21BDS0340

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Digital Assignment 1

Question 1

The best way to arrange a document share between the two members of a different company is to send the document over a secure network between the two companies or a trusted third party application.

A secure network can be set up in a way that there is only 2 common servers, and they forward directly from source to destination. There will be no other communications through this channel, and everything is classified.

The other option is to use a document sharing service like Gmail, Dropbox or Google Drive. In this way we can guarantee the access to the document is limited.

Trojan

Software that disguises itself as legitimate and tricks the user into executing it. It usually spreads through email attachments and fake websites. It is designed to create a backdoor into an infected system.

Examples: Stuxnet, Zeus, Melissa Back orifice, Zeus, Subseven

Virus

This is a self replicating program that attaches itself to legitimate files. They can cause various damages like file deletion, system crashes or unauthorised access.

Examples: ILOVEYOU, Melissa, Sasser

Worm

Standalone self replicating program that spreads like a virus. They exploit system vulnerabilities. Very famous to launch DDoS attacks.

Examples: Code Red, SQL slammer, Conficker

Question 3

The three key points of information security is the CIA triad.

Confidentiality:
Ensures that sensitive information is protected from unauthorised access

Integrity:
Ensures the data is accurate and consistent. Techniques like repudiation and validation come under this

Availability:
Ensures that authorised users always have access uninterruptedly to information they request

An information security policy is important to maintain and serve a trusted service and to attract new customers to join your service.