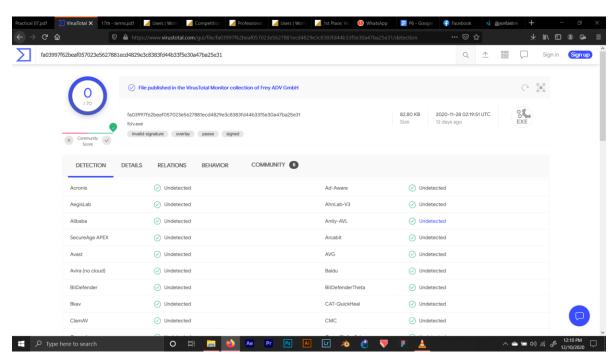
IS2109 Information Systems Security- IS 2109 Practical 7 Secure Web Browsing

1.



Virus Total will check for the virus in the uploaded file and detect the virus since it's showing undetected. We can possibly consider that there is no virus in the file uploaded.

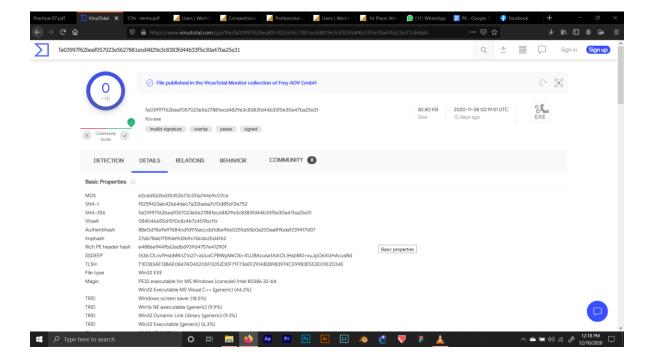
To check the integrity of the file we have referred to the details section. To check integrity, we need to hash the file. Initially send has to hash the file and receiver has to hash it using the same hashing algorithm. If the hash value obtained by both sender and receiver is the same by using the same algorithm we can deduct that the file's integrity is preserved.

Virus Total is using different hashing algorithms like MD5, SHA-1, SHA-256 etc here in the practical sheet we have given with MD5 values.

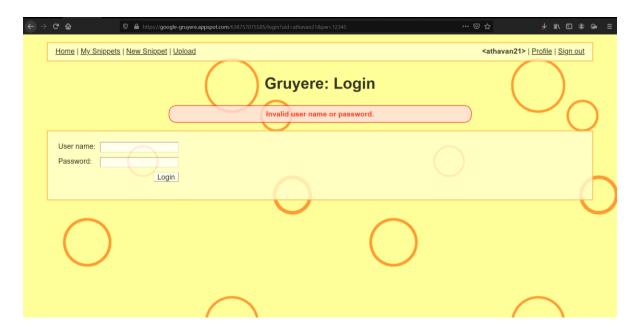
MD5 in practical sheet: e2c6d562bd35352b73c00a744e9c07c6

MD5 in Virus Total: e2c6d562bd35352b73c00a744e9c07c6

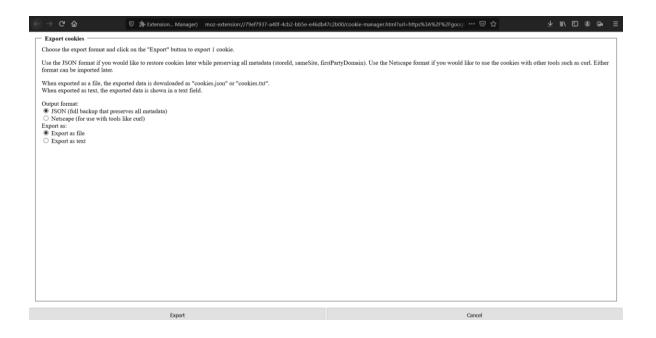
Both the values are same so we can conclude that integrity of the file is preserved.

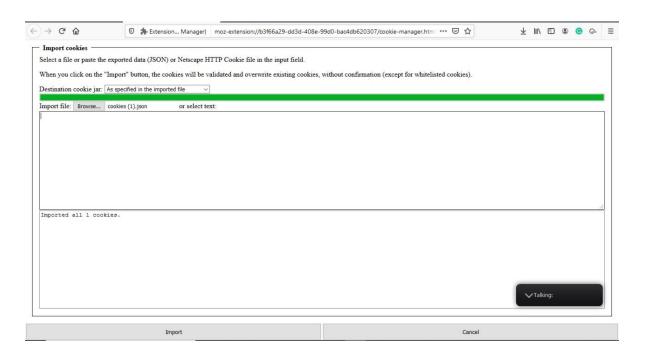


2.



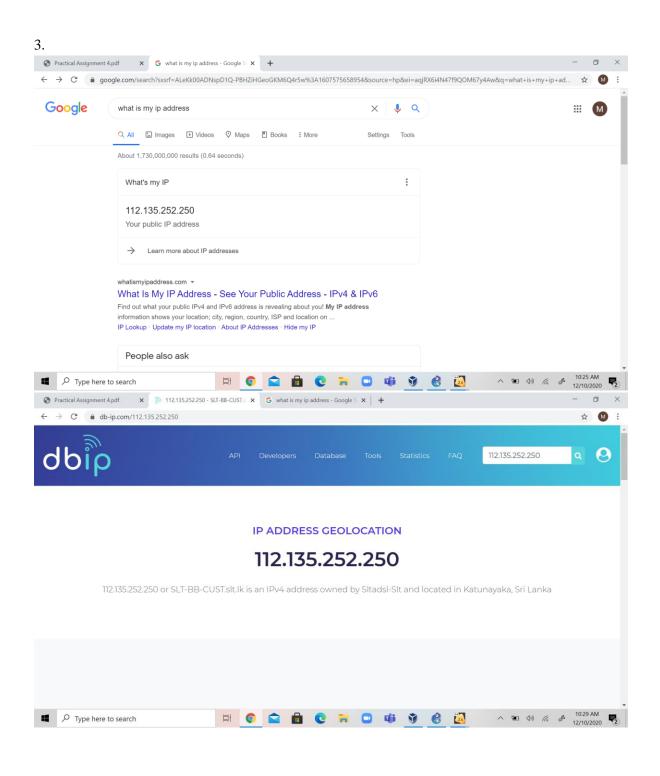


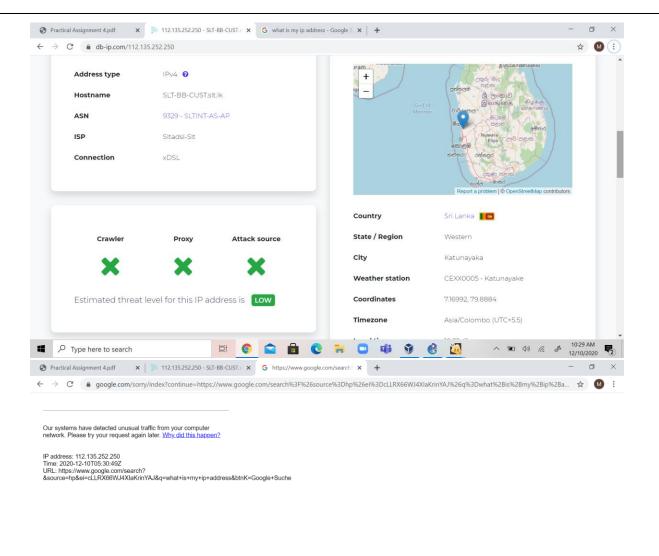






- Security is Questioned here Privacy is major threat
- No
- Computer Crimes Act, No 24 of 2007





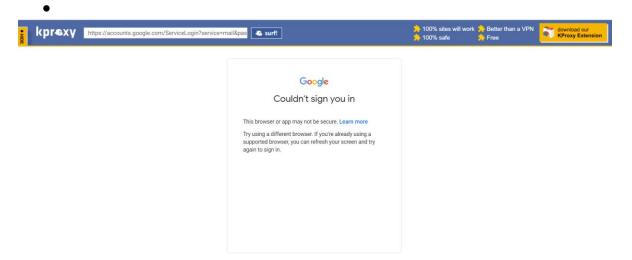


Advantages of using a proxy server

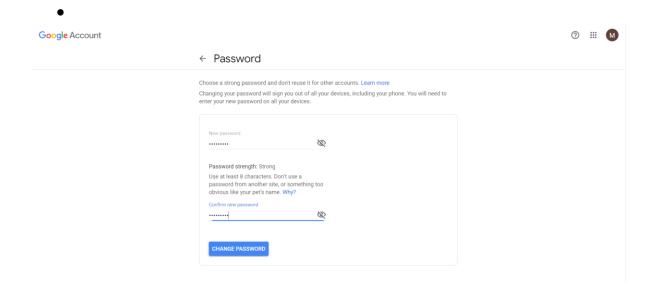
- Your IP Address Is Hidden
- You Can Access Geo-Blocked or RestrictedContent
- You Can Access Geo-Blocked or Restricted Content
- Malicious Websites Can Be Filtered Out

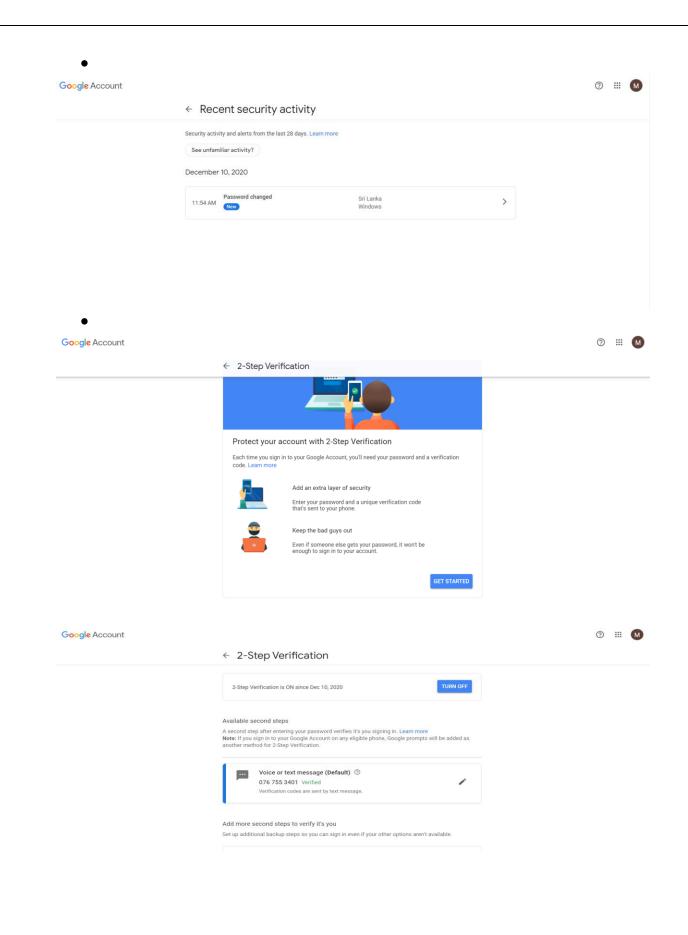
4.

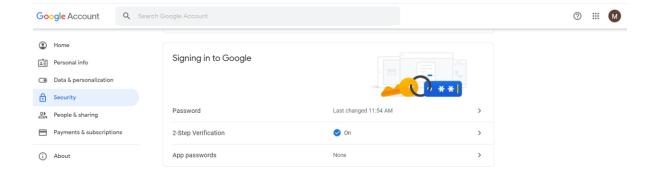
 Using a One Time Password (two-factor) only protects the authentication phase keep a separate gmail "dropbox" account for this purpose.



Proxy servers anonymize their users by changing their IP address, so that if a hacker wants to get access to a specific device on a network, it will be far more difficult to locate.if that data contains your email account name and password in unencrypted text, you bet a malicious proxy could be collecting that information.







•

Change your passwordOn your Android phone or tablet, open your device's Settings app and then Google and then Manage your Google Account.At the top, tap Security.

Under "Signing in to Google," tap Password. You might need to sign in.

Enter your new password, then tap Change Password.

Reset your password

Follow the steps to recover your account. You'll be asked some questions to confirm it's your account and an email will be sent to you. If you don't get an email:

Check your Spam or Bulk Mail folders.

Add noreply@google.com to your address book.

To request another email, follow the steps to recover your account.

Check all email addresses you might've used to sign up or sign in to your account.

Choose a password that you haven't already used with this account.

8.

Passwords

A password is a shared secret known by the user and presented to the server to authenticate the user.

Hard Tokens

The device may be in the form of a smart card, or it may be embedded in an easily-carried object such as a key fob or USB drive.

Soft Tokens

Users are less likely to forget their phones at home than lose a single-use hardware token. When they do lose a phone, users are more likely to report the loss, and the soft token can be disabled. Soft tokens are less expensive and easier to distribute than hardware tokens, which need to be shipped.

Biometric Authentication

Biometric authentication methods include retina, iris, fingerprint and finger vein scans, facial and voice recognition, and hand or even earlobe geometry. The latest phones are

adding hardware support for biometrics, such as Touch ID on the iPhone. Biometric factors may demand an explicit operation by the user

Contextual Authentication

Typically, a user's current context is compared to previously established context

Device Identification

device identification establishes a fingerprint that's somewhat unique to that device.

 Many Gmail users receive tens or hundreds of mails per day. The Priority Inbox attempts to alleviate

such information overload by learning a per-user statistical model of importance, and ranking mail

by how likely the user is to act on that mail.

References

 $\frac{https://support.google.com/accounts/answer/7299973?hl=en}{https://support.google.com/accounts/answer/41078?co=GENIE.Platform%3DAndroid&hl=e}{\underline{n}}$

Group 07

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