

The CIO's Cookbook Cybersecurity

Leading Thoughts

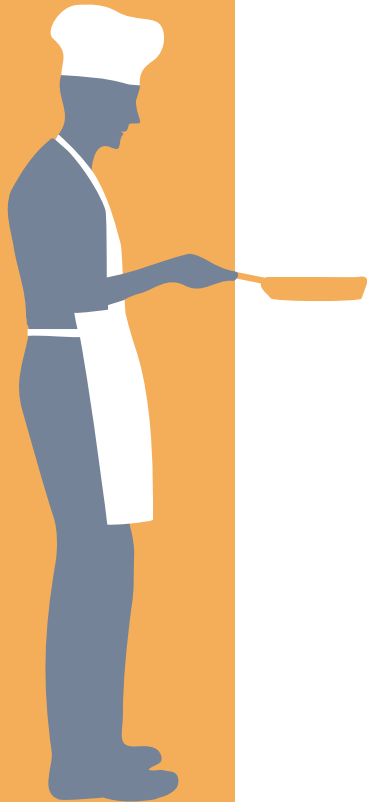
1 | Expanding technology landscape from Digital Transformation has created more avenues for Threat Actors

2 | Cybersecurity posture needs periodic assessment at the board level. Associated budgets cannot be an afterthought

3 | Information Security is everyone's business and not limited to just the CISO organization. Internal threats far exceed external threat vectors

4 | Security Solutions and Suppliers are far too many. Does your organization have a "Cybersecurity" Architecture blueprint?

Considerations



1

CISO and CDO/CIO (Digital/Information) must perform complementarily

2

Build a Culture to educate the workforce for securing the cyber and manage internal threats

3

Conform your technology practice with ISO Security standard

4

Assess security posture of your incumbent to be introduced public cloud providers

5

On-premise infrastructure & data can often get neglected. Build a predictable patching process

6

Build security for everything: EPM, Data, Identities & Access, Code, Infrastructure, Mail, & Network

7

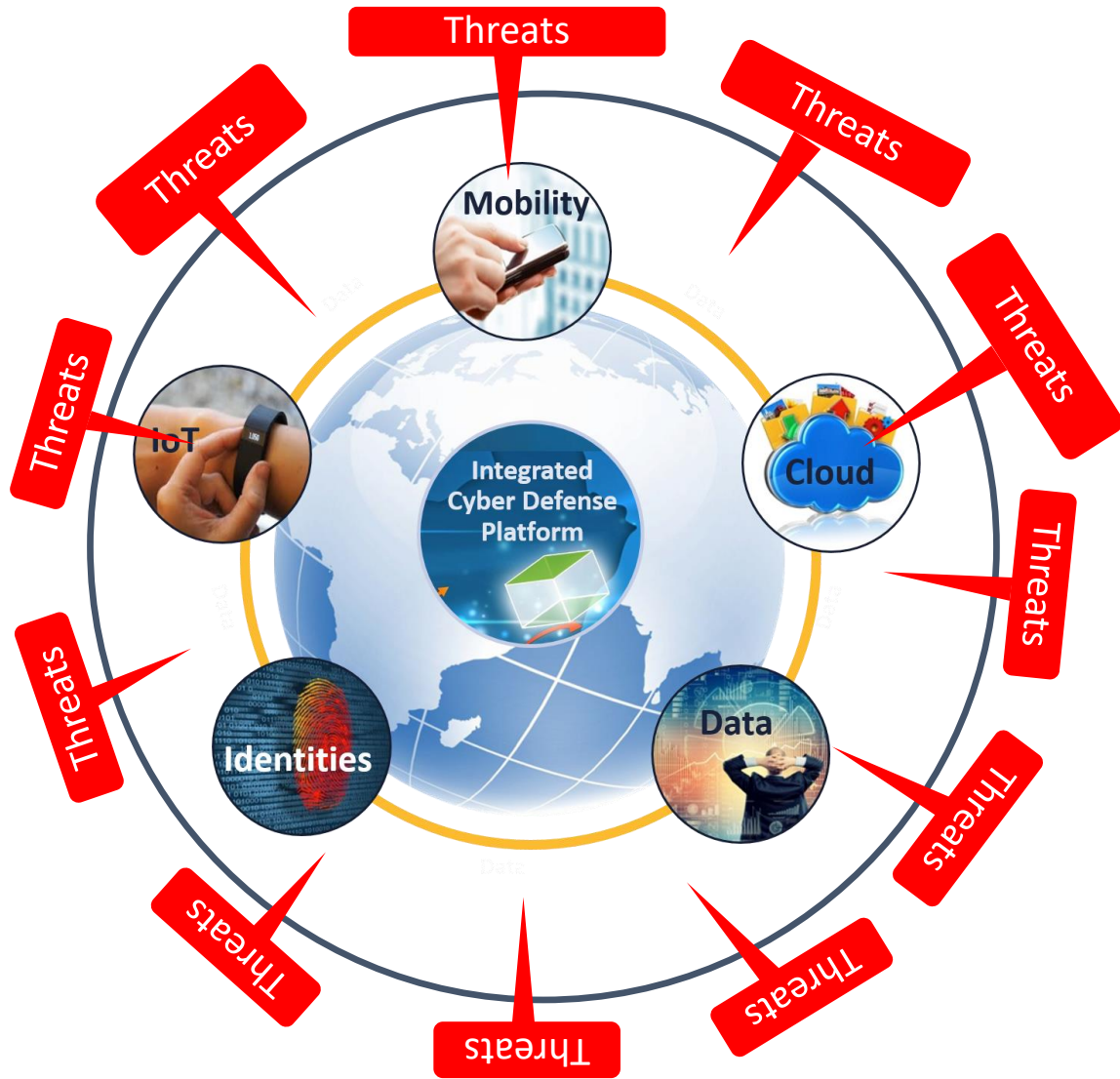
Act not just to Identify & Protect. Build abilities to Detect, Respond & Recover from attacks

8

Implementing redundant solutions does not necessarily offer double protection.

Build a Security Operations Centre just like your NOC

Threats are Increasing!



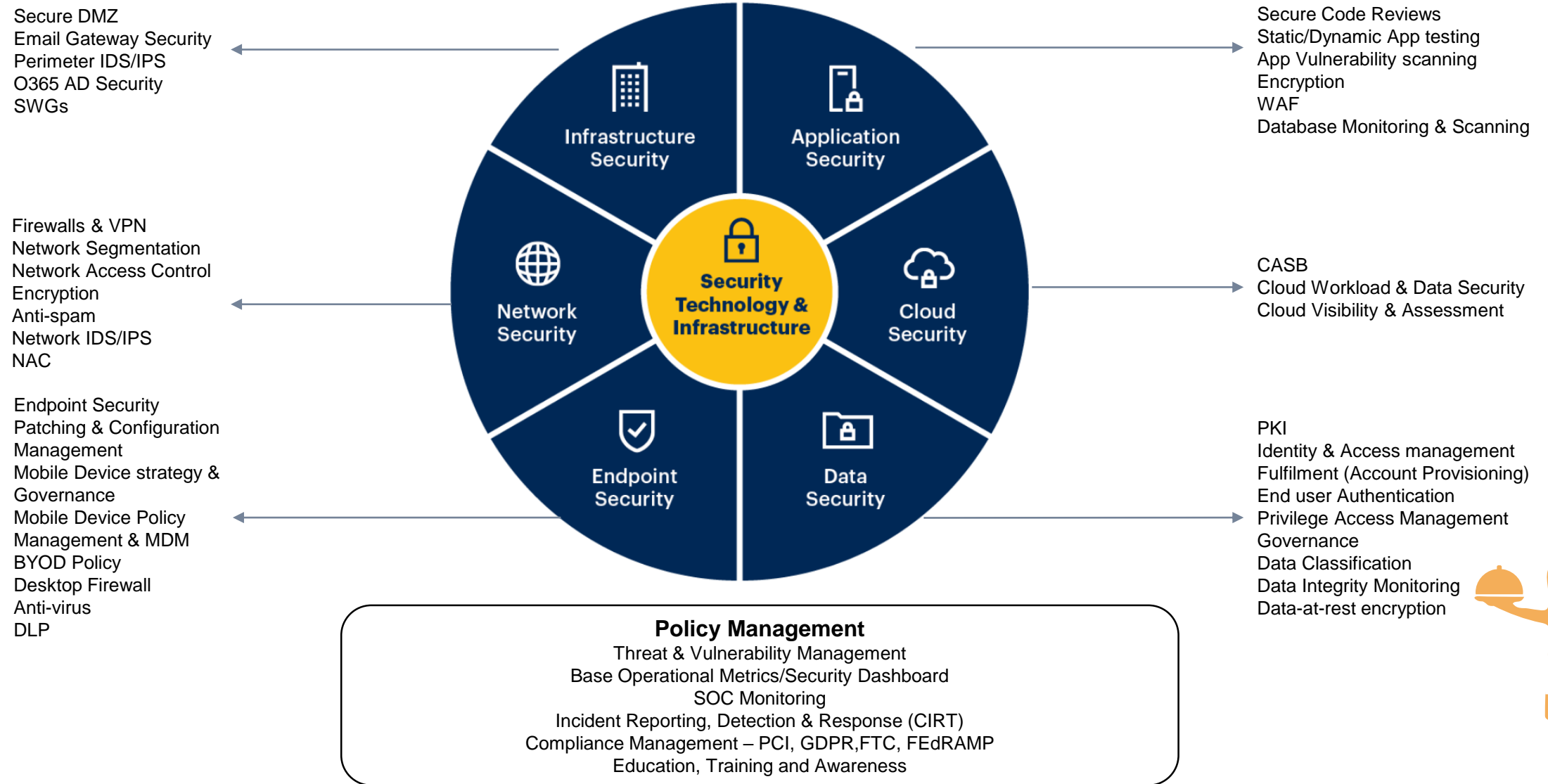
Digital security threats came from new and unexpected sources with sheer volume increasing. The threat landscape has become more diverse, with attackers working harder to discover new avenues of attack:

- Malware—92% increase in download variants
- Email—55% spam rate
- Ransomware—46% increase in new attack variants
- IoT—600% increase in attacks
- Mobile—54% increase in attack variants

Quite a challenge, but also an opportunity — building an integrated cyber defense platform



Cybersecurity Ecosystem



Managing Threats – Internal and External

Internal Threats



Lost or Stolen Devices



Malicious Insider



Employee Mistakes



Other (policy avoidance, contractor misuse, lost storage devices)



Phishing



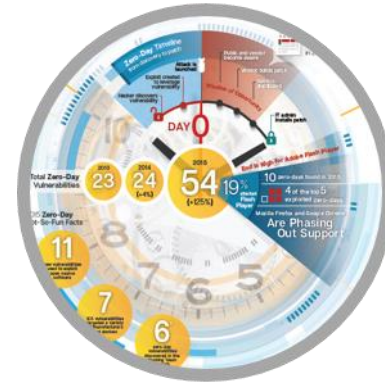
Advanced Malware & Ransomware



Advanced Persistent Threat or Advanced Actors



Stolen or lost credentials



Zero Days and Vulnerabilities

