

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 spiralling.

\$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**.

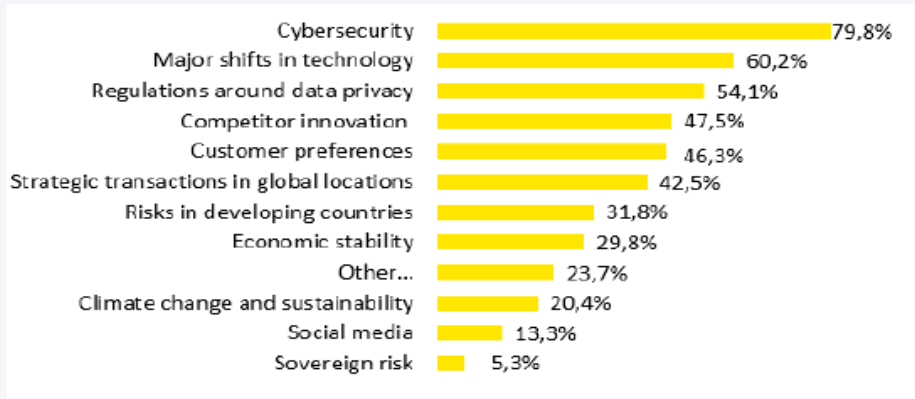
*Results based on our Global Information Security Survey
https://www.ey.com/en_be/gtss

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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.

1 Employees pose a threat



- Malicious activity
- Carelessness
- Social engineering
- Phishing

2 The adversaries are tireless



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

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)

4 Window of vulnerabilities increases



- 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 COVID-19 pandemic

800 e-mails per day reported per million inhabitants

70% of breaches are caused by ransomware and malware technologies

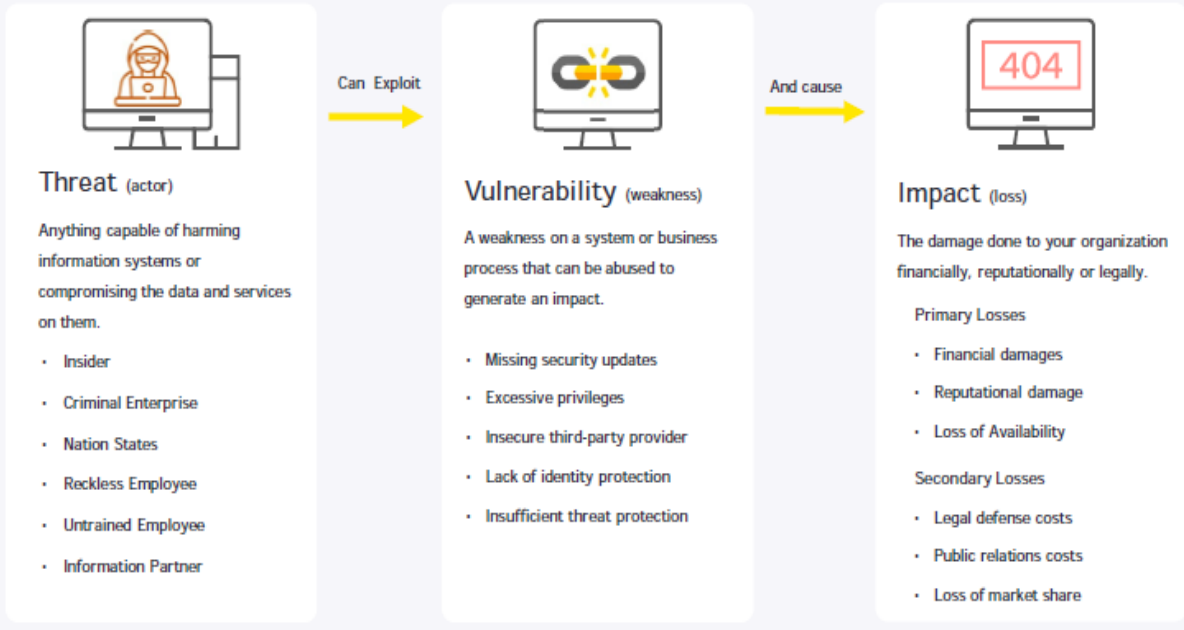
12% of organisations are able to detect threats

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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).

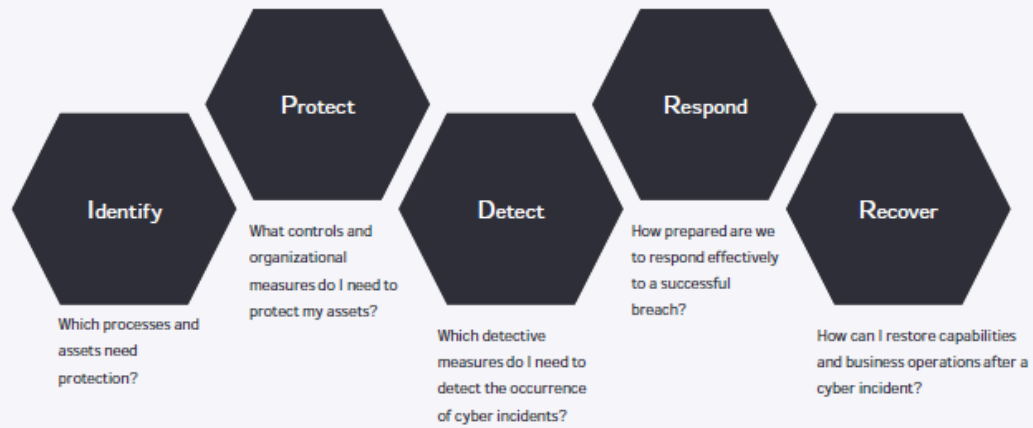


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Cyber Security Management

Cyber Security > Choose a strong risk management framework

“ 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.

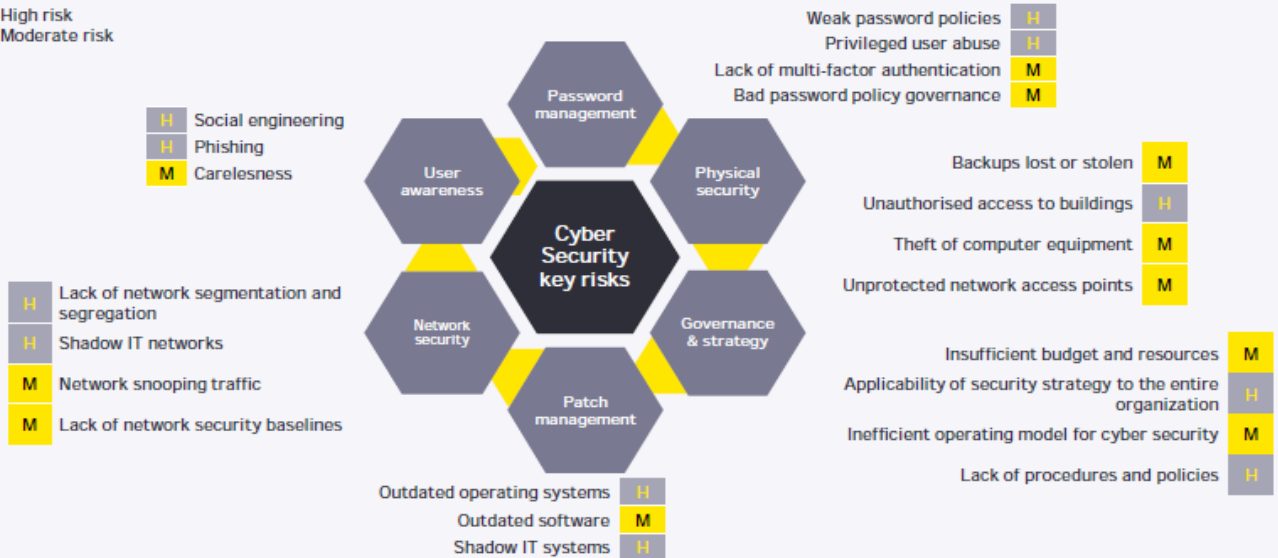


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Cyber Security > What are the common risks and how do you control them?

H High risk
M Moderate risk



“ Principle 2 (Secure configuration): One of the most common causes of data breaches is misconfigured controls, such as a database that's not properly secured or a software update that hasn't been installed. Highlighting the importance of configuration can ensure that you remove or disable unnecessary functionality from systems and address known vulnerabilities promptly.

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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 home. 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 documents 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 ensure 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

-  Connect to a Wi-Fi 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 OneDrive, Teams, Outlook, Office365, SAP, ...

Beware for e-mails and other reports regarding the Coronavirus or COVID-19 which anticipate to current events and take advantage of situations like this to obtain sensitive information or financial gain.

Be vigilant

-  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
By hovering over the link with your mouse, you will see the link of the web page it is referring to. Check whether the link refers to a page or a website that you know and trust.
-  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. Be vigilant regarding promotions or organizations that offer beautiful things for free or little money.
-  Be vigilant for compelling language or immediate actions
A phishing email is characterized by compelling language or the requirement for immediate action. Be extra vigilant if a promotion is only valid for a very limited time.



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Cyber Security Management

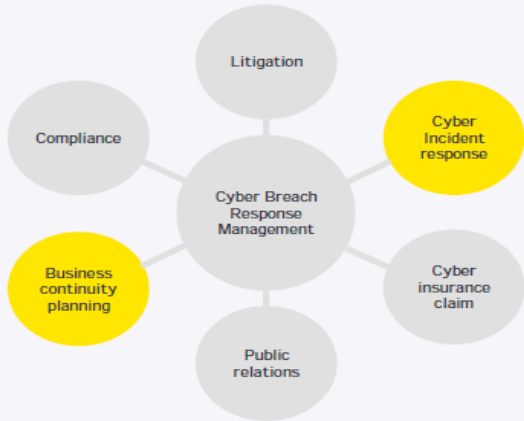
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Incident Management

An effective cyber breach response management strategy is no longer a luxury

The focus is no longer on prevention only: you can't stop attacks.
 It's now about readiness, response and recovery for the inevitable.



Cyber Incident Response

- ▶ Prepare how to handle a cyber incident
- ▶ Create a team and assign resources to manage cyber incidents
- ▶ Contain the breach and impact
- ▶ Eradicate and recover from the breach

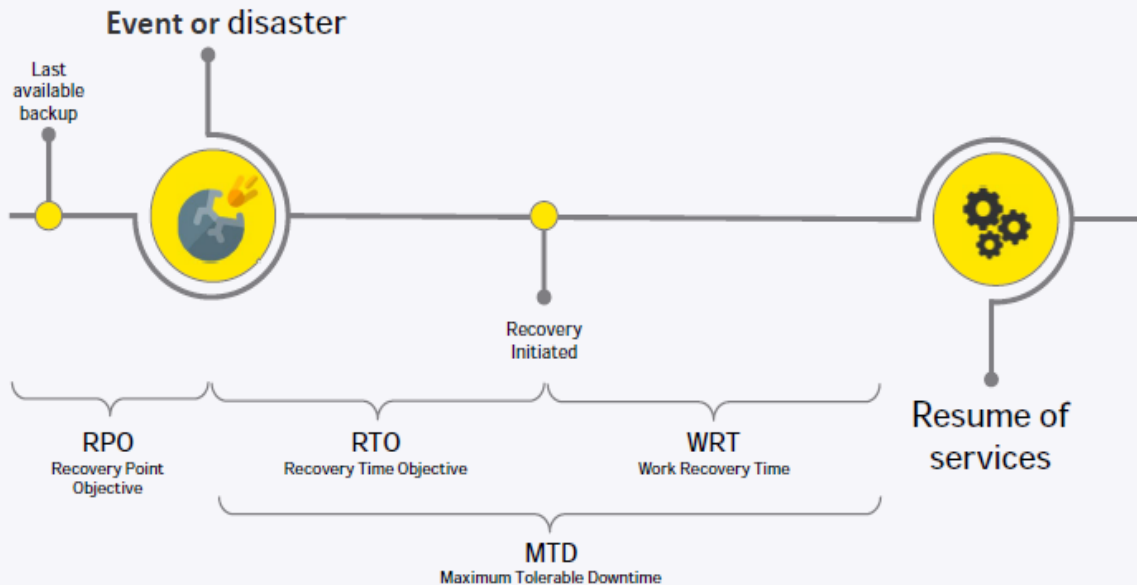
Business Continuity Planning

- ▶ Integrate cyberbreach response in business continuity plans
- ▶ Involve specific roles and (external) expertise
- ▶ Test cyberbreach response capability

Incident Management > the basics

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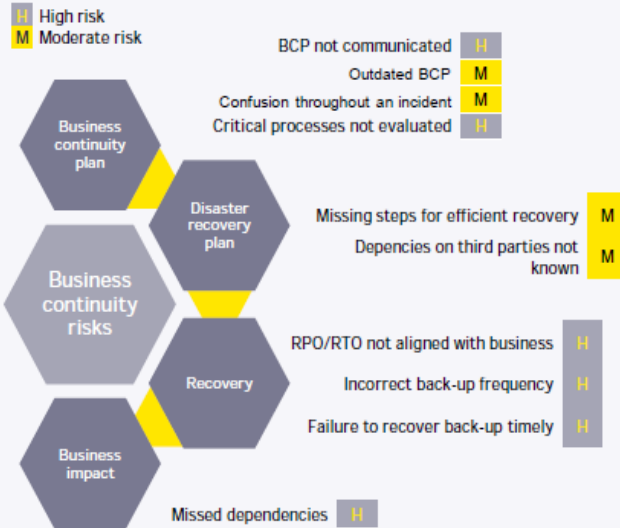
Principle 4 (Incident management): No matter how robust your defense measures are, you will experience a security incident at some point. Applicants must prepare for this by establishing policies and procedures to help mitigate the damage and get you back up and running as quickly as possible. Applicants must therefore implement systematic back-up procedures.



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



Incident Management > points of attention

- 1

Who takes what responsibility?
 Management?
 Process owner?
 ICT?
- 2

How prepared are the stakeholders?
 Is documentation available?
 Have plans been rehearsed? How and when?
 Lessons learned?
- 3

Align business & IT
 Are the expectations clearly aligned?
- 4

There are different types of incidents
 ICT (small to large), environmental, health, ...
- 5

Define the priority of business processes
 Payroll, HR, IT, Facilities, ...
- 6

Align with best-practice frameworks
 For example ISO 22301

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Data access | Identity and Access Management (IAM)

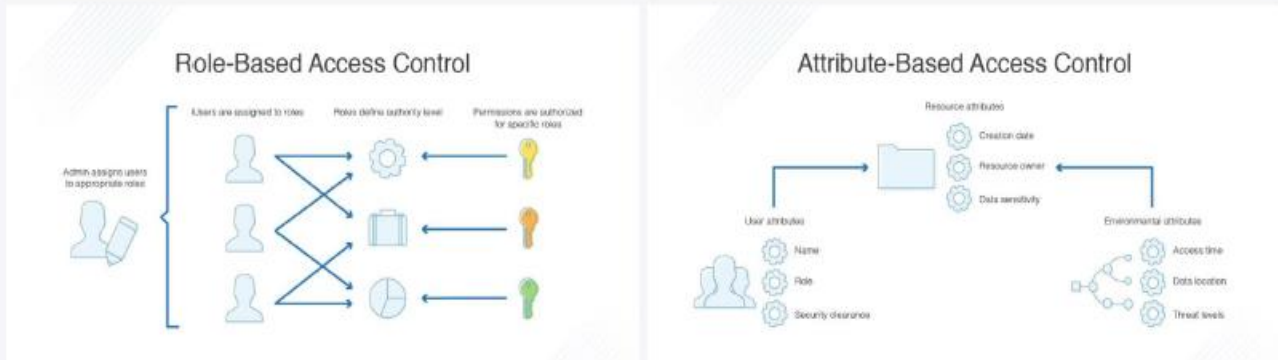
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Principle 6 (Managing user access): Applicants must create access controls to ensure that employees can only access information that's relevant to their job.

- | | | | |
|--|---|--|--|
|  | <p>IAM is a collective name for products, processes and policies used to manage identities and access rights.</p> |  | <p>First assess the current status of the IT environment. This step involves both analyzing the business requirements and assessing existing systems.</p> |
|  | <p>IAM systems are designed to perform three important tasks: identify, authenticate and authorise.</p> |  | <p>Relevant stakeholders should be involved in an IAM implementation. Hereby it is necessary to take the needs and opinions of the users into account.</p> |
|  | <p>An IAM policy enables you to identify violations more easily, remove inappropriate access rights and revoke access when necessary.</p> |  | <p>It is essential to follow an incremental approach and not try to implement the entire IAM solution in a single phase.</p> |
|  | <p>Limits internal threats, as employees can only access the systems they need to perform their specific tasks.</p> |  | <p>Enormous time and cost savings can be achieved by using the right IAM solution that can grow with the needs of the organization.</p> |

Data access | Access management

RABAC: Role-Centric Attribute-Based Access Control

RBAC: Role-Based Access Control	ABAC: Attribute-Based Access Control
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

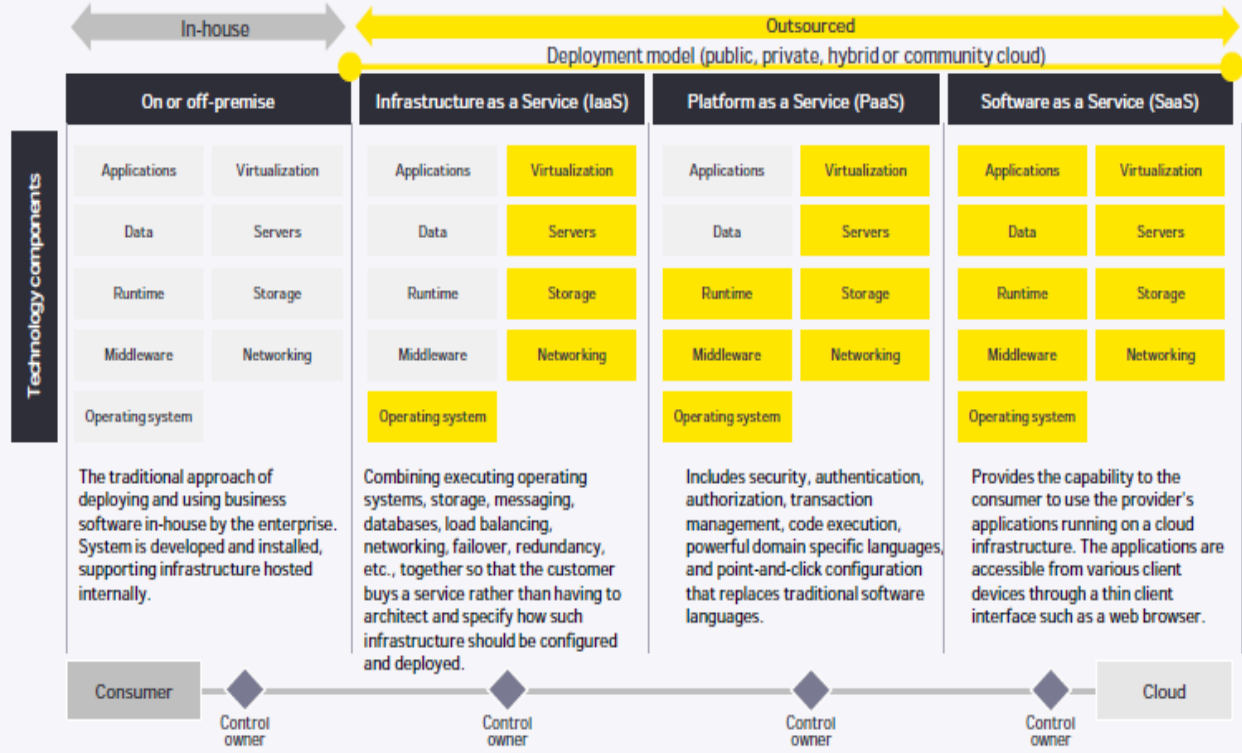


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Cloud computing > The type of cloud you choose matters: it shifts the controls you need

“ Principle 7 (Monitoring): System monitoring enables Applicants to detect successful or attempted attacks. This helps in two essential ways. First, Applicants will be able to identify incidents promptly and secondly initiate response efforts.



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Cloud computing > Main risks associated with cloud computing

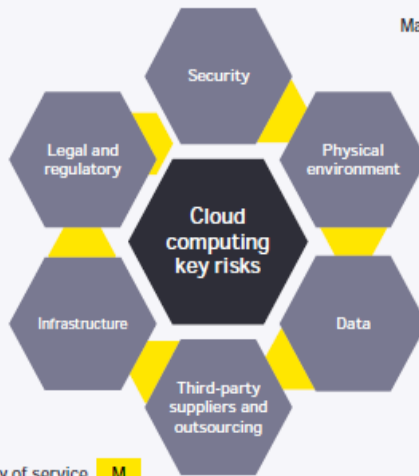
“ Principle 8 (Network security): The connections from your network(s) to the Internet contain vulnerabilities that could be exposed. Applicants should implement policies and technical measures to reduce the likelihood of being exploited.

H High risk
M Moderate risk

- H Risk from changes of jurisdiction
- H Data protection risks
- M Licensing risks
- H Compliance challenges

- M Network breaks
- H Network management
- M Modifying network traffic
- M Cloud hopping (between tenants)

- Poor quality of service M
- Metering or billing manipulation M
- Liability and assurance risks H
- Lack of certified resources M



- Privileged user access abuse H
- Management interface compromise M
- Service engine compromise M
- Social engineering attacks M

- Backups lost or stolen M
- Unauthorised access to premises M
- Theft of computer equipment M
- Natural disasters M

- Data leakage M
- Insecure or inefficient deletion of data M
- Loss of encryption keys M
- Data recovery H

Removable media

“ Principle 9 (Removable media controls): USB'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 parties 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.

1 Removable media gets lost, damaged or stolen

- Lost work
- Accessible by third parties



2 Spread of malicious code

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

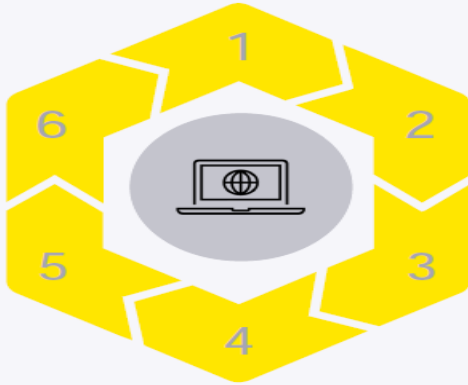


“ Principle 5 (Malware prevention): Malware is software that is specifically designed to disrupt, damage, or gain unauthorized access to a computer system. To mitigate these risks, Applicants should implement anti-malware software and policies designed to help prevent employees from falling victim.

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Removable media



How can we minimize the risks involved?

1. Take responsibility for your removable media and don't leave it unattended or exposed to extreme conditions.
2. Use a password encryption on every device.
3. Ensure a backup of data saved on a removable media.
4. Be cautious about removable media of unknown origin.
5. Disable 'autorun' on every device.
6. 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.

- Make this session a part of the onboarding process.



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

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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		Approaches of Phishing	
	Traditional Phishing A phishing email will be sent out to a large number of randomly selected employees		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
	Spear Phishing A phishing email will be sent out to a specific, targeted group of employees		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
	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		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

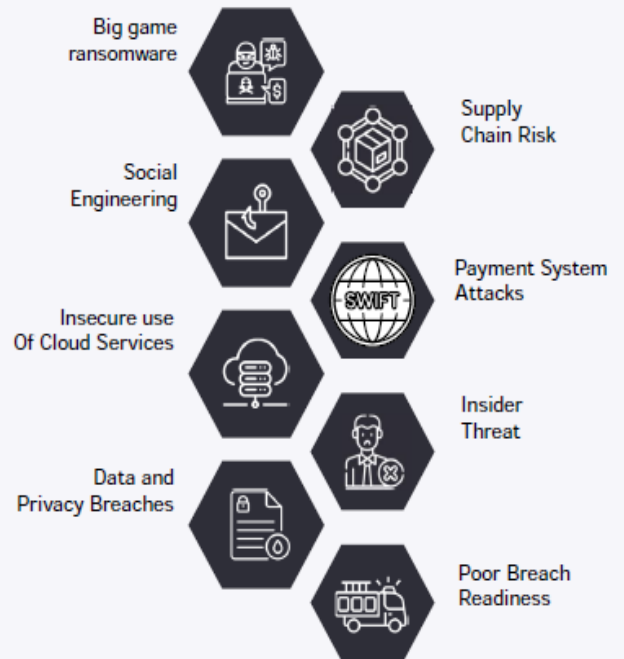
Cyber Security > Threat Landscape 2022

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-organised-crime-threat-assessment-iocta-2021>



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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.’

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