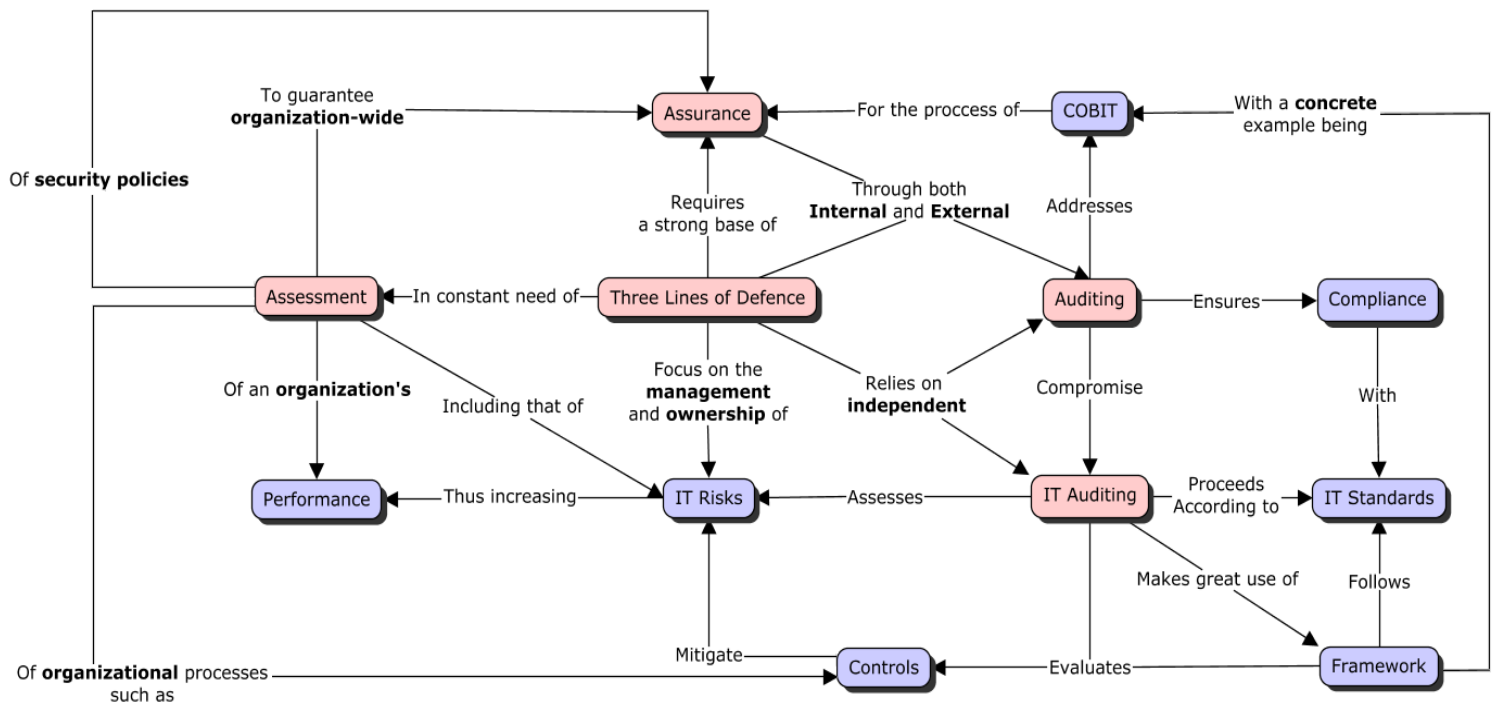


## 1 – Conceptual analysis



Concept	Definition
Assessment	Process intended on <b>identifying</b> the <b>strengths</b> and <b>weaknesses</b> as well as <b>suggesting methods</b> to boost <b>efficiency</b> , <b>productivity</b> , and <b>profitability</b> of an <b>organization's processes</b> and <b>practices</b> .
Assurance	Practice of <b>assuring information</b> and <b>managing risks</b> related to the use of <b>information</b> and the <b>systems</b> and <b>processes</b> used for those <b>purposes</b> . This process also includes the <b>protection</b> of data <b>confidentiality</b> , <b>integrity</b> and <b>availability</b> .
Auditing	<b>Review</b> or <b>assessment</b> of <b>processes</b> defining an official <b>inspection</b> of <b>organizational accounts</b> that might also be done in the context of <b>Information Technologies</b> , also including <b>IT Audits</b> .
COBIT	<b>Framework</b> for <b>information technology management</b> and <b>IT governance</b> that provides a set of <b>controls</b> to be <b>implemented</b> over <b>information technology</b> organizing them around a <b>framework</b> of <b>IT-related processes</b> .
Controls	Procedures <b>assuring</b> that the <b>Information Technology</b> of an <b>organization</b> is using operates as <b>intended</b> .
Compliance	<b>Goal</b> that <b>organizations</b> aspire to achieve through efforts that ensure they <b>comply</b> with relevant <b>Information Security laws</b> , <b>policies</b> , and <b>regulations</b> .
Framework	Set of <b>definitions</b> providing information on how an <b>IT Audit</b> should be <b>planned</b> and <b>conducted</b> .
IT Auditing	Examination of the <b>management controls</b> within an <b>Information Technology Infrastructure</b> and the <b>review</b> and <b>evaluation</b> of such <b>information systems</b> .
IT Standards	<b>Guidelines</b> followed by organizations in order to <b>increase their performance</b> in the context of their future goals.
IT Risks	Any <b>risk</b> related to <b>information</b> , <b>information processing</b> or <b>information technology</b> and how a specific <b>threat</b> might <b>exploit</b> such <b>vulnerabilities</b> .
Performance	The offer of <b>services</b> , levels of service and <b>service quality</b> required to meet current and future <b>business</b> and <b>security requirements</b> .
Three Lines of Defence	<b>Activities</b> defined in <b>enterprise risk management</b> across the three different <b>lines of defense</b> and possessing <b>separate responsibilities</b> that <b>enable effective risk and management</b> against any kind <b>threat</b> .

## 2 – Description of the analysis

With this concept map I plan on delving deeper in the analysis of the following topics:

- Firstly, an organization to successfully implement the **Three Lines of Defence** as defined by **enterprise risk management** must possess solid **assurance practices** to **effectively** implement **controls** and deal with **risk-related** activities such as those of **management** and **ownership**. Furthermore, I intend on showing that these **lines of defence** also rely on **assessment** processes such **audits** to **evaluate** the **controls** implemented by the **organization** and successfully help **mitigate risks**. The goal of **implementing** these **practices** is that of **assuring** a successful **first line** of **defence** through the usage of **risk ownership** and **management** procedures.
- Likewise, I intend on showing that through a successful **implementation** of a **standards-following framework** such as **COBIT**, one can successfully **evaluate** the applied **controls** in effect to deal with **organizational risks** and effectively **formulate policies** to provide **assurance mechanisms** and **oversight** a company's **performance**. The practice of implementing a **risk framework** which **complies** with **international information technology standards** provides a strong **second line** of **defence** in assurance procedures.
- **Audits** are a process that is done by **independent bodies** to assess **risks** and **control** practices. These bodies might be **internal** or **external** and intend on ensuring **compliance** of **IT processes**, implemented by an **IT Framework**, with **International IT standards**. This **assessment procedure** carried through **audits** of organizational **processes** and **systems** defines the **third line** of **defence** regarding **assurance** and **risk management** for modern-day **companies**.
- Additionally, I proceed on showing that organizations that **implement** these **lines** of **defence** through **assessment** and **assurance** processes intend on **reducing** and **mitigating** risks thus increasing their **performance** and aiding with the **achievement** of company-wide **objectives** such as the meeting of **security** and **information technology quality requirements**.

Finally, one can observe the point that links all these topics are the **Three Lines of Defence**. We can observe that this concept is **deeply interlinked** with those of **assurance** and **assessment** thus contributing with **risk reduction** and **mitigation** procedures. These practices to **solidify** an **organization's defence lines** can ultimately **employ auditing** procedures, thus **assuring compliance** with the **IT standards** set by the **company** and **ensuring** a proper **reduction** and **mitigation** of risks.

## 3 – Research

An **auditing process** is an **assessment procedure** that should be carried by an **independent body** in order to **assess** the **business** and **information technology practices** being employed, thus properly **evaluating** the **controls** that ensure **proper risk management** strategies. Nonetheless, a **successful audit** of an **organization's IT systems** ultimately has the scope of helping the **company** by **assessing** its **practices** and thriving against its competitors.

As we have observed regarding **Enron**, one of the largest **energy companies** in the **United States**, and **Arthur Andersen**, Enron's **auditing** and **accounting** partners, and one of the **biggest auditing firms** in the country, the **failure** of such **audits**, eventually might lead to a **company's downfall**, as the **ineffective evaluation** of **risk-management procedures** being applied, not only contributed to the **company filing** for **bankruptcy**, but to one of **biggest auditing failures** in American history.

Through the **concealment** of **business process information** and through a **deceptive stance** Enron's Chief Financial Officer took regarding **high-risk accounting practices**, executives and **accounting personnel** were able to keep secret the usage of **accounting loopholes** and **poor financial reporting**, that had **hidden billions** of **dollars** in **debt** from failed deals and projects, to Enron's board of directors and to their **auditing** and **accounting** partners.

With this being stated, **auditors** need to be **meticulous** and include in their **evaluating scope** the **assessment** of every **IT system** and process that is **aligned** with and **automates** every **business applications** and **information security** procedure. With this prudent scope of analysis, one can **successfully evaluate** the implemented **controls mechanisms** and aid **risk management practices** thus increasing an **organization's performance**.

## 4 – Topic for discussion

I would like to inquire which **assessment** and **auditing procedures** suit modern-day **large-scale technology companies** that **employ** and **commercially succeed** with products that rely on trendy-computing topics such as those of **blockchain**, **big data analytics** and **cloud computing**.