

Digital Money

The Smart Business Leader's Guide to
Stopping the Hacker!

Digital Money

*The Smart Business Leader's
Guide to Stopping The Hacker*



David Stelzl, CISSP

David Stelzl
www.stelzlsecurity.com

The **Digitalization Mega Trend** is Here

IoT is Happening In Every Company

2016 Big Data, Cloud, Mobility...

80% of Businesses will be in the **Cloud** Soon...

People Want to be...**Connected and Digital**



The **Big Problems**

- **Critical Infrastructure** Attacks
- Bank of Bangladesh, \$80 Million
- FDIC Hack Cover-Up
- NSA Cyberespionage Group Hacked
- The Unpredictable, ... **ISIS**.





In the News...

- **Fraud** – Online Growth...
- **Ransomware** Four Times Bigger in 12 Months
- **CATO** – Bank's and Small Business
- Intellectual Property & **Aggregation**

“The Greatest Transfer of Wealth in History...WSJ”

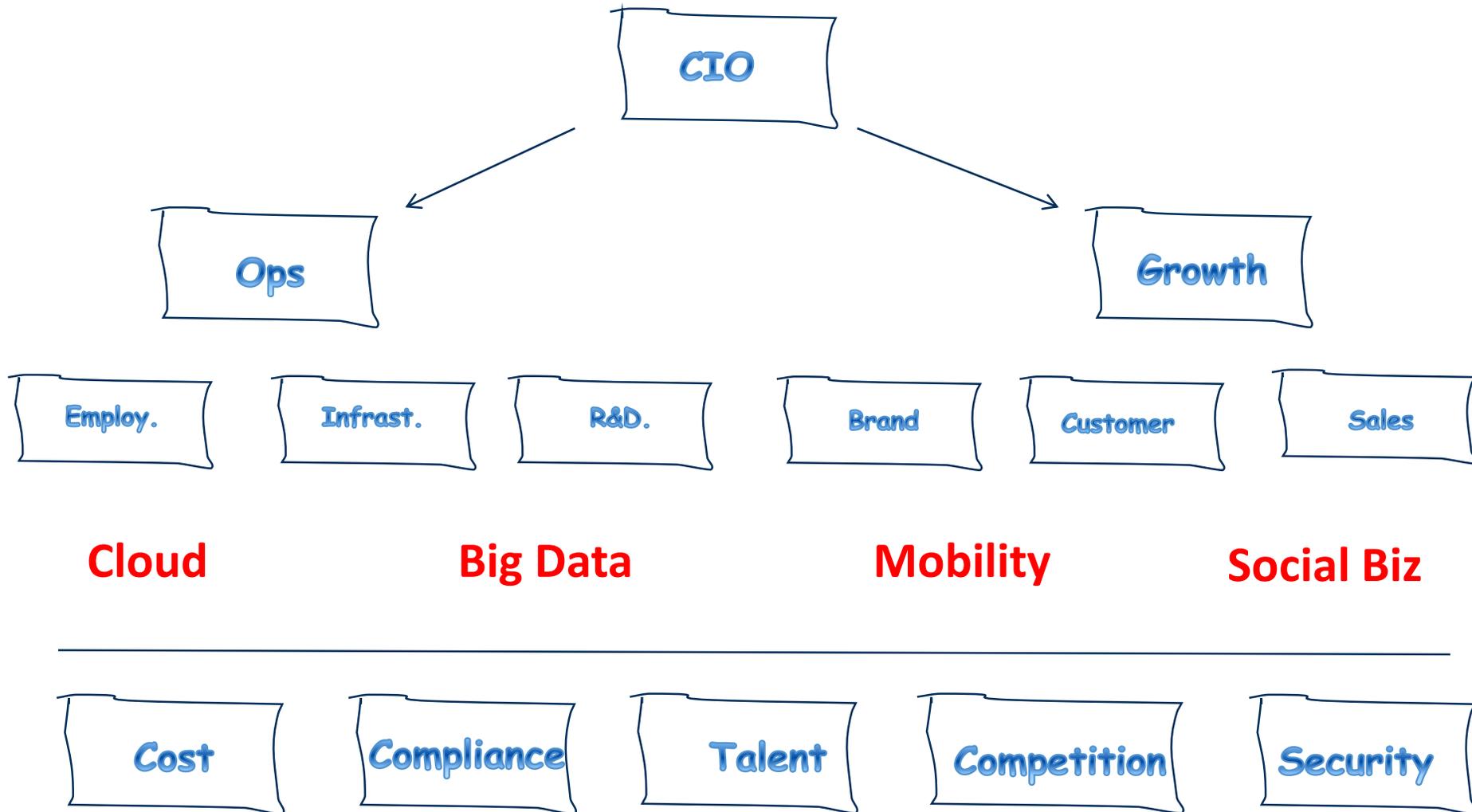
WE are at **WAR!**....



*“Yet because this war lacks attention grabbing **explosions** and **body bags**, The American People remain largely unaware of the dangers”...WSJ*

Unfortunately No One Is Listening!!!

The Tension - Profit and Risk...



#1 - Are You **AWARE
Of What's Happening?**

The background is a solid dark blue color. On the right side, there are several flowing, translucent light blue lines that curve and swirl, creating a sense of motion and depth. These lines vary in opacity and thickness, giving them a ethereal, smoke-like appearance.

It's in the **Book...**

David Stelzl

dstelzl@stelzl.us

www.stelzlsecurity.com

Digital Money

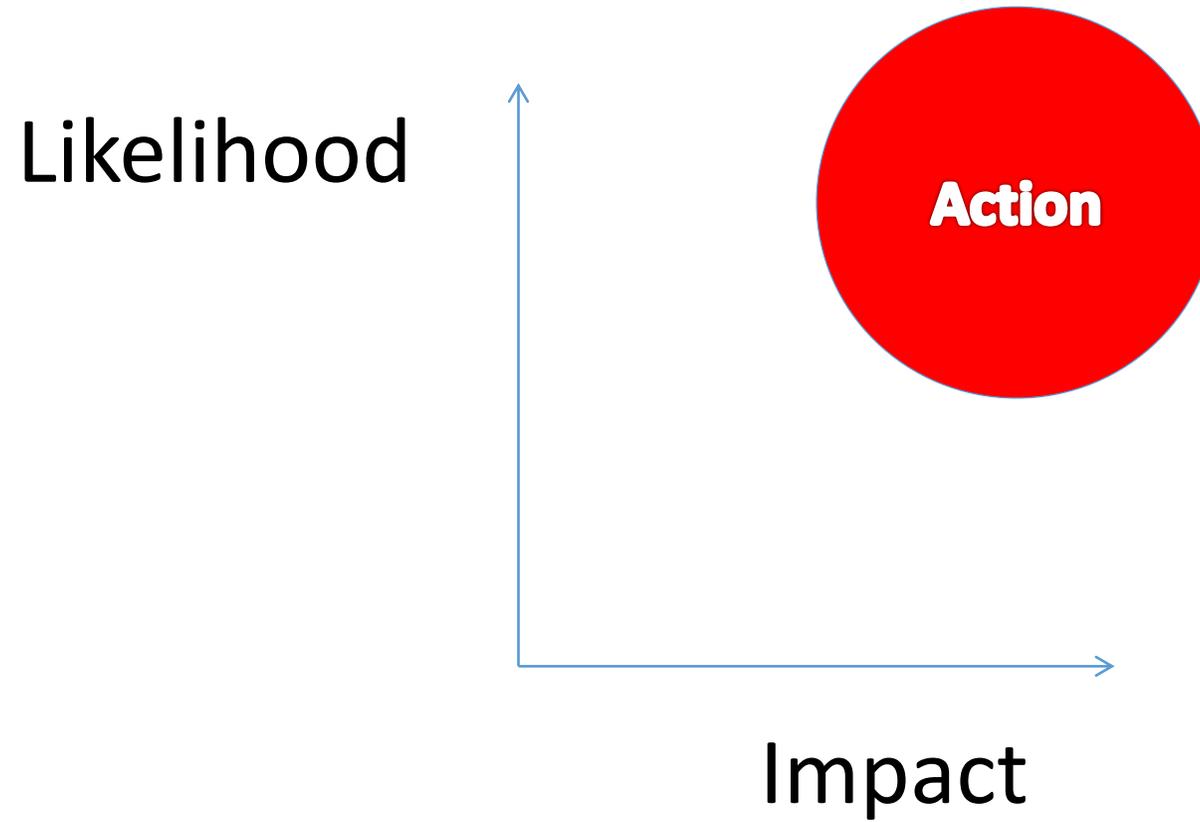
*The Smart Business Leader's
Guide to Stopping The Hacker*



David Stelzl, CISSP

RISK

The One Thing You **NEED** to **KNOW**



Social Engineering...

1. Mindset: Big Happy Family
- 2. System Takeover** - Polymorphic Malware
3. RANSOMWARE, Mobile Banking, CATO
- 4. CATO** – Small Business's Biggest Threat
- 5. Invoice Redirect Fraud**



BYOD = Be Your Own IT...

1. Mindset: It's my device
2. Apps help me do my work
3. My life and my work on one digital platform



Social Media Mindset

1. Mindset: Privacy doesn't matter
2. Truth – we don't understand data value
3. We can't imagine scams that are sifting us right now.



False Security

1. Mindset: I'm behind the Firewall
2. Passwords don't work.
3. Hackers build around our security

**TOP
SECRET**

Insider Threats

Mindset: My team is trustworthy...

Truth: “75% of employees **admit to stealing** from their employers...” WSJ

The other 25% are **lying**...



Nation States Sponsored...

Mindset: I'm not a target

Truth: Nations are building up their economy using our innovation...including **China, Russia, North Korea,**...

FDIC, Bank of Bangladesh,



FACT



Compliance...

Is Taking Over Security – While We Remain **Unresponsive....**

These Are Two Completely **Separate Issues!**

BOTTOM LINE



No One Has it Covered...

The FBI Tells Us – It Takes An **Average of 14 Months** for Companies To Detect An Intruder...

Most Won't Know Until **It Is Too Late!**

The background is a solid dark blue color. On the right side, there are several flowing, translucent light blue lines that curve and swirl, creating a sense of motion and depth. These lines are more concentrated on the right and fade towards the left.

#2 – The **ONE BIG
Mistake**

ROOT PROBLEM

The **“House Principle”**

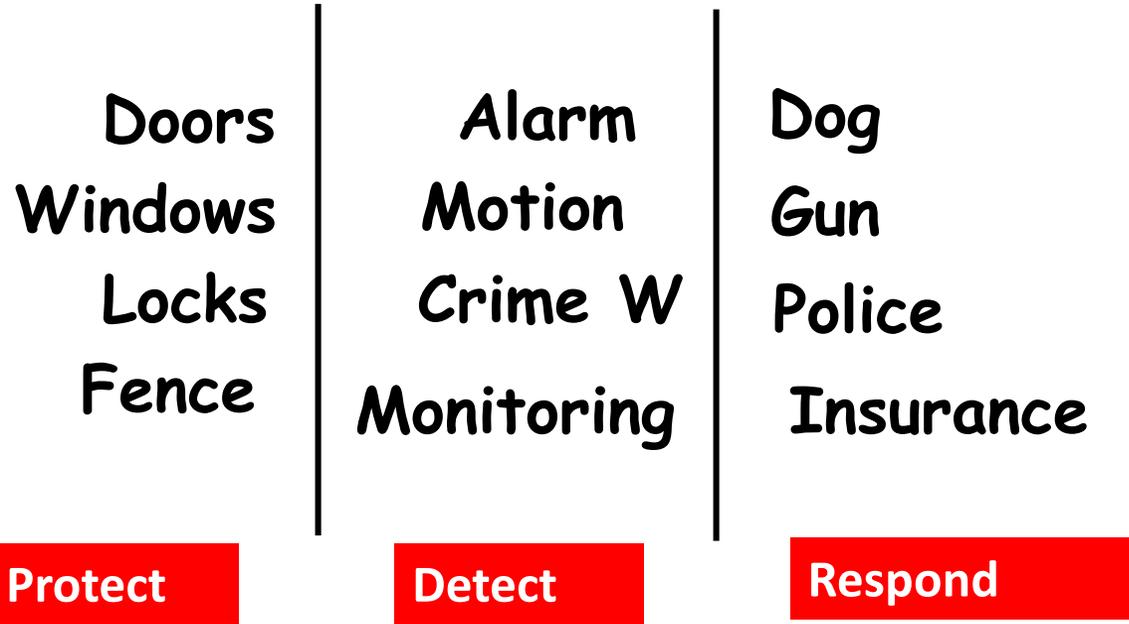
How Does **Security Work?**

We are spending more than ever on
Security – **How are they getting in?**



ROOT PROBLEM

“Physical Security Works”



ROOT PROBLEM

Traditional Network Security
Is **failing in most cases...**

- Firewalls
- Passwords
- Encryption



ROOT PROBLEM

Traditional Network Security

The Cloud Principle...



- Nearly every company has **Malware**
- **250,000 Zombies** Created Daily
- Cybercrime is a **Trillion Dollar Industry**

ROOT PROBLEM

| | Protect | Detect | Respond |
|----------------|----------------------|--------------|---------|
| Administrative | Security Policy | | DRP |
| Technical | | Intelligence | |
| Physical | Locks on Data Center | | |

“The Coverage Model”

#3 Stopping The Leakage

**Create a Security Mindset
Culture in Your Company**



Data is **Money**

- Your money is **digital**.
- The computers are the cheap part – It's not about the network.
- The company makes money with data, not computers.
- In a second, it can all be erased or encrypted...now what?

Compliance is NOT Security

- **Compliance** is Bureacracy.
- **Compliance** is Expensive.
- Compliance is what happens when we don't secure our **Data!**



SECURITY is an
Enabler...



- Like safety equipment, security enables us to do crazy things safely.
- **People** enjoy safety equipment in sports
- Learn to embrace **Safe Computing**

Your Data is a **Secret** – Keep it Private



- Destroy data you don't need
- Stop putting personal data online
- Limit access – need to know only
- Remember, data **agregation** has already **profiled** most of your secrets...

They **Can Get In...**

- Connected = **Exposed.**
- Firewalls, Passwords, and Encryption **Don't Work.**
- Remember the iPhone...
- Everything is Connected.
- Protection Fails Eventually



Expect They Are In

FIND Them...

- Assessing Risk Continuous
- **Testing** for Vulnerabilities
- Watching for **Symptoms of Compromise**
- **Detect them before it's too late..**



Poised – **Ready to Respond**



- Be **Prepared** to Respond (Practice)
- It Takes Most 14 Months...**Keep Looking**
- Study the **New Threats**
- Response fast and **deliberately**

David Stelzl
704-243-0014
www.stelzlsecurity.com

SECURITY Matters