

INSIDER THREAT





INTRODUCTION

inside information concerning the organization's security practices, data and computer systems.

Types of Insider Threats A successful cyber attack can cause serious damage to your business. This can affect your bottom line, as well as your business' reputation

and consumer confidence. The impact of a security breach can be divided into five categories: financial losses, reputational damage, Loss of productivity, Business continuity problems and legal liability.

Insider Type	Motivations	Example	Risks
Malicious	Making money or avenging a slight	Terminated employee plants a logic bomb to execute malicious code	Theft of core company intellectual property. Disruption of operations. Damage to company reputation.
Negligent	lgnorance or carelessness	Careless employee posts corporate data in public cloud container	Theft of core company intellectual property. Disruption of operations. Damage to company reputation.
Compromised	Oblivious to the risk they pose	An attacker uses compromised credentials to exfiltrate corporate data	Access to sensitive company systems or assets. Theft of core company intellectual property.
Source: keepnetlabs.com			

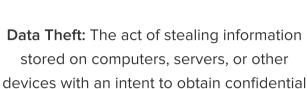
Insider Threat Activities and Risk Factors



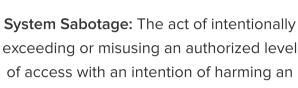
Fraud: Covers stealing of a wide range

of personal data, Including personal

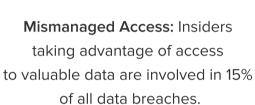
identification data, Financial Data, Billing Data etc.

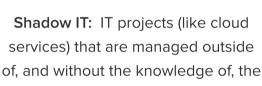


information.

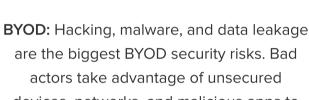


organization.





IT department.



devices, networks, and malicious apps to personal devices for company information.

the biggest factors that drive malicious insiders, followed by theft of intellectual property (44%). The ideal insider threat solution apprehends threats from all these

\$3.7

million

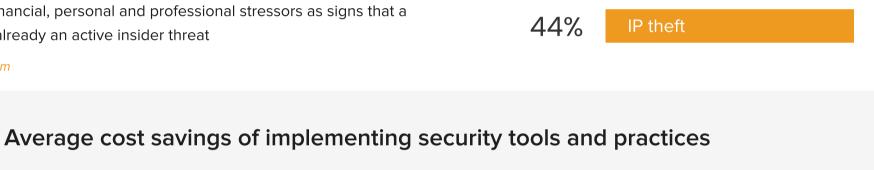
vetting procedures

Execute strict password and account management policies and practices.

Motivations for an Insider Attack

vectors, including financial, personal and professional stressors as signs that a person is at risk or already an active insider threat Source: keepnetlabs.com

The underlying motivations of insiders are fraud (55%) and monetary gain (49%)



Monetary gain

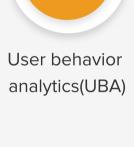
\$3.1 \$3 \$2.8

\$ 2.7

management (IRM)

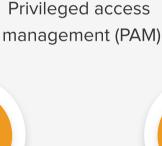
* Data provided by 2020 cost of Insider Threats: Global Report by the Ponemon Institute

The organizations must employ risk assessment in an enterprise-wide landscape of information security, ascertaining their critical assets, and



\$3.4

Employ risk assessments

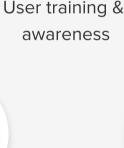


Strict third-party Incident response

establishing a risk management procedure for defending those assets from both insiders and outsiders.

attacks are difficult to detect ahead of time, still, practices can be realised for a speedy detection.

Possible Consequences of an Insider Attack



55%

49%

Fraud

Employee monitoring



Source: ekransystem

Best Practices in Preventing and Detecting an Insider Threat

& surveillance

\$2.6

Implement division of duties and least privilege. Separation of duties necessitates the implementation of least privilege: Authorizing people only for the resources they need to do their jobs.

Should your organization's computer accounts can be jeopardised, insider threats will have an occasion to bypass both manual and automated mechanisms, therefore adopt strict password and account management policies and practices.

Monitoring the employees' online status is important to discover and examine suspicious insider actions before major severe outcomes arise. Beware of the system administrators and privileged users.

Monitor your employee's online actions.

must be applied to those users. Actively shield against malicious code.

Privileged users like system administrators can array logic bombs or install other malicious code on the system or network. These types of

Logging and monitoring should be performed by a combination of system administrators and privileged users. Therefore, extra attention

Remote access policies and procedures must be created and executed very carefully since insiders tend to feel more confident and less restrained when they have little fear of examination by coworkers.

Apply layered defence against remote attacks.

Monitor and respond to suspicious behaviour. In addition to monitoring online actions, organizations should closely monitor other suspicious or disruptive behaviour by employees in the workplace.

When employment is terminated, it is important that the organization have a job termination procedure that disables all of the employee's access points to physical locations, networks, systems, applications, and data.

Execute secure backup and recovery methods.

Create an insider threat control checklist or documentation. Insider threat control checklist or documentation will help to secure your organization against vulnerabilities for an attack.

Computer and network access management after employee termination.



of customer's data

The cost of insider threats keeps rising These expenditures continue to rise year after year. Monitoring, investigation, escalation, incident response, containment,

Source: Ponemon Institute 2018 & 2020 Cost of Insider Threats: Global Reports

ex-post analysis, and remediation costs for a single insider threat



However, in most cases, it's possible to detect and stop insider attacks with the help of dedicated cybersecurity tools.

Conclusion

occurrence increased from \$513,000 to \$756,760.

Preventing insider attacks is becoming more expensive. The most typical cause of a data leak is user error.

Users with no privileges are just as harmful as those with privileges. Insider threat deterrence must take center stage in any cybersecurity strategy.

SKILLMINE CYBER SECURITY TEAM



The biggest threat will come from where you least expect

-Myrna Soto



Stay connected

It is important that organizations always think for the possibility of an attack or disruption and implement secure backup and recovery policies.

Security threats caused by insiders can happen to any company. And the consequences of insider-related breaches are often devastating.

The following are today's largest cybersecurity issues, according to the most recent insider threat cybersecurity statistics: