What comes to mind when you think of Cyber Security Management?



What is Cyber Security?

Protecting an organisation and its networks, applications and data from attacks, damage and disruption from internal and external threats.

Rising threats

Over 20 billion devices of all types - from refrigerators, vehicles to fitness trackers - are connected to the internet, with millions more being connected weekly and 5G technology facilitating connectivity. The number of security flaws and vulnerabilities is spiraling.

\$1,5trn+

The estimated annual economic cost of cyber crime.

46%

The percentage of organizations that reported they did not have a significant cybersecurity incident. The real problem is not realizing you've been attacked and failing to stop the breach from becoming a disaster.

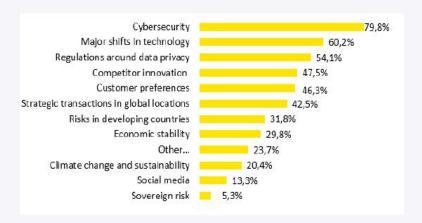
101 days

The average number of days to spot a global attack.

"Results based on our Goba! Information Security Survey https://www.ey.com/en_be/giss

Top emerging risks according to the EY Global Internal Audit Survey

Top emerging risks according to the results of the EY Global Internal Audit Survey*:



*The EY Global Audit Survey is based on a questionnaire taken from +600 Audit Committee members, CFOs and CEOs globally, from both public and private sector, in which the future of Internal Audit (incl. Enterprise Risk Management) has been assessed.

This survey was executed medio 2020 and takes into account the impact of the current pandemic.

Cyber Security > The scale, complexity and frequency of cyber attacks and threats is increasing

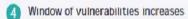
Many organisations are beginning to acknowledge that insiders and employees within the business pose as one of the largest threats. Rapidly developing technology is disrupting and leaves room for vulnerabilities.



- Malicious activity
 Carelessness
- Social engineering
- Phishing
- 3 Technologies are increasingly connected
 - Threat landscape is constantly evolving
 - Interconnected technology and shift to the cloud imposes new threats
 - Securing existing IT environments remains a challenge (e.g. shadow IT)



- Invisible
 - Motivated
 - Well-organized
 - Highly knowledgeable and strong expertise





- Ransomware attacks are on the rise
- Hard to keep up the pace of cyber attacks
- Hard to detect cyber attacks and difficult to recover

667%

increase in phishing attacks since

800

e-mails per day reported per million inhabitants 7 0% ran

of breaches are caused by ransomware and malware technologies

2% of organisations are able to detect threats

Can Exploit

CYBER SECUTIRY MANAGEMENT FD 5.9

Cyber Security > what is cyber risk?

Cyber risk is the possibility that the actor behind the cyber threat is successful in causing this harm (i.e. successful cyber attack).



Threat (actor)

Anything capable of harming information systems or compromising the data and services on them.

- Insider
- · Criminal Enterprise
- · Nation States
- · Reckless Employee
- · Untrained Employee
- · Information Partner



Vulnerability (weakness)

A weakness on a system or business process that can be abused to generate an impact.

- · Missing security updates
- · Excessive privileges.
- Insecure third party provider
- · Lack of identity protection
- Insufficient threat protection

And cause

404

Impact (loss)

The damage done to your organization financially, reputationally or logally.

Primary Losses

- · Financial damages
- · Reputational damage
- Loss of Availability

Secondary Losses

- · Legal defense costs
- · Public relations costs
- · Loss of market share

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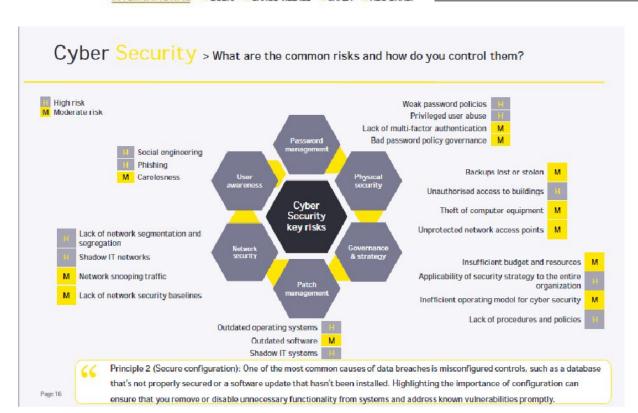
Cultur Security Management

Cyber Security > Choose a strong risk management framework

66

Principle 1 (Risk Management): Applicants must understand the risks they face before implementing security measures. This enables them to prioritise the biggest threats and ensure their responses are appropriate.





SECURE HOME WORKING

Principle 3 (Home and mobile working): Many organisations offer employees the chance to work from home or on the go, but this comes with security risks. Remote workers don't get the same physical and network security that's provided in the office, so organisations must respond accordingly. That should include limiting access to sensitive systems and creating policies for protecting laptops, removable devices and physical information outside the office.

Employees can be asked in certain circumstances to avoid the offices as much as possible and to work from time. This is enabled by applications such as Office 365 e-mail, Microsoft, Teams and SharePoint, Using these applications, employees have access to their mailbox and their occuments in an online environment. So that they can continue their work - independent from their location - and communicate and meet with their colleagues.

However, working in an online environment also brings risks. Therefore, it is important to keep a few things in mind to creare that information is not simply spread over the internet. That is why we would like to provide the following set of guidelines and tips.

Connect and work securely

3

Connect to a Wi-Ei network you know and trust

You never know who is watching or listening on unknown networks.



Connect securely with the help of a VPN

Always work with a VPN when covering company information.



Only use applications approved by your employer

Approved applications are managed and monitored by the employer and the dedicated IT or security teams. They have been chosen with security in mind Examples can be Chellerue, Learns, Chitlook, Office 365, NAP.

Beware for e-mails and other reports regarding the Coronavirus or COVID 10 which anticipate to current events and take advantage of situations like trils to obtain sensitive information or financial gain.

Be vigilant

People with had intentions tend to take every opportunity to obtain information or to make profit. Cyberc limit ats also misuse current events and terms to play on people's feelings and provoks specific responses.



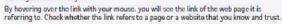
Q (

Always verify the sender and the source

Verify if the sender and the source are reliable and credible



Do not just click on any link





Never just enter your login credentials

Only use your login details on approved applications.



To good to be true?

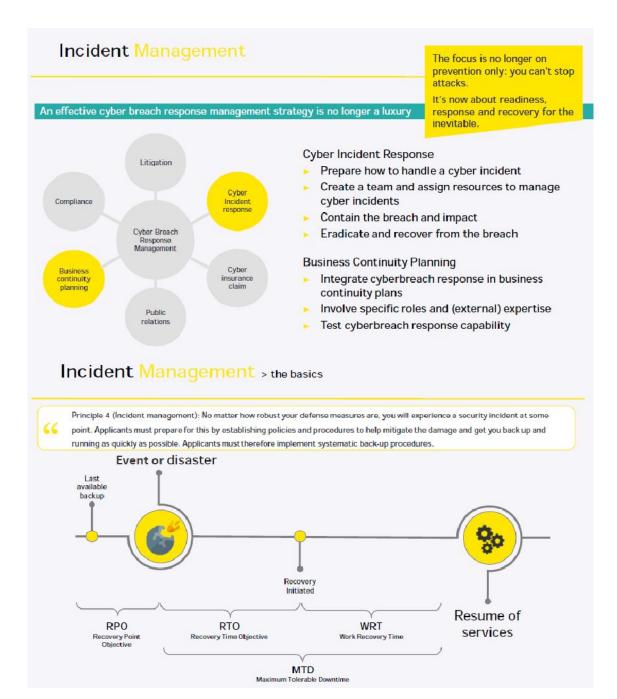
If a campaign or an initiative looks too good to be true, it probably is. He vigilant regarding promotions or organizations that offer beautiful things for free or little money.



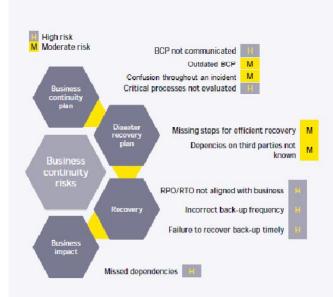
De vigilant for compelling language or immediate actions

A phishing email is characterized by compelling language or the requirement for immediate action. De extra vigilant if a promotion is only valid for a very limited time.

Cytier Security Managemen



Incident Management > What are the common risks and how do you control them?



Incident Management > points of attention





Data access | Identity and Access Management (IAM)



Principle 6 (Managing usor access): Applicants must create access controls to ensure that employees can only access information that's relevant to their job.



IAM is a collective name for products, processes and policies used to manage identities and access rights.



First assess the current status of the IT environment. This step involves both analyzing the business requirements and assessing existing systems.



IAM systems are designed to perform three important tasks: identify, authenticate and authorise.



Relevant stakeholders should be involved in an IAM implementation. Hereby it is necessary to take the needs and opinions of the users into account.



An IAM policy enables you to identify violations more easily, remove inappropriate access rights and revoke access when necessary.



It is essential to follow an incremental approach and not try to implement the entire IAM solution in a single phase.



Limits internal threats, as employees can only access the systems they need to perform their specific tasks.



Enormous time and cost savings can be achieved by using the right IAM solution that can grow with the needs of the organization.

Data access | Access management

RABAC: Role-Centric Attribute-Rased Access Control

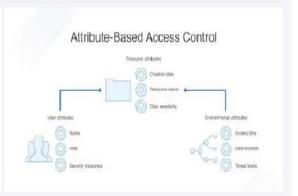
RBAC: Role-Based Access Control

- Creation of roles based on job description, authorization and employee responsibilities
- Organization has a clear overview of the active roles with the corresponding employees
- · Facilitates the joiner, mover, leaver process

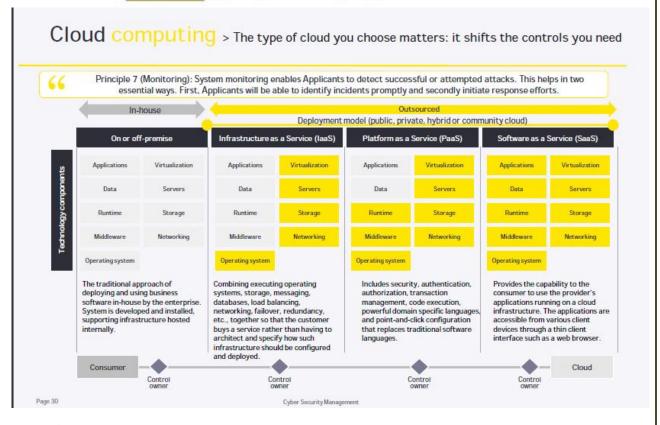
ABAC: Attribute-Based Access Control

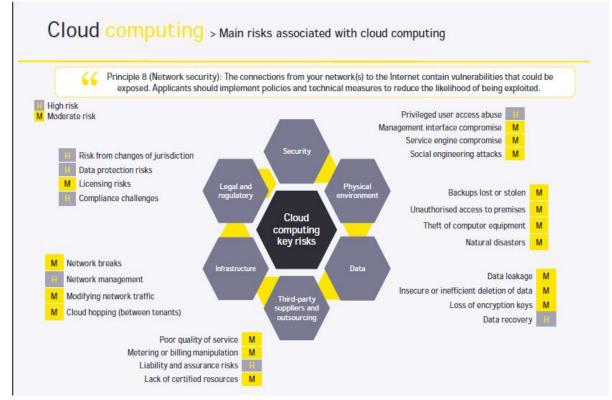
- Creation of rights based on attributes such as user characteristics, environment characteristics and resource characteristics
- Reduces the risks of unauthorized access as it can control security and access on a detailed manner

Role-Based Access Control Libers are assigned to roles Ficher definition authority level Permissions are lathorities for appropriate roles Appropriate roles









Removable media



Principle 9 (Removable media controls). USD's and other removable devices are the source of many security issues. Not only are they often used to inject malware but they are also involved in many insider incidents. Employees are prone to losing removable devices or leaving them plugged into computers where unauthorised retries can access them.

Applicants must therefore create policies emphasising the need to digitally, as well as physically, protect removable devices.

Removable media refers to any form of electronic storage device or carrier that can be removed from a system. This includes CDs. DVDs. tapes, external hard drives, flash drives (e.g. USB sticks) and SD cards. It also includes iPads and smartphones.



Removable media gets lost, damaged or stolen



- Accessible by third parties

Lost work



Spread of mallclous code



- · Infected by viruses or malware
- Theft of information
- · Damage to computer system



Principle 5 (Malware prevention): Malware is software that is specifically designed to disrupt, damage, or gain unauthorized access to a computer system. To mitigate these risks, Applicants should implement anti-malware software and policies designed to help prevent employees from falling victim.

Removable media



How can we minimize the risks involved?

- Take responsibility for your removable media and don't leave it unattended or exposed to extreme
- 2. Use a password encryption on every device.
- Ensure a backup of data saved on a removable
- 4. Be cautious about removable media of unknown
- 6. Disable 'autorun' on every device.
- As soon as the information is no longer needed, delete the information from the removable media.

Accountability, user education and awareness



Principle 10 (Accountability, user education and awareness): Employees play an essential role in their organisation's security practices, so they need to be taught their responsibilities and shown what they can do to prevent data breaches

Therefore, Applicants should implement appropriate training programs to not only create awareness but also to educate their staff how to achieve an effective Cyber Security environment. The Applicant shall assign a specific resource responsible for all items related to Cyber Security Management.



Workshops increase interactivity and allow for content tailored to your staff.



eLearnings offer the possibility to better monitor the participation and knowledge of employees on an individual level.



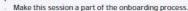
Regular internal communications promote continuous awareness of privacy throughout the organization.



A cyber-conscious organization can rely on its employees to report issues in time to the right persons or deal with them independently.



When recruiting new employees, provide a general information session about Cyber Security Management and their obligations with regard to personal data.





- Schedule regular training sessions for employees.
- Take into account their responsibilities and the nature of the personal data they come into contact with.
- Always provide a short questionnaire or quiz after the training, and keep a precise record of both the participants and the final scores in a central overview.
- Change the (order of) the questions each time and update the content at least annually.



Conduct regular awareness campaigns explaining basic principles of Cybersecurity

- Phishing Campaign
- How to protect vulnerable data

Phishing

Phishing is a form of computer crime whereby an attacker acts as a reputable, reliable or a well-known party in order to obtain personal information from the victim, such as credit card details or login information or in order to install malicious software (such as a malware, ransomware etc.).

Types of Phishing



Traditional Phishing

A phishing email will be sent out to a large number of randomly selected employees



Spear Phishing

A phishing email will be sent out to a specific, targeted group of employees



Whaling

A phishing email will be sent to a very limited group of people or 1 specific target, mostly a member of the C-suite

Approaches of Phishing



Receive personal information

The user will be redirected to an apparently familiar looking environment and will be asked to provide personal information in the format of login credentials or banking details



Spread malware as an attachment

The user receive an email with an attachment or link to an attachment. When they open the file, an harmless



Unauthorized access to internal systems

The user will be redirected to an apparently familiar looking environment and will be asked to provide personal information in the format of login credentials or banking details

Cyber Security > Threat Landscape 2022

Dependence on Technology is becoming a defining feature for modern organizations. This heavy dependence exposes them to a variety of cyber attacks that could cause harm to an organization, industry or to the system as a whole.

The Europol IOCTA Report* highlights several trends for 2022:

- The pandemic prompted significant change and criminal innovation in the area of cyber crime.
- Ransomware remains the most dominant threat as criminals increase pressure by threatening publication of data if victims do not pay (e.g. DDoS attacks).
- Social Engineering and Business Email Compromise (BEC) attacks have grown in sophistication and have become more targeted.
- Mobile malware evolves with criminals trying to circumvent additional security measures such as two-factor authentication.
- Criminals continue to abuse services such as VPNs, encrypted communication services and cryptocurrencies.

* https://www.europol.europa.eu/activities-services/main-reports/internet-organises/crime-threat-assessment-locta-2021



Supply Chain Risk

SWIFT.

Payment System Attacks



Engineering

Insider Threat





Poor Breach Readiness



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ey.com/be

It's also important for business to grasp the fact that, however strong their data security precautions, there will always be some risk. 'You will never have the perfect system that can block everything,' 'Instead, it's about creating awareness and, with something like phishing, making sure your employees know about this and the techniques the criminals use.'

THE VOICE OF THE INTERNATIONAL MOVING INDUSTRY

