





Top 10 Cyber Security Priorities for 2018



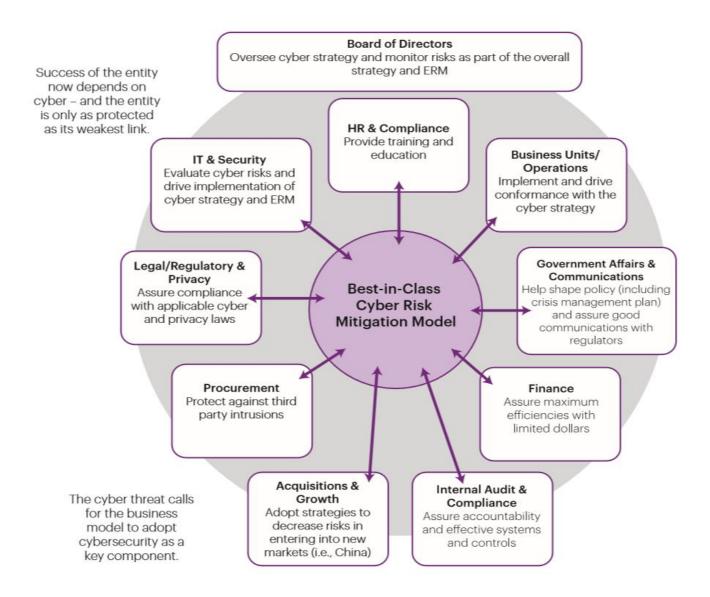
Common Security Problems to Organizations

Hackers have all the time in the world to lay foundations for crippling attacks, which means you have no time in becoming less vulnerable

Problems commonly faced are:

- Insider Threats
- External Threats
- Policy and Strategy alignment
- Actualizing timely mitigation processes
- Email phishing and social engineering
- Physical attacks
- Implementation of robust controls during an incident

Cyber Security Responsibility is for ALL



These critical components all need to collaborate and be a part of the cybersecurity strategy.

CYBER SECURITY vs CYBER RESILIENCE



Questions to Ask



How would a cyber attack affect your reputation and brand?



How will your organization address the key risk areas of security, resilience and data leakage?



What is your organization's exposure to cyber attack shocks?
How responsive is your IT organization?



Could gaps or weaknesses in your IT controls and security be contributing factors?



Is your organization covered against data leakage, loss and rogue employees?



NIST Cyber Security Framework

Identify

Protect

Detect

Respond

Recover

Asset Management

Access Control

Anomalies and Events

Response Planning

Recovery Planning

Business Environment Awareness and Training

Security Continuous Monitoring

Communications

Improvements

Governance

Data Security

Info Protection Processes and **Detection Processes**

Analysis

Mitigation

Communications

Risk Assessment

Maintenance

Procedures

Improvements

Risk Management Strategy

> Protective Technology

Cyber Security Benchmarking & Maturity Framework



Cybersecurity Risk Management

Risk Management

People & Culture

Infrastructure Management

Access & Data Management

Third Party Management

Cybersecurity Vulnerability Management

Vulnerability Management

Patch Management

External Dependency Monitoring

Cybersecurity Incident Management

Event Detection

Response and Mitigation

Threat Intelligence

Cyberthreat Management

Cyber risk Remediation

Information Sharing

Metrics and Reporting

Continuous Improvement

3 ON 3 ELEMENTS OF SOLUTION FOCUS

PEOPLE

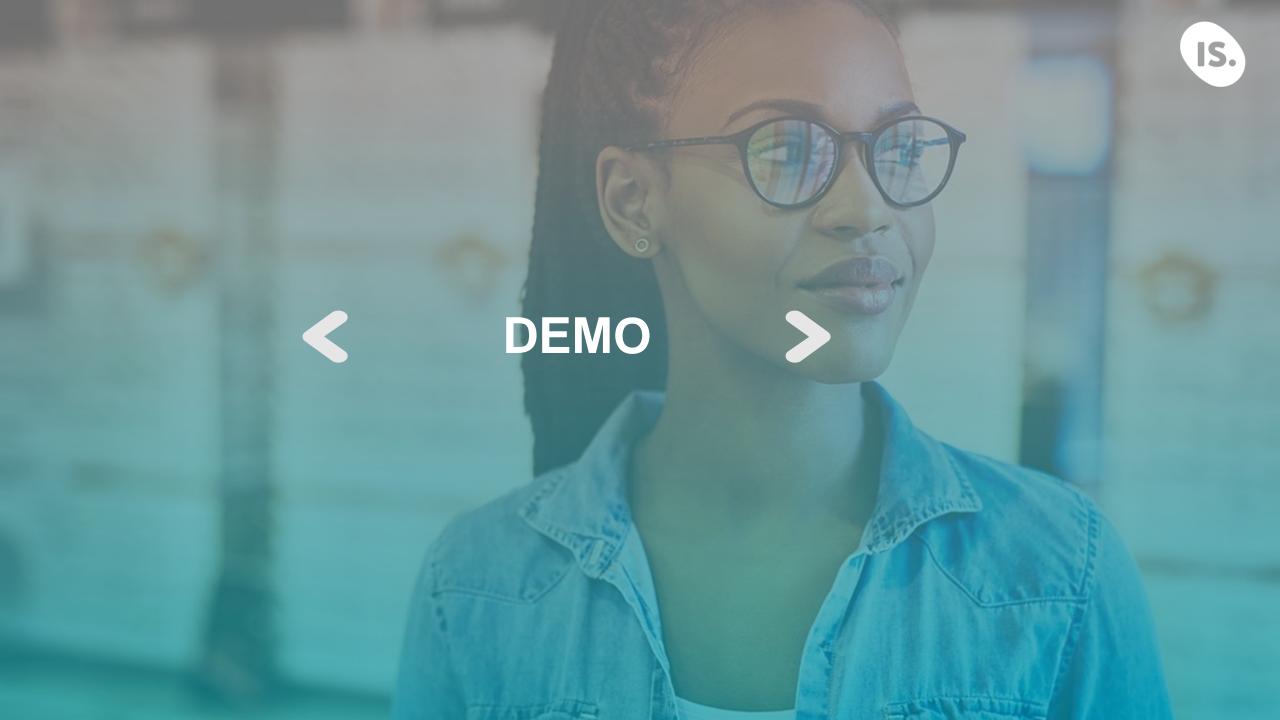
PROCESSES

CONTROLS

CONFIDENTIALITY

INTEGRITY

AVAILABILITY





It takes 5 minutes to break into a Windows or Linux machine that is unencrypted and only 6 seconds for a Macintosh laptop



Opening a Website is good enough to tell a hacker how much battery level your laptop has and a malware can be forced to you to download and take over your computer.



Opening a malicious document can make a hacker activate your camera and even listen to your Mic without you noticing.



Staying on a wireless network can make a hacker grab your passwords on the fly, make changes to websites you visit and even force you to play music that you don't want at the highest volume possible.



Opening a simple malicious app on your phone can give a hacker indefinite access to your phone such as call records, SMS, force apps to open and even download your pics, videos as well as your WhatsApp database.



Plugging a phone to charge on a laptop or inserting a flash disk can enable you to get fully hacked in less than 5 seconds.



A single mobile application reverse engineering can lead to a corporate network breached.

EVERYDAY BEST PRACTICES

- NEVER disclose passwords
- Limit IT information disclosed
- Allow System and Antivirus Updates to run
- Escort guests in sensitive areas
- Question people you don't know
- Talk to employees about security
- Centralize reporting of suspicious behaviour
- Operational Security Guideline

Internet Solutions is a division of Dimension Data

Building A Strategy RoadMap



GAP ANALYSIS

Vulnerability Assessment, Penetrations Testing, Business Impact Analysis



RISK PROFILE

Know what to prioritize according to the Risks Identified



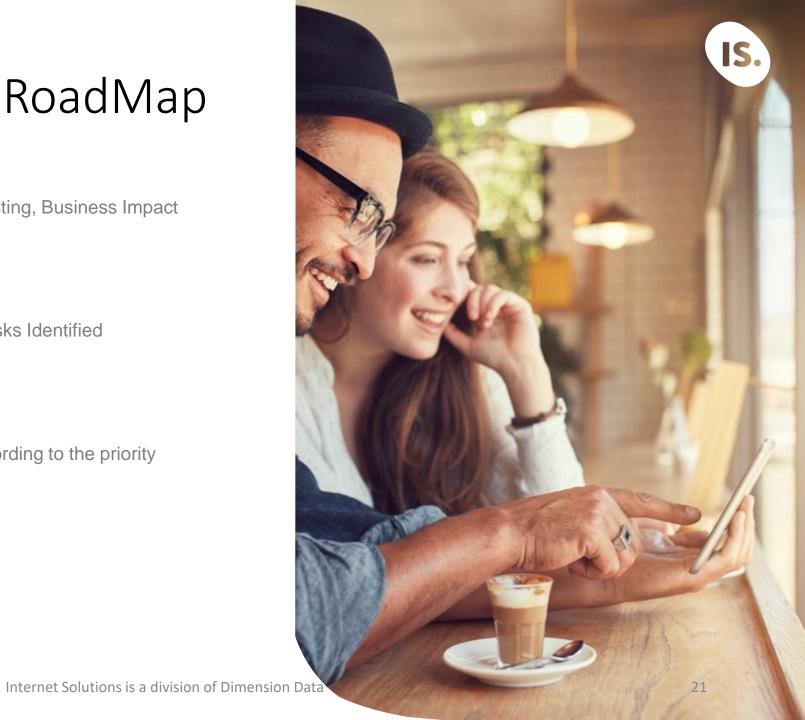
BUDGET PLANNING

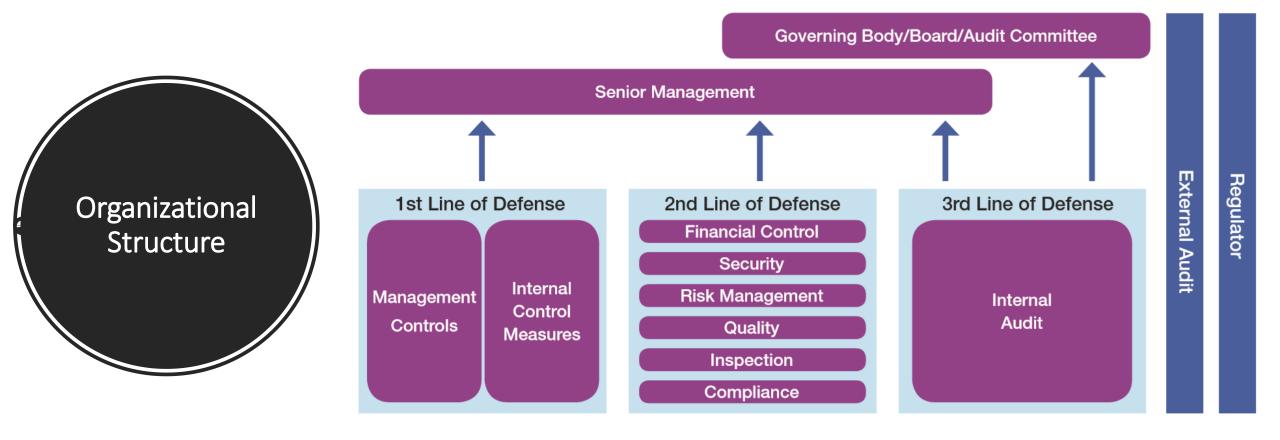
Spread out the Cyber Security budget according to the priority above



START SOMEWHERE

Start Implementation someday Outsourced Managed Services Board Level Involvement









STEP 1 SYSTEM HYGIENE

Establish a proactive and systematic process for managing standard system hygiene



STEP 2 DEVELOP A PLAN

Create a cross functional team of senior management to plan for cyber security events and consider hypothetical attacks



STEP 3 MAP OUT RISK PROFILE

Study cyber patterns and attack modes to develop a tailored approach to protecting company assets



STEP 4
ASSESS &
MEASURE

Focus on rough figures, not precise estimates and avoid analysis paralysis



STEP 5 MITIGATE RISK

Invest in risk mitigation measures to protect company assets of greater risk



STEP 6 CYBER INSURANCE

Obtain cyber insurance to provide contingent capital and specialized assistance in the event of an attack



STEP 7
GET
STARTED

A rough plan is okay – becoming resilient to cyber risk starts with a single step

