# Social engineering techniques 1

Practice 2



The table below provides definitions for common social engineering techniques. Drag and drop the words into the spaces provided to match the technique to the definition.

Technique	Definition
	An attack in which the victim receives a message disguised to look like it has come from a reputable source (for example, a bank), in order to trick them into giving up personal information.
	An attack in which the perpetrator invents a scenario in order to convince the victim to give them personal information or money.
	Deceiving users by sending them to a fake website that the user believes is the real one, with the intention of tricking them to submit personal data.

Items:

Blagging	Shouldering	Pharming	Phishing		





#### **Password rules**

Practice 1



A website uses the following rules to determine if a password can be used. The password must be:

At least 8 characters long AND contain at least 3 out of the following 4 character types:

- A lowercase letter
- An uppercase letter
- A number
- A symbol

OR

At least 16 characters long

Which four passwords can be used on this site?

horsebatterycomputerstaple	
fRiEnDenter	
aA1,aA1,	
saveEarth89	
pAsw0rd	
@1234/221B+24601!	

Quiz:

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#### **Cookies definition**

Practice 1



A cookie is a	file that contains a relatively	amount of data. The file
is stored on	. It is exchanged between your comp	uter and the
when you browse a v	vebsite. The data in the file is used to .	activity and to
Items:		
small track to	ext personalise large your compu	ter binary web server
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## Types of malicious software 2

Practice 1



Using the statements provided, **match** the form of attack to the correct description by dragging the items into the table.

Form of attack	Description		
	Replicates and is designed to infect as many systems as possible. Does not require a host program.		
	Appears to be a legitimate file, but actually performs malicious actions.		
	Replicates and attaches to other programs or files to spread over computer systems.		
Items:			
Trojan Worm Virus			

\_\_\_\_

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## Types of malicious software 5

Practice 1



**Malware** refers to **malicious software**, and describes programs designed to cause damage to computer systems, corrupt or change files, steal data, or cause disruption to services. There are several types, including viruses, worms, and trojans.

There are several types, melaaning	virases, worms, and trojans.
Select the <b>two</b> true statements ab	out malware.
A virus can only be caugh	t by clicking on a malicious link or attachment.
Antivirus software can on	y remove viruses, not worms or trojans.
A worm cannot install a b	ack door to enable remote control of a computer.
<ul> <li>Worms can spread auton in your address book.</li> </ul>	omously, for example, by emailing themselves to everyone
	e software, such as free games, emojis, or utility programs, that installs itself at the same time.
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# Malware protection 1

Chal	lenge 1

Select <b>four</b> options that describe appropriate measures to minimise malware risks.	
Use defragmentation software often	
Maintain and update anti-virus software	
Use of firewall	
Use biometric authentication to log in to your computer	
Perform regular computer scans	
Choose secure passwords	
Receive and share files only with users on a local area network	
Only open emails without attached files	
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stated.



### Limiting devices on a network

Practice 1



A company wants to control which devices can use their private network. They would like to make sure that only devices **owned by their employees** are able to connect to the WiFi inside their offices.

Which of the following device characteristics should the company use to identify the devices that they will allow to connect to the network?		
MAC address		
O Device name		
○ IP Address		
Oevice model number		
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#### <u>Home</u>

#### **MAC** addresses 1

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A MAC address is a unique identifier given to a network interface card. MAC address filtering is a technique that is sometimes used to help secure a network. However, this approach to network security has limitations.

Which o	one of the following statements is <b>false</b> ?
	A computer can have multiple MAC addresses.
	MAC addresses can be spoofed.
	MAC addresses are irrelevant if a computer has an IP address.
	MAC addresses can be obtained by intercepting network packets.
Quiz:	





### Memory vulnerabilities



Quality of code is essential to avoiding vulnerabilities that can be exploited by malware. One code quality issue is a type of memory fault, where a data structure is not large enough for certain values of data to be passed into it. Malware can exploit this by making data spill out of the field and into nearby memory, overwriting program instructions.

What is	the name for this type of error?
	Excessive overflow
	Fault
	Buffer overflow
	Buffer underflow
	Stack flow
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stated.



#### **SQL** injection



Many websites ask users to fill in and submit information. Examples include places to type usernames, passwords, or credit card details. Often these forms are linked to a database that can record the data.

A SQL injection occurs when attackers type malicious commands using SQL that interferes with the queries made to the database, with the intent to gain unauthorised access to the data

Read the options below and select an example of an SQL injection.

```
SELECT * FROM Users WHERE Username = 'Ambroise17' AND Password =
   'apeo12%ghP*1' OR 7=7

SELECT * FROM Users WHERE Username = 'test' AND Password = ''

SELECT * FROM Users WHERE Username = 'Meyer15' AND Password =
   'password1'
```



