**Demonstration Guidelines**

1. **Initial Content of Admin-Cloud:-**
   1. DataAudit (main s/w)
   2. Configuration.txt (configuration file)
   3. SetupTagGen.sh (Script to generate key materials and metadata)
2. **Initial Content of Auditor (Alice):-**
   1. DataAudit (main s/w)
   2. Configuration.txt (configuration file)
   3. Success\_Msg.ogg (Success message audio file)
   4. Failure\_Msg.ogg (Failure message audio file)
   5. Alice.sh (The main Auditor Script)
3. **Initial Content of Auditee / Storage (Bob):-**
   1. Data\_File
   2. Backup of the Data\_file
   3. DataAudit (main s/w)
   4. Configuration.txt (configuration file)
   5. Attack (attack s/w - specify attack proportion & blocksize)
   6. Bob.sh (The main Storage Script)

Note: You may required crypto++ library and socat installation, instructions are given below. Then Do permit all executable file through “chmod +x [filename] in all the systems”.

i.e. for Admin-Cloud : **chmod +x DataAudit SetupTagGen.sh**

1. **Step-1:** Make sure that the path and filename of the Data file is properly mentioned in the ‘SetupTagGen.sh’ script
2. **Step-2:** Run the ‘SetupTagGen.sh’ script in Admin-Cloud
3. **Step-3:** copy the params file (‘Params.bin’) from Admin-Cloud to both Alice and Bob
4. **Step-4:** copy only the metadata file (‘metaData.bin’) from Admin-Cloud to Alice only
5. **Step-5:** correct the Auditor’s IP address and Port number inside ‘Bob.sh’
6. **Step-6:** correct the Auditee’s IP addressa and Port number inside ‘Alice.sh’
7. **Step-7:** Upload Bob Folder in server(Bob) machine “[scp -r Storage\ username@Bob-IP:]”
8. **Step-8:** Open three terminals:-
   1. One inside the Auditor (Alice)
   2. Two inside the Auditee (Bob) - may also login remotely using ssh
9. **Step-9:** Run ./Bob.sh inside one of the terminals in Bob
10. **Step-10:** Run ./Alice.sh inside Alice
11. **Step-11:** Observe for some time - verification must be successful in all instances
12. **Step-12:** Now Run the Attack program inside the other terminal in Bob
    1. (./Attack <filename> <attack\_proportion> <blocksize>)
    2. blocksize = 2000;
    3. attack\_proportion = 0.01 (may reduce also)
13. **Step-13:** Attack should be immediately detected by Alice

**Crypto++ Installation:**

sudo apt-cache pkgnames | grep -i crypto++

sudo apt-get install libcrypto++8 libcrypto++8-dbg libcrypto++-dev

Note: it may 6 or 7 also according to system configuration.

**Socat Installation:**

sudo apt-get install socat