Cloud forensics revision

**3.2.4 How Cloud computing is affecting their investigations?**

Lack of passwords on cloud servers particularly during the execution of search warrants has hindered investigations.

**3.2.3 What are the main Digital Forensic tools used by Irish Law Enforcement Agencies?**

All agencies have licensed copies of Guidance Software’s Encase Forensic software and Access Data’s Forensic Tool kit, and these tools are primary tools used during investigations.

**Cloud service examples**

Drop box, salesforce

**Analysis**

Using traditional forensic methods can lead to a loss of information

Extracting all electronic data during the execution of a search warrant can cause a number of issues.

**4.2.1 Pre-search tasks**

**The Pre-search stage has five tasks which must be completed prior to the execution of search:**

(1) Identifying and gathering intelligence on suspect targets.

(2) Digital forensic tool testing.

(3) Preparation of storage media preparation.

(4) Development of an on-site infrastructural questionnaire.

(5) Briefing search teams prior to the execution of a search warrant.

**4.2.2 Search Stage the Search Stage is focused on the execution of the search warrant and the**

**The stage comprises of four phases.**

(1) Secure the scene.

(2) Identify IT personnel and complete the on-site infrastructural questionnaire.

(3) Prioritisation of targets and devices.

(4) RAM & Internet acquisition – Review – Identified Cloud and local acquisition.

**research challenges including**

“Discovery of computation structure,

” “attribution of data,”

“Stability of evidence,”

“Presentation and visualisation of evidence”