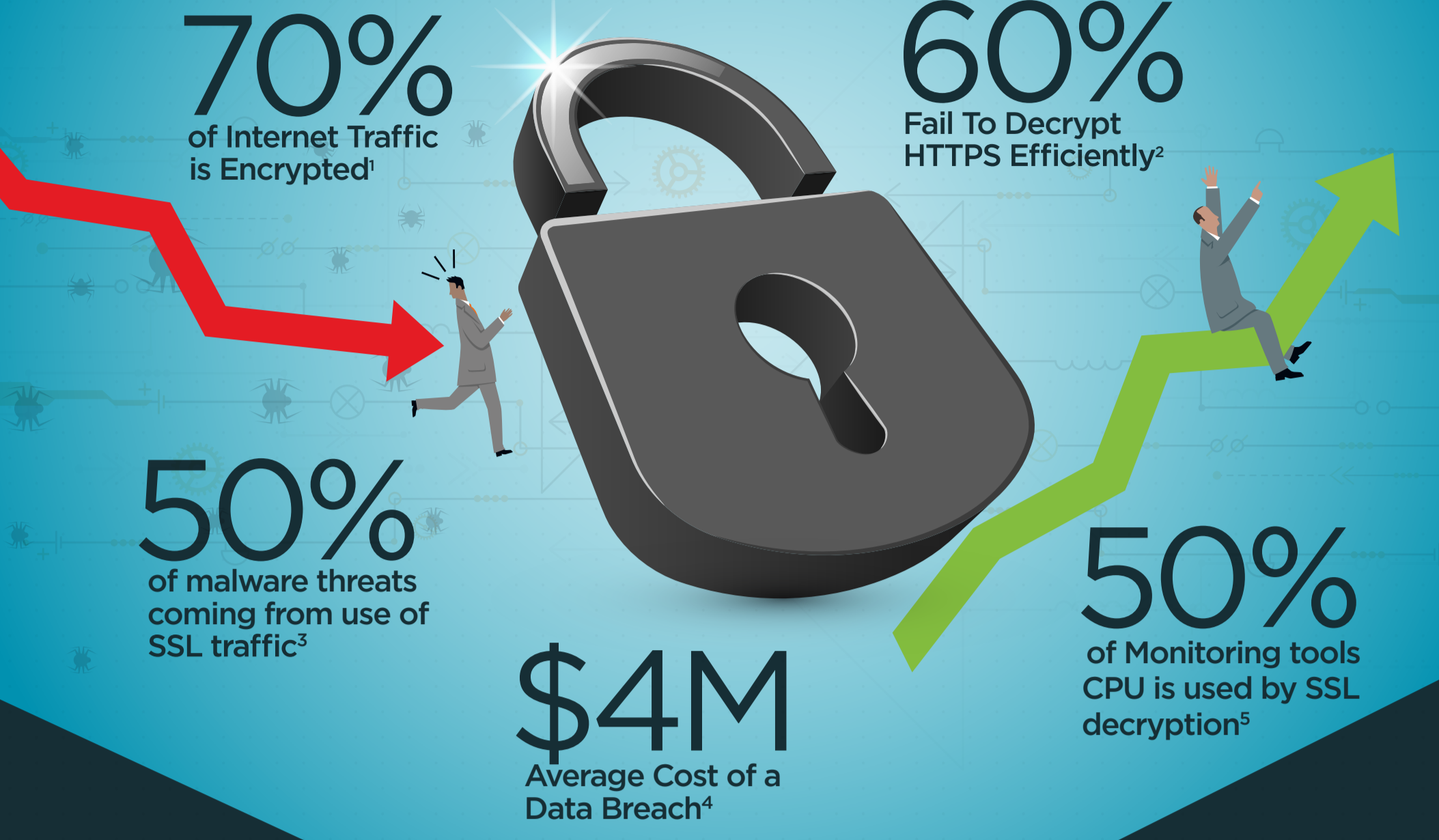


Secrets of Your Internet Encryption

SSL Encryption Will Break or Make Your Business



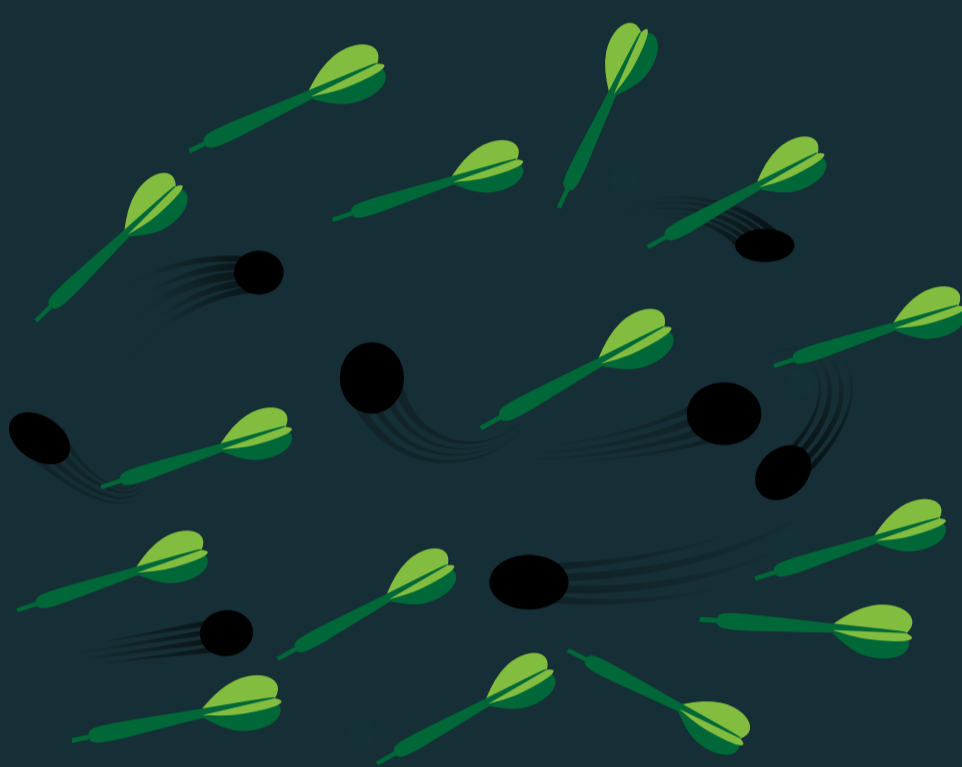
Static Encryption Keys are Easier Targets

STATIC KEYS
are like shooting at a fixed target



Aim is easier over time
Always there
Always the same

EPHEMERAL KEYS
are like shooting at a moving target



Difficult to hit every time
Disappears fast
Different each time

Ephemeral Encryption Keys Preferred by

SERVERS

97% of Top 100 websites prefer ephemeral keys⁶

87% of Top 10,000 websites prefer ephemeral keys⁶



BROWSERS

1st to 19th encryption keys most preferred by browsers are ephemeral⁶

20th is the [not so] best place of preference by browsers for a static key⁶

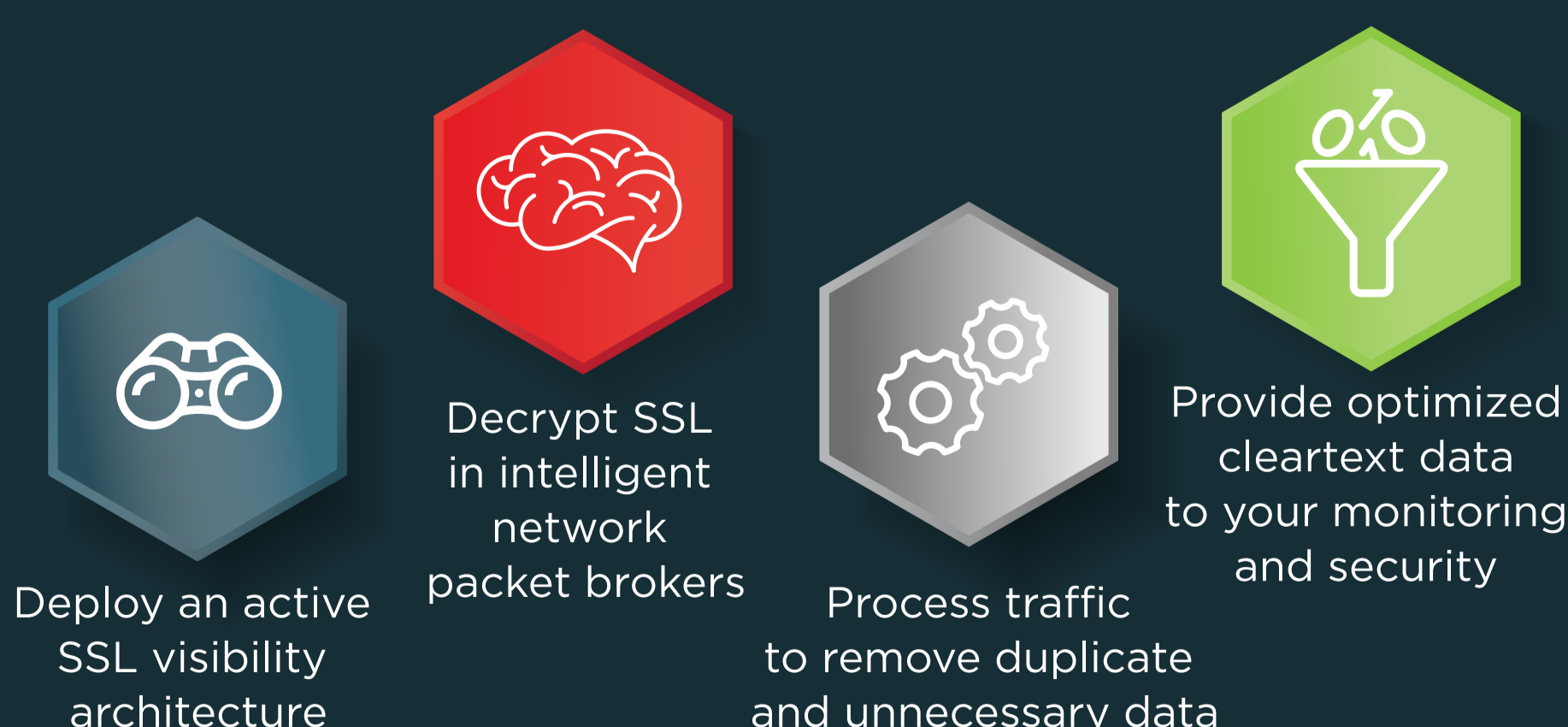
130 browser variants studied⁶

Chrome Browsers are the bellwether of encryption preference⁶

Use Ephemeral Encryption Keys

Design your infrastructure to support ephemeral keys
Chose vendors who optimize hardware and software for ephemeral keys

Decrypt Traffic Once, Use It Many Times



Ixia active SLL visibility solutions offer all this and more. Learn more at <https://www.ixia.com.com/tls-and-ssl-decryption-and-encryption>

1 (Sandvine Research) <https://www.sandvine.com/pr/2016/2/11/sandvine-70-of-global-internet-traffic-will-be-encrypted-in-2016.html>

2 (Gartner) <https://www.gartner.com/doc/3542117/predicts-network-gateway-security>

3 (Gartner) <https://www.gartner.com/doc/2635018/security-leaders-address-threats-rising>

4 (Ponemon Institute) <https://securityintelligence.com/media/2016-cost-data-breach-study/>

5 (NSS Labs) <https://www.nsslabs.com/linkser-vid/13C7BD87-5056-9046-93FB736663C0B07A/>

6 <https://www.ixiacom.com/sites/default/files/2017-10/ixia-T-WP-State-of-Encryption.pdf>