A new security architecture is necessary to protect and to respond effectively to the cyber attacks

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A new era of Financial Services

COMPETITION

5.000+ FINTECH START-UP WORLDWIDE

SOURCE: FORBES

SECURITY

500 MILLIONS
RECORDS STOLEN TO FINANCIAL INSTITUTIONS IN 2014/2015 AS RESULT OF CYBER ATTACKS

SOURCE: SECURITY INTELLIGENCE

REGULATION

88%
FINANCIAL LEADERS DECLARE THAT MANAGE REGULATORY CHANGES IS A CONTINUING CHALLENGE

SOURCE: ROBERT HALF FINANCIAL SERVICES GLOBAL REPORT

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Security as a Business Priority

- High profile cyber attacks extend far beyond the IT department
- Only 8% of corporate leaders consider cyber security as the number one corporate issue

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Some famous Data Breaches
Not the latest…

July 2015

- **33M user** accounts with private data including names & CC released to Internet
- Huge damage to reputation
- NYT estimates **$850M** cost

June 2015

- **21.5 million records** hacked
- 4 million people affected with personal identifiable information

July 2014

- Sensitive financial and personal information of **83M customers**
- PGI estimates **$1B** cost, (bank spending **$250M** annually on cybersecurity)

December 2013

- **70 million CC** data stolen
- **$200M** damages
- Sales drop 4%
- **CEO & CIO resigns**

Current Security Methods Not Keeping Pace

- *“Our greatest vulnerability is cyber threats moving faster than our defences”*

Cyber Security has become a paradox:

- Security breaches significantly outpacing security spend
- Ad hoc approach to security no longer protecting valuable data and reputation

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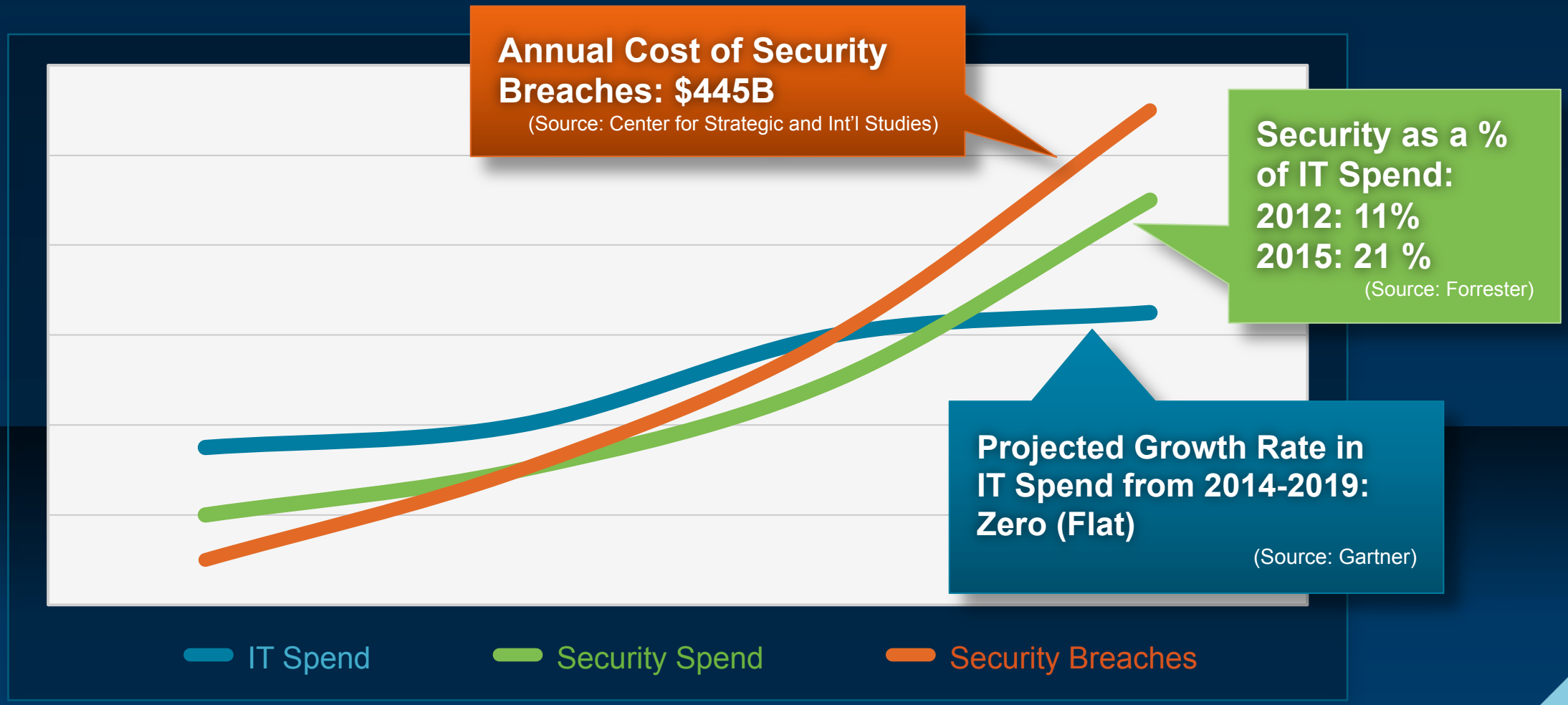
A Picture of Diminishing Returns

The Only Thing Outpacing Security Spend… Is Security Losses



Source: IDC

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Employees Also Pose Huge Threat to Organisations

- Employees who are careless or untrained in cyber security are one of our biggest threats
- One fifth of employees are willing to breach security to carry out their job effectively

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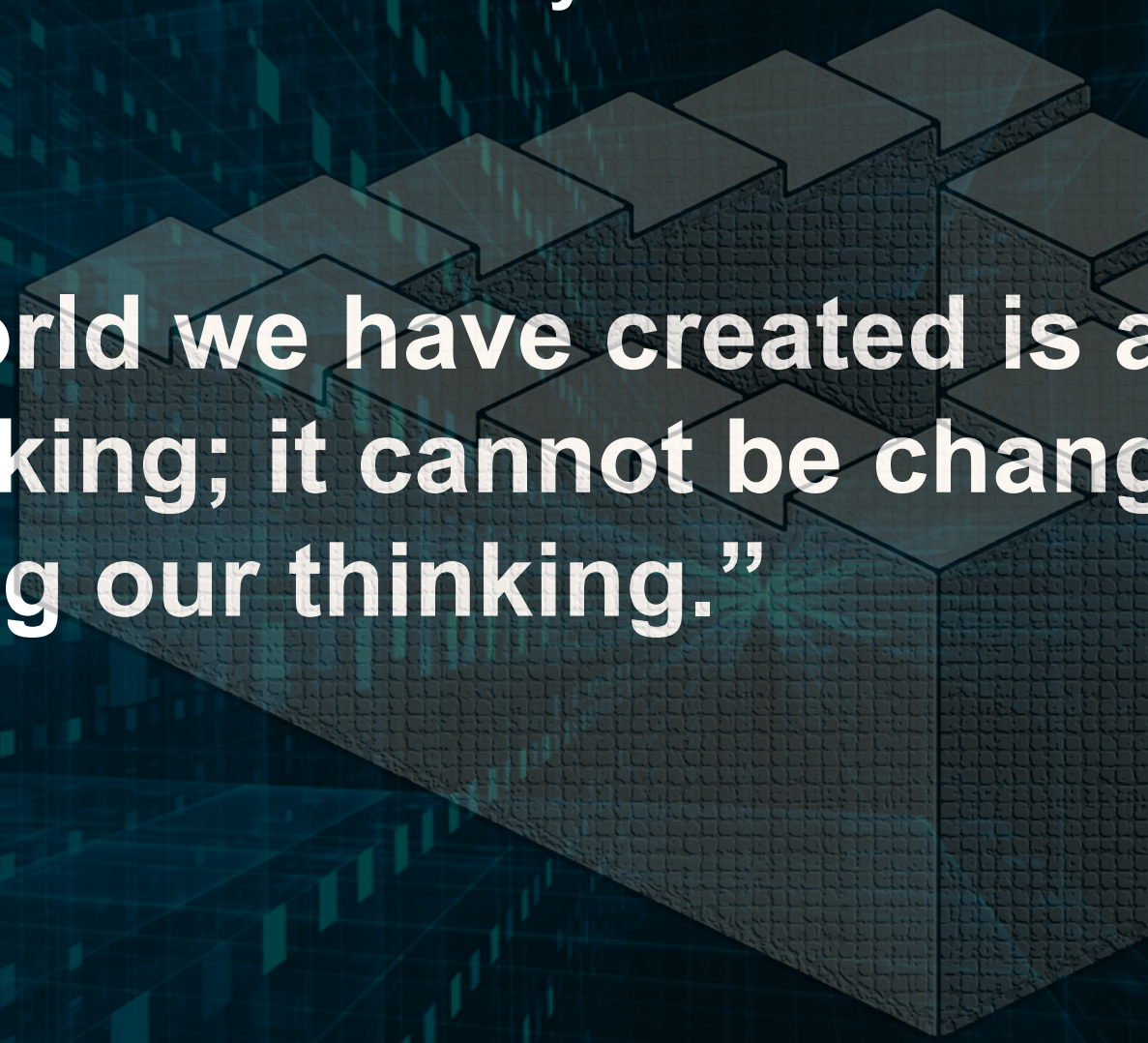
It's Time to Rethink Security



"The world we have created is a product of our thinking; it cannot be changed without changing our thinking."

Albert Einstein

Because We Lack an Architecture for Security,
We Cannot Fortify Security from the Inside Out

Architecture for Security

Security Policies

Virtualization Layer

Alignment, Ubiquity
Isolation

A Shift in Mindset

From: “How do I secure virtualization?” To: “Use virtualization to secure.”

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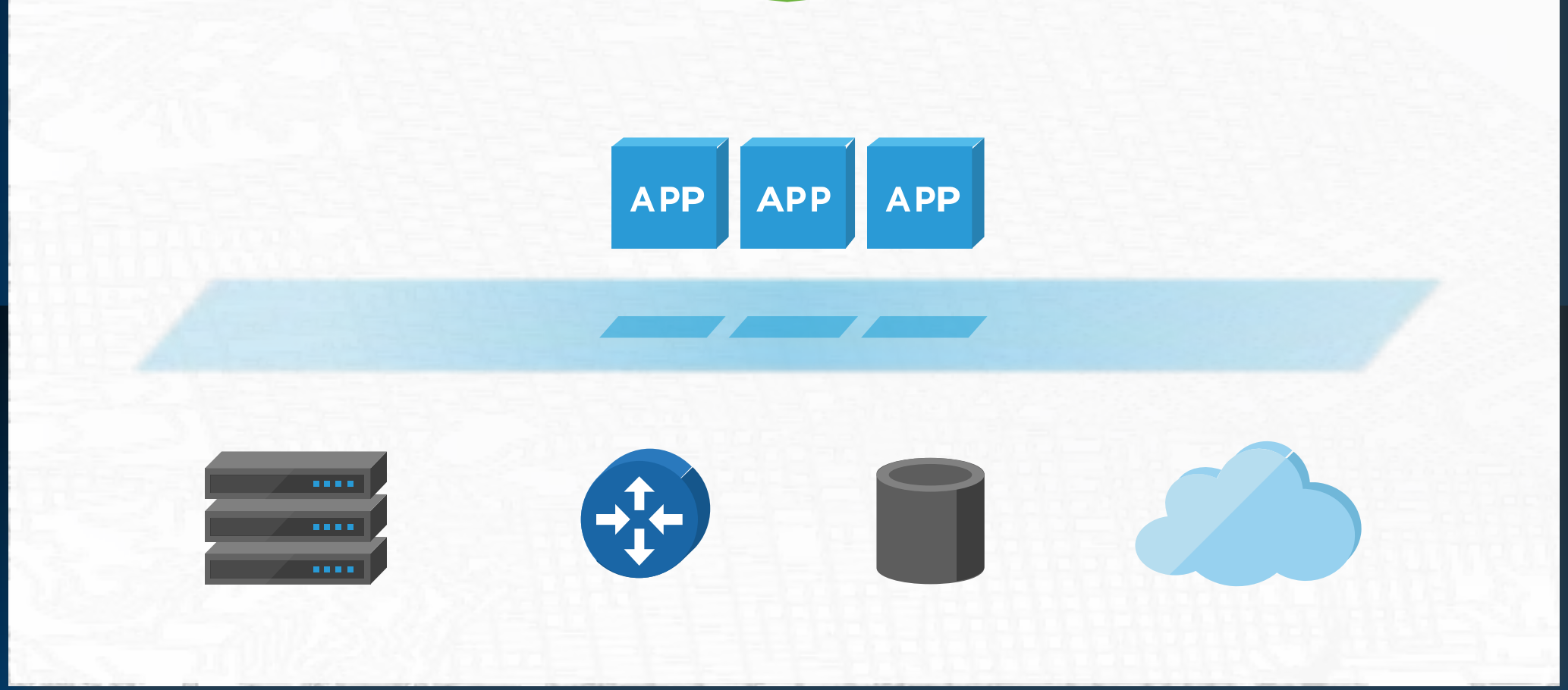
Unique properties of virtualization

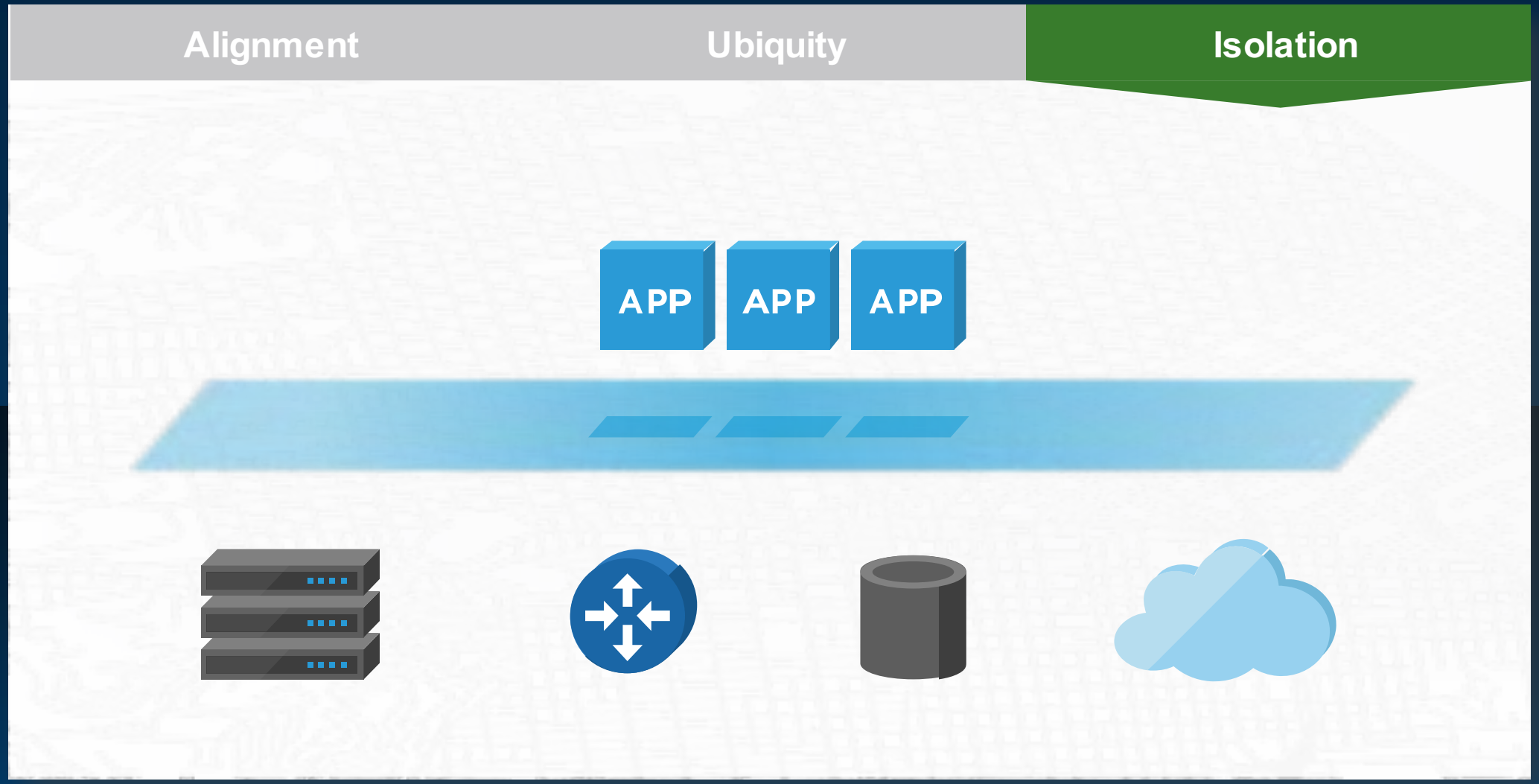
Alignment | Ubiquity | Isolation

Unique properties of virtualization

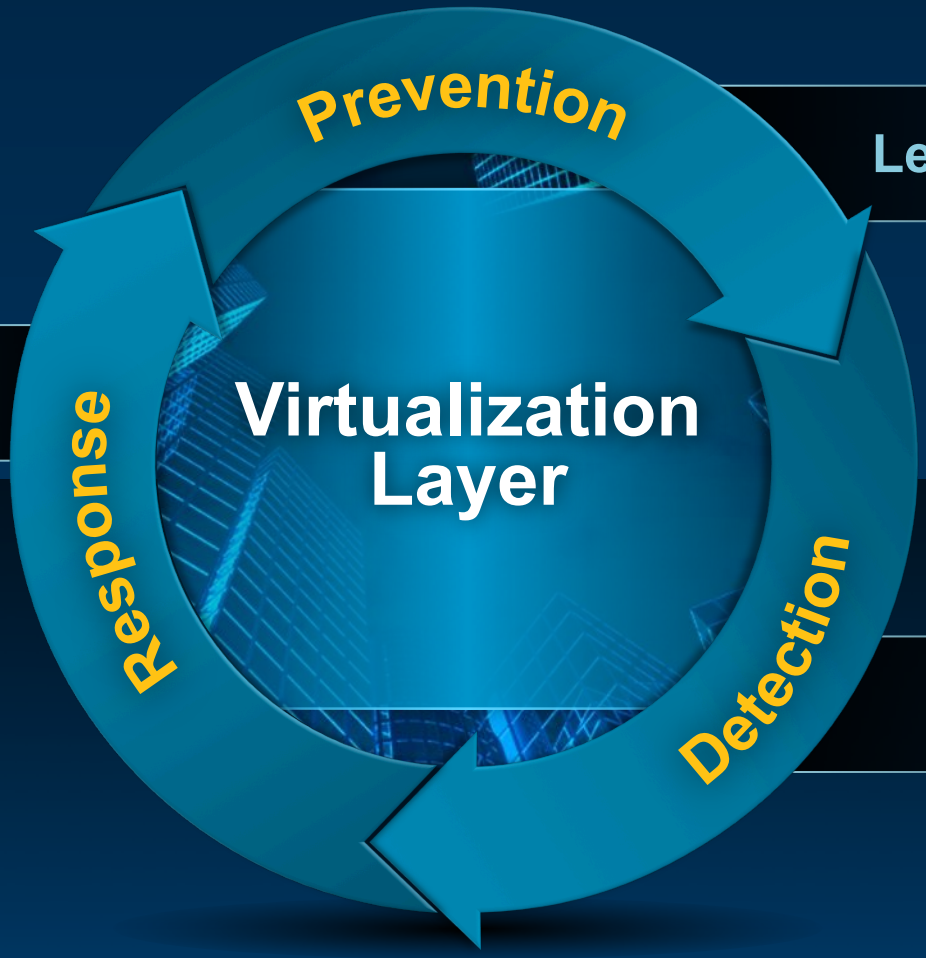
Alignment | **Ubiquity** | Isolation



Unique properties of virtualization



An Architecture to Transform Cyber Security As We Know It

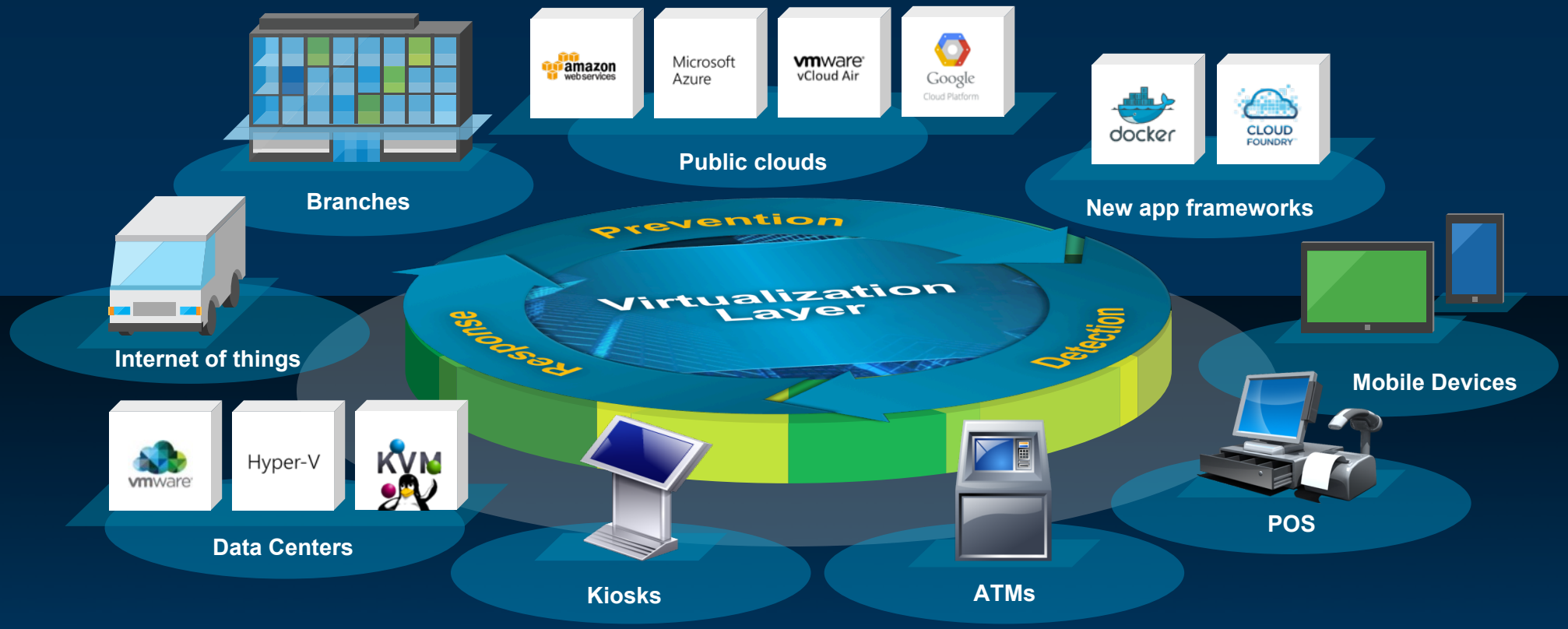


Least Privilege

Automation

Context

The Vision: Common Security for Heterogeneous End Points



Grazie.

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