



Module Code & Module Title

CS5052NT Professional Issues, Ethics and Computer Law

Assessment Weightage & Type

60 % Individual Coursework

Year and Semester

2021-22 spring, Semester

Student Name: Yogesh Khatiwada

London met ID: 20048544

Assignment Submission Date: 2022-05-12

I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

Table of Contents:

| | |
|-------------------------------------|----|
| 1. Introduction: | 3 |
| 2. Background of the scandal: | 4 |
| 3. Legal issues: | 5 |
| 4. Social issues:..... | 7 |
| 5. Ethical issues: | 9 |
| 6. Professional issues:..... | 11 |
| 7. Conclusion:..... | 13 |
| 8. References | 14 |

1. Introduction:

A data breach occurs when sensitive, confidential, or otherwise protected information is accessed and/or disclosed without authorization. Personal information, such as credit card numbers, Social Security numbers, driver's license numbers, and healthcare records, as well as company information, customer lists, and source code, are all common data breach targets. A data breach occurs when someone who is not authorized to see it or steals personal data from the entity in responsibility of securing it (Katie Terrell Hanna, 2022).

Elasticsearch is a very powerful search engine. It is now widely used in a variety of IT firms. The Elastic firm invented Elasticsearch. Elasticsearch is currently a free and open source project. Elastic also owns the open source projects Logstash and Kibana at the same time. The ELK software stack is made up of these three projects. They form a powerful ecology when they work together. Simply defined, Logstash is in charge of data collection and processing (data enrichment, data conversion, and so on), while Kibana is in charge of data visualization, analysis, administration, supervision, and application. Elasticsearch is the foundation; it allows us to search and analyze data quickly (alibabacloud., 2022).

Data security entails implementing precise controls, rules, and processes to safeguard data against a variety of threats, such as unauthorized access, accidental loss, and destruction. Certain technologies in administrative and logistical procedures can be used to secure data. It can even include the physical aspect of security to limit sensitive data access, modification, or exposure. Most, if not all, businesses have data security controls in place, some of which are far more sophisticated than others. Implementing protections to prevent access to locations such as websites, computers, and any type of personal or company database are examples of these controls. As a result, data security remains one of the most critical concerns for any major organization.

In this coursework we've been assigned with a scenario of leaked bet details following the given scenario I've described the data breach occurred in ElasticSearch servers and related issues with it.

2. Background of the scandal:

ZDNet is an online news website that covers the latest IT trends, challenges, and events with news, analysis, and research.

An online gambling firm released information on more than 108 million wagers, including personal information, deposits, and withdrawals, according to ZDnet in January 2019. The data was collected from an ElasticSearch server that was left unprotected online.

ElasticSearch is a high-performance, portable search engine that corporations use to increase the data indexing and search capabilities of their web apps. There have been several Elasticsearch database breaches in the previous, but this is the biggest to date. After a U.K.-based security business mistakenly released its "Data breach Database," which stored vast amounts of information relating to security breaches from 2012 to 2019, more than five billion records were exposed. Elasticsearch servers have continued to leak millions of people's and organizations' protected personal information. The most recent server breach happened when Bithouse, Peekaboo's app developer, left the Elasticsearch database open, exposing more than 70 million log files and approximately 100 GB of data dating back to March 2019. Detailed device data, links to photographs and videos, and about 800,000 email addresses were among the material exposed. The user information includes real names, home addresses, phone numbers, email addresses, birth dates, site usernames, account balances, IP addresses, browser and OS characteristics, last login information, and a list of played games, according to Justin Paine, the security researcher who discovered the server. According to ZDnet, it is unknown how long the server was left open, how many people were affected, if anyone else accessed the leaking server, or if consumers were told that their personal information was exposed (Cimpanu, 2022).

3. Legal issues:

Examine the topic of legal issues, which are legal matters that must be decided by a court. In contrast to ethical and moral failings, legal issues are founded on written standards, whereas ethical and moral issues are based on subjective conceptions of right and wrong. However, it must be noted that legal concerns are fundamentally linked to ethics and morals, which can lead to heated public debate owing to conflicting perspectives on a legal issue's morality (USLEGAL, 2022).

The listed of legal issues related to the scandal are given below:

1. FEDERAL NOTIFICATION LAWS:

As per the law Federal Notification, the government has passed a general national wide data breach law and bill titled the data security and Breach Notification Act, in which companies should report breaches within 30 days but in online casino group leaked information scenario, online casino group failed to report breaches. Because of data breaches a lot of sensitive information, such as real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, IP addresses, browser and OS details, last login information and a list of played games has been affect the user. That's why according to the law, for the penalty, if an individual "intentionally and willfully" conceals a data breach, they could face up to five years in jail or it can also be settlements. Settlements can be harsh depending on the judge or jury. For large breaches, settlement over \$100 million are not out of the question, especially when dealing with healthcare information. Another cost of a breach includes having to pay the plaintiff's legal bills, which can be extremely high (IRON MOUNTAIN, 2022).

2. Privacy Law:

The right to privacy refers to a person's right to be left alone, free of unwelcome publicity, and to live as they wish without interference from others in areas that are not necessarily public. A person's right to be free from invasion of privacy is actionable. The unwarranted appropriation or exploitation of one's personality, the publicizing of one's private affairs with

which the public has no legitimate interest, or the wrongful intrusion into one's private activities in such a way as to outrage or cause mental suffering, shame, or humiliation to a person of ordinary sensibilities are all actionable invasions of one's right to privacy. Real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, last login information, and a list of played games have all been exposed in this case. In actions for privacy right infringement, truth is not a defense and it is not necessary to allege or prove special damages. When damages are insufficient to compensate for an injury, a lawsuit can be launched for damages or an injunction. In rare situations, a single action for damages and an injunction is permitted (Law Office of STIMMEL, STIMMEL & ROESER, 2022).

3. Customer Service:

In online casino group, customer provide all their personal details like real name, address, bank details etc. to the online casino group of the company but after the data leaked from an ElasticSearch server that was left exposed online without a password. After the data breach the confidential information of the customer were all stolen so the threat was created customer safety was on the question. The customer service was failed to provide the safety service. On the topic of the customer service after the data breach all the personal information was leaked. Given that neither the above-mentioned sites nor their parent company have responded to our request for comment, it is unclear how long the server was exposed online, how many users were affected, whether anyone other than the security researcher accessed the leaky server, and whether customers will ever be notified that their personal information was left exposed on the internet in plain view.

4. Social issues:

Any condition or conduct that has influences for a large number of people and is widely recognized as a condition or behavior that needs to be addressed is referred to as a social issue. In this type of issue, court decision is not required but concern with individual well-being, moral values, cultures and rights (study.com, 2022).

The listed of social issues related to the scandal are given below:

1. The long-term consequences: Loss of trust and diminished reputation:

Following the data leak from an online casino group, that group's reputation can no longer be built and maintained on a consistent basis. Customers' sensitive information, such as real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, IP addresses, browser and OS details, last login information, and a list of played games, has been leaked in the online casino group, which is why trust has been lost. One compromising incident, such as a data leak, can, nevertheless, damage even the finest of reputations. According to the PwC survey, 85 percent of consumers will not shop at a company if they have security worries. Because of that customer will not again play the game on that online casino and result after the group for long term consequences. Online casino group, on the other hand, may and do recover from the effects of a data breach. However, the loss of confidence and reputation that data breaches cause may be immediately reflected in bottom line (FIS, 2022).

2. Loss of Sensitive Data:

As a result of a data breach a lot of sensitive personal data has been lost because of its consequences can be devastating. Personal data is any information that can be used to directly or indirectly identify an individual. User data included a lot of sensitive information, such as real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, IP addresses, browser and OS details, last login information and a list of played games were hacked in online casino group which result to loss of sensitive Data. The fallout from breaches that expose this data can be disastrous and exceed any financial and reputational damage (MetaCompliance, 2020).

3. Legal Action:

Online casino group are legally required to demonstrate that they have taken all necessary precautions to secure personal data under data protection legislation. After the data leak in online casino group, customer can initiate legal action to claim compensation if their data is compromised, whether intentionally or not. Since, the very useful or more sensitive data of a user like real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, IP addresses and other information were leaked so, legal action can claim by the user (MetaCompliance, 2020).

5. Ethical issues:

Ethics refers to a set of written and unwritten principles that control our expectations of ourselves and others' actions. The study of what is morally good and bad, as well as what is morally correct and wrong. The phrase can also be used to describe any set of moral beliefs or principles (skillsyouneed, 2022).

Deontological theories:

In deontological ethics, an action is morally good because of some property of the action itself, rather than because the action's product is good. In this online casino group leaked information because of not high security. It happen because of the weakness of an online casino group because they doesn't maintain secure server to store the personal informational of the player. They lies about the security of that online casino system. By known about the security system also the group doesn't maintain and kept the data secure. That's why an online casino group kept data without password protection. So, because of that reason the scenario doesn't obey the deontological theories.

Utilitarianism:

Utilitarianism has significant consequences for how we should approach ethical living. Because utilitarianism values everyone's happiness equally, it indicates that we should make helping others a priority in our lives. To a utilitarian, the ethically correct choice is the one that benefits the greatest number of people (utilitarianism, 2022).

1. Act utilitarianism:

Act utilitarianism is a type of utilitarianism in which the choose action that produces the greatest good for the greatest number and it could be not good decision for other also. It will not think about future.

2. Rule utilitarianism:

Rule utilitarianism is a type of utilitarianism in which the choose action that produces the greatest good for the greatest number and it will always be a good decision. It will think about future.

In this case of online casino it doesn't obey the utilitarianism because in this case the action taken was not good decision for greatest number. All the player sensitives information like included a lot of such as real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, IP addresses, browser and OS details, last login information and a list of played games are leaked and affect the all the user. Because of not good security a high number of user have to face a problem of their privacy. That's why it doesn't obey the Act and Rule utilitarianism both because doesn't give welfare for a lot of people and doesn't take a good decision also. It affect the future also (utilitarianism, 2022).

6. Professional issues:

Professional issues is defined as the issues that arises in professionalism and professional bodies at the time of professional development.

1. Code of Conduct Violations:

A code of ethics is another name for a code of behavior. The code of conduct outlines a firm's standards to help employees understand what is expected of them while working for the company; it also establishes norms and guidelines for moral, legal, and professional behavior. Every organization should have a documented code of conduct that specifies not only the regulations, but also the consequences of breaking those policies (CHRON, 2022).

2. Lack of skillful Resources:

Individuals and teams who accept personal and collective responsibility for gaining and sustaining professional competence are essential to high-quality computing. Technical knowledge and understanding of the social context in which their work may be used are the foundations of professional competence. Communication, reflective analysis, and the ability to recognize and navigate ethical problems are all required for professional competence. Skills improvement should be a continuous process then only the activities like data leakage couldn't happen. Because of lack of skillful Resources the data leakage the sensitive information from online casino group. These activities should be encouraged and facilitated by making high skillful Resources.

3. Lack of IT Export:

Because of Lack of IT Export the security of the system of the date or information is leaked. If there were an IT Export with skillful then the data will be secure because he/she encrypted the data and make the high secure the sites so, that no any unauthorized can hacked or lacked the information of the payer of casino. That why it occur due to lack of IT Export.

4. Intellectual property violated:

Typically, the magnitude and severity of a breach is determined by the number of personally identifiable information (PII) records disclosed. These statistics are always made public, and such numbers are easily compared between events, thanks to well-established regulations guaranteeing transparency to consumers and people when their information is lost by an entity. However, there's a whole other realm of data breaches that don't get nearly as much attention in the media but are often significantly more damaging to group than PII breaches (investopedia, 2022).

7. Conclusion:

The case is all about the data leakage which released information of the player who play online gambling. There data or sensitive information like real name, address, mobile number, IP address and other information is leakage due to weak of security in the system.

Since, all the information of the user are leakage from the online casino group so, different kind of issues arise like social, legal, professional and ethical issues. In social issue, the online cosine group trust and believe lose by the user because after one time their data leakage they will not truth that same sites and they know the weak security also. In Legal issue, FEDERAL NOTIFICATION LAWS, Privacy law, Customer services happen and because of this law the get punishment as per the law and affect the user. In professional issues, different issues like violence on code of conduct, lack of skillful resource happen which effect the casino group of that weakness. Since, in this case privacy affect and many people affect so, it doesn't obey the utilitarianism also.

In my opinion, this type of issues happen and effect the privacy of the user by leakage the sensitive information such as real names, home addresses, phone numbers, email addresses, birthdates, site usernames, account balances, IP addresses, browser and OS details, last login information and a list of played games. So, this type of problem could be solved if the group of casino already maintain the security by encrypting the useful information in high secure form, and maintain highly skillful manpower to maintain and to secure the system. If they have done this type of activities for maintain the group in a well security than this type of incident could not arises.

8. References

alibabacloud., 2022. *Introduction to Elasticsearch*. [Online]

Available at: <https://www.alibabacloud.com/knowledge/developer/introduction-to-elasticsearch>

[Accessed 29 4 2022].

CHRON, 2022. *What Happens to an Employee if He Violated the Code of Conduct?*.

[Online]

Available at: <https://smallbusiness.chron.com/happens-employee-violated-code-conduct-16118.html>

[Accessed 08 05 2022].

Cimpanu, C., 2022. *Online casino group leaks information on 108 million bets, including user details*. [Online]

Available at: <https://www.zdnet.com/article/online-casino-group-leaks-information-on-108-million-bets-including-user-details/>

[Accessed 07 05 2022].

FIS, 2022. *How the consequences of a data breach threaten small businesses*. [Online]

Available at: <https://www.fisglobal.com/en/insights/merchant-solutions-worldpay/article/how-the-consequences-of-a-data-breach-threaten-small-businesses>

[Accessed 7 05 2022].

investopedia, 2022. *Intellectual Property*. [Online]

Available at: <https://www.investopedia.com/terms/i/intellectualproperty.asp>

[Accessed 08 05 2022].

IRON MOUNTAIN, 2022. *THE LEGAL RAMIFICATIONS OF A DATA BREACH*. [Online]

Available at: <https://www.ironmountain.com/resources/general-articles/t/the-legal-ramifications-of-a-data-breach#:~:text=As%20you%20can%20imagine%2C%20every,or%20integrity%20of%20personal%20information>

[Accessed 02 05 2022].

Katie Terrell Hanna, K. F. K. B., 2022. *data breach*. [Online]

Available at: <https://www.techtarget.com/searchsecurity/definition/data-breach>

[Accessed 27 4 2022].

Law Office of STIMMEL, STIMMEL & ROESER, 2022. *The Legal Right to Privacy*.

[Online]

Available at: <https://www.stimmel-law.com/en/articles/legal-right-privacy>

[Accessed 05 05 2022].

MetaCompliance, 2020. *5 Damaging Consequences Of A Data Breach*. [Online]

Available at: <https://www.metacompliance.com/blog/5-damaging-consequences-of-a-data-breach/>

[Accessed 6 05 2022].

skillsyouneed, 2022. *Ethical Issues in Research*. [Online]

Available at: <https://www.skillsyouneed.com/learn/research-ethics.html>

[Accessed 06 05 2022].

study.com, 2022. *Social Issues: Definition & Examples*. [Online]

Available at: <https://study.com/academy/lesson/social-issues-definition-examples.html>

[Accessed 6 05 2022].

USLEGAL, 2022. *Legal Issue Law and Legal Definition*. [Online]

Available at: <https://definitions.uslegal.com/l/legal-issue/>

[Accessed 29 4 2022].

utilitarianism, 2022. *What Is Utilitarianism?*. [Online]

Available at: <https://www.utilitarianism.net/>

[Accessed 07 05 2022].