Made another target more attractive.	
Made the impact less severe.	
Made an attack impossible (blocked).	
Made an attack harder but not impossible.	
	Maximum marks
Which of the following is an established security aspect? Select one alternative:	
 Non-repudiation 	
 Administrative security 	
C Loss	
 Granularity 	
	Maximum marks
What is the benefit of using a Virtual Private Network? Select one alternative:	
 Protection against packet loss 	
 Increased lag 	
 Decreased lag 	
 Protection against eavesdropping 	

	ich alternative would provide the best countermeasure against an on-line attack (active authentication)			
•	lect one alternative:			
0	To use a strict limit on login failures			
0	The use of a long password			
0	To use the Diffie-Hellman password exchange			
0	To use of a firewall			
	Maximum marks:			
	ich of the following sentences describe the term asset best from an information security perspective?			
0	Anything that has a value to the organization.			
0	Anything that an organization buys.			
	Anything that an organization sells.			
0	Anything that is situated within an organization's premises.			
	Maximum marks:			
	ere in the information security model could algorithms for securing a harddrive be placed?			
0	Administrative security			
0	Physical security			
0	Network security			
0	Computer security			
	Maximum marks: 1			

7

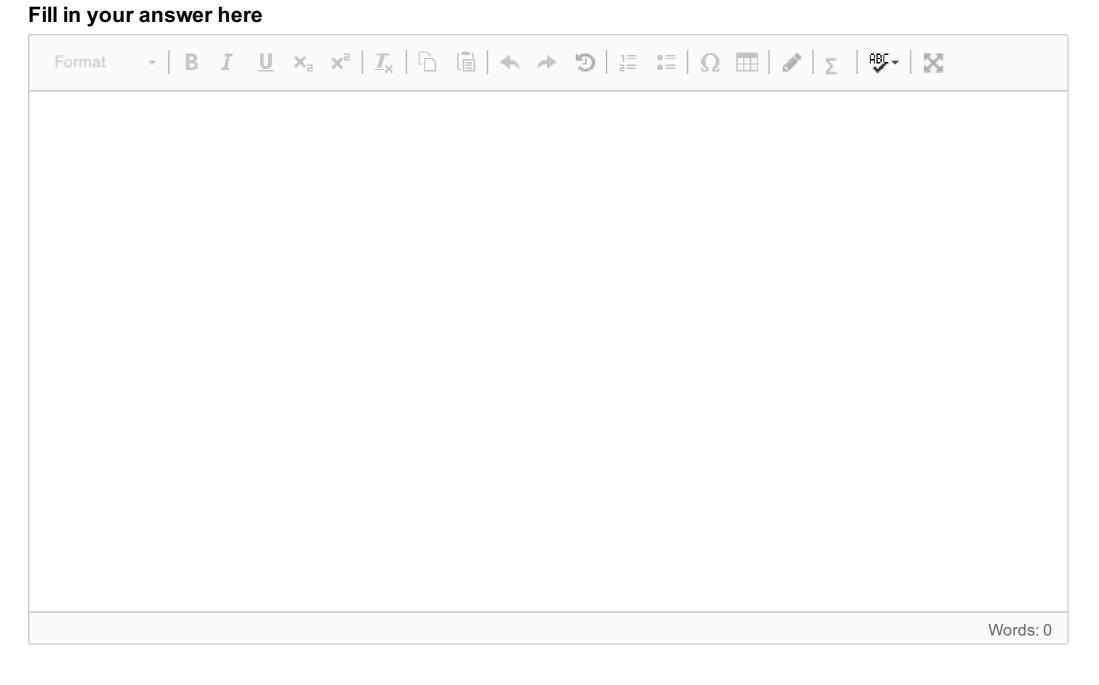
8

9

Access control is an essential aspect of information security. An operating system often manages the access control. Access control is often described using the terms: Help Note that there are more types than descriptions. Subjects **Topics** Secrecy-based Accountability Identifications Access-based Objects Role-based Identities Items are the entities that can access objects (often the human user). are things on which an action can be performed such as, e.g., files, programs, and hardware devices. There are many models for how to implement access control in practice, and one example is access control. Maximum marks: 2 Which of the below-mentioned protocol(s) is susceptible to sniffing? Select one alternative: All of them HTTP SMTP Ethernet Maximum marks: 1 Select the outdated encryption algorithm among the acronyms below. Select one alternative: TCP DES AES SED

	 Authenticity 			
	Integrity			
	 Availability 			
	Confidentiality			
	Maximum marks			
	(XML injection, Malicious code injection, SQL injection, HTML injection) is a cod injecting method used for attacking the database of a website.			
	Maximum marks			
	Which of the following is not a wireless attack? Select one alternative:			
	 Wireless hijacking 			
	Eavesdropping			
	 MAC spoofing 			
	Phising			
	Maximum marks			
Assume you encounter a search box on a web page that can take an input of 200 characters. You insert 300 characters and the remote system crashes. Usually, this type of behaviour is because of limited (local memory, storage, buffer, cloud).				
	Maximum marks			
	Imagine you are using an internet service provider (ISP) who you don't trust. What could you use to hide you browsing activity? Select one alternative:			
	browsing activity?			
	browsing activity? Select one alternative:			
	Select one alternative: The incognito mode on the browser			
	browsing activity? Select one alternative: The incognito mode on the browser A firewall			

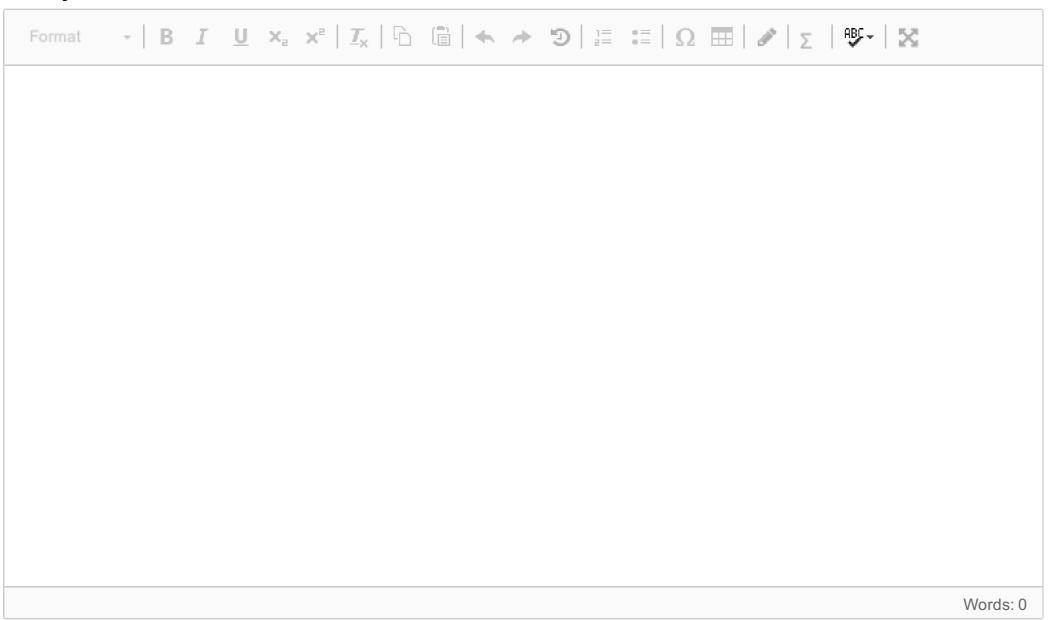
Describe what penetration testing is and what type of skills are required to perform such penetration testing.



Maximum marks: 3

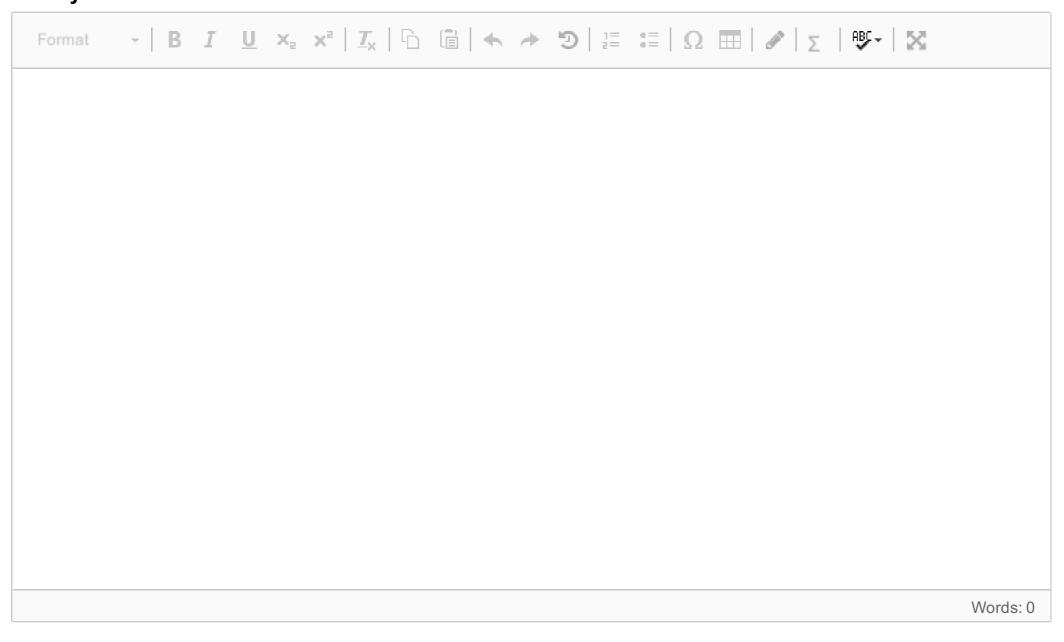
Imagine that you have been appointed responsible for the implementation of information security in an organization. Provide three key factors you deem necessary in order to succeed with such a task. Motivate your answer.

Fill in your answer here



17 Describe the concepts: Intrusion Detection System (IDS) and Intrusion Prevention System (IPS). Also, differentiate the concepts.

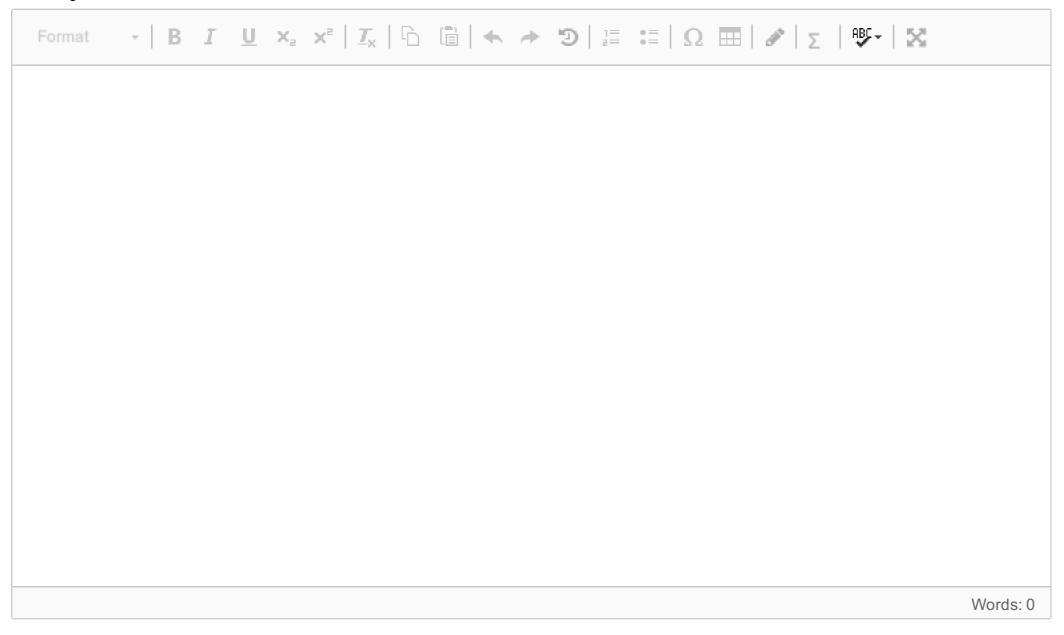
Fill in your answer here



Maximum marks: 3

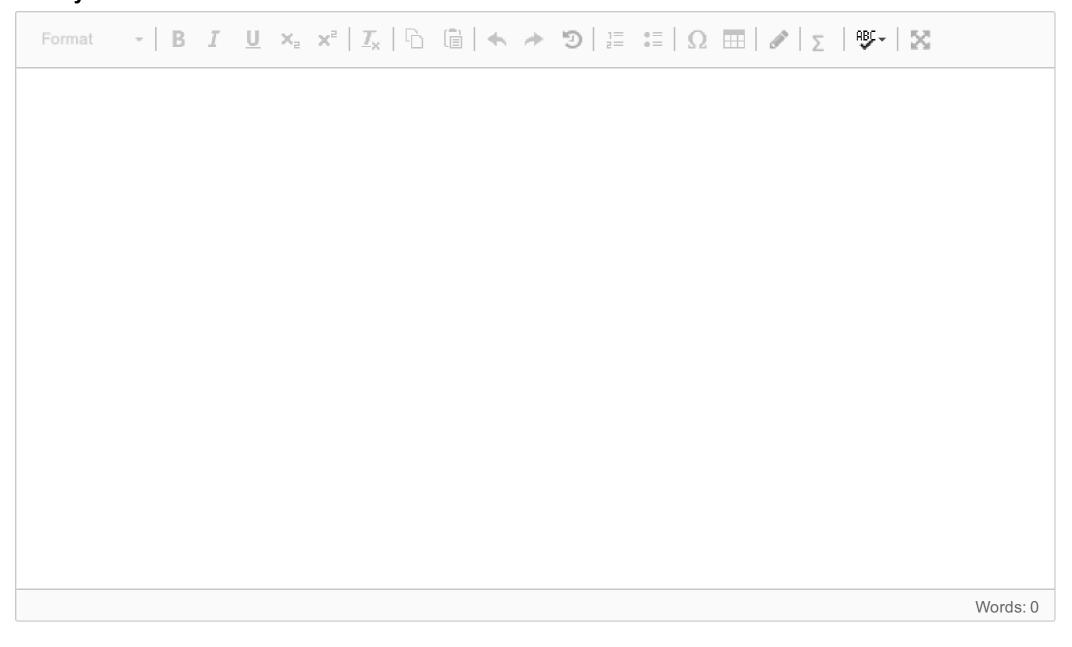
Explain the difference between stream cipher and block cipher. Also, give an example when each type of cipher could be used.

Fill in your answer here



Man-in-the-Middle (MITM) is a common type of network attack. Give one applied example of a MITM.

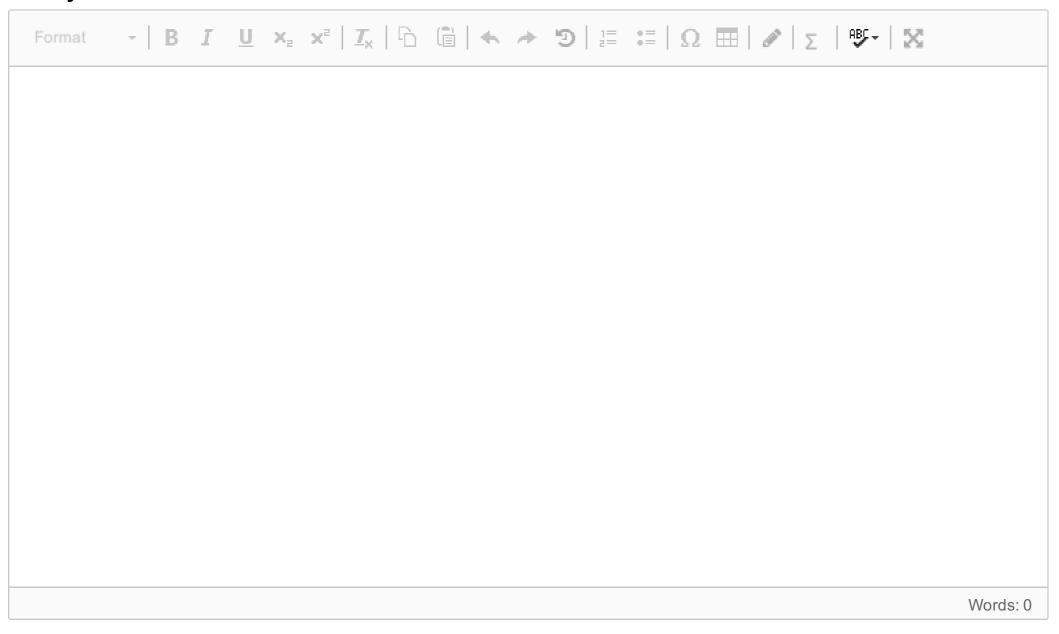
Fill in your answer here



Maximum marks: 2

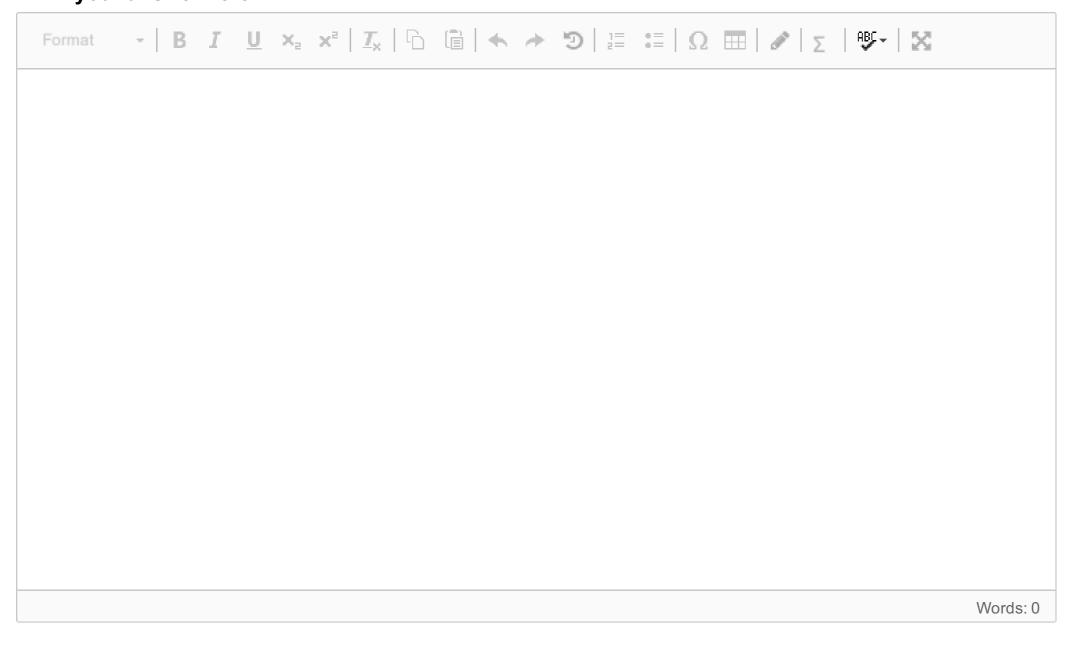
20 Explain the concept of salt, and exemplify how it can be used.

Fill in your answer here



21 Authentication mechanisms can be divided into three categories. Describe these three categories.

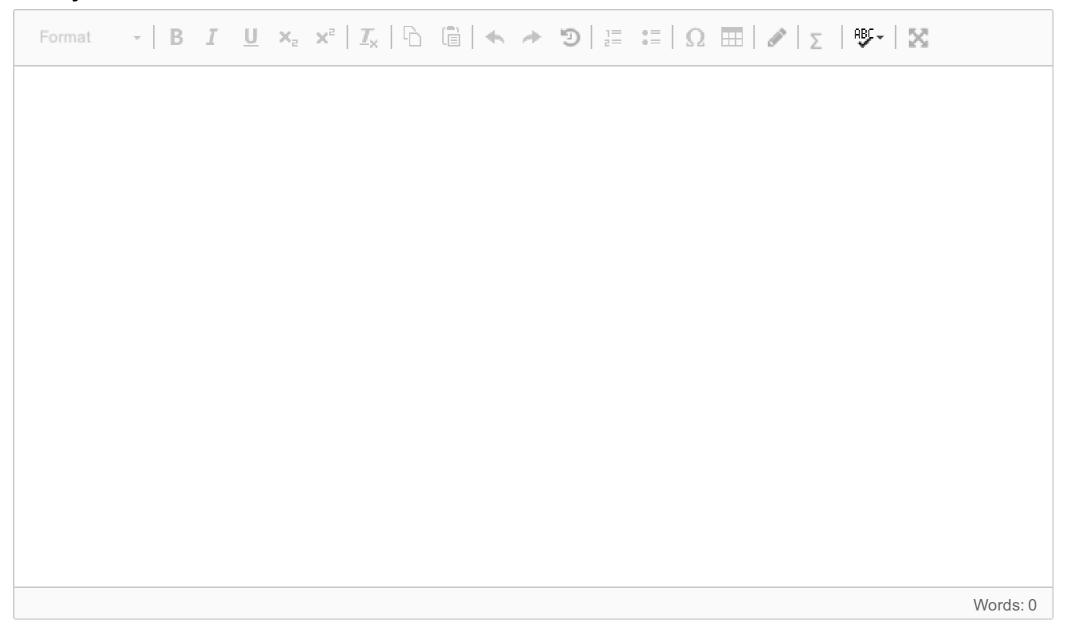
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Maximum marks: 3

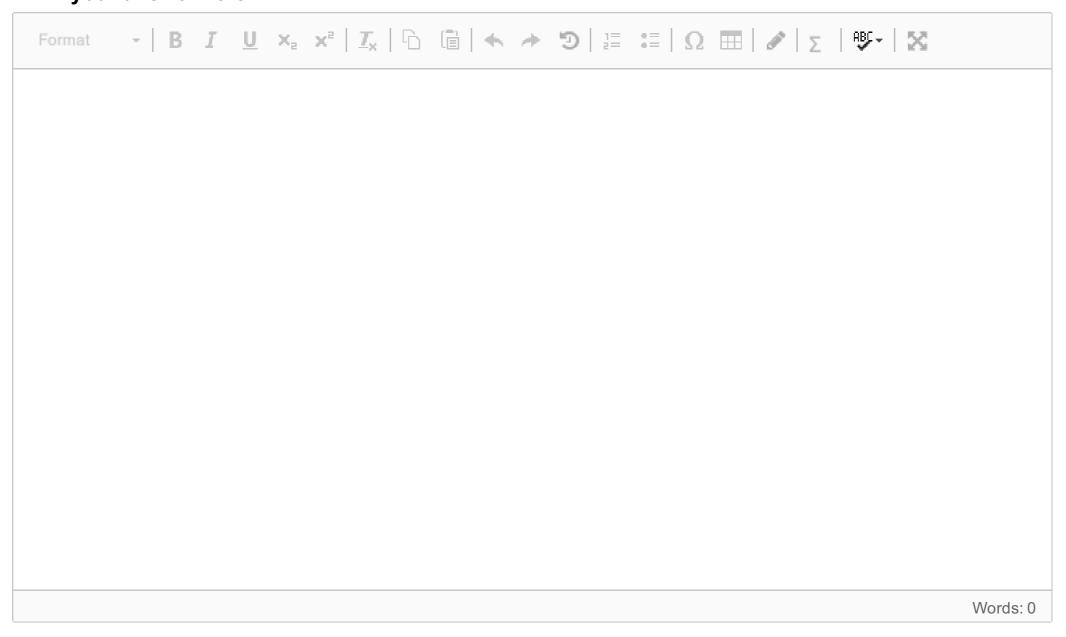
Define the terms: vulnerability, threat, harm and security controls. Also, relate the terms to each other by giving an applied example.

Fill in your answer here



23 Suggest and describe a technique by which a browser could detect and block clickjacking attacks.

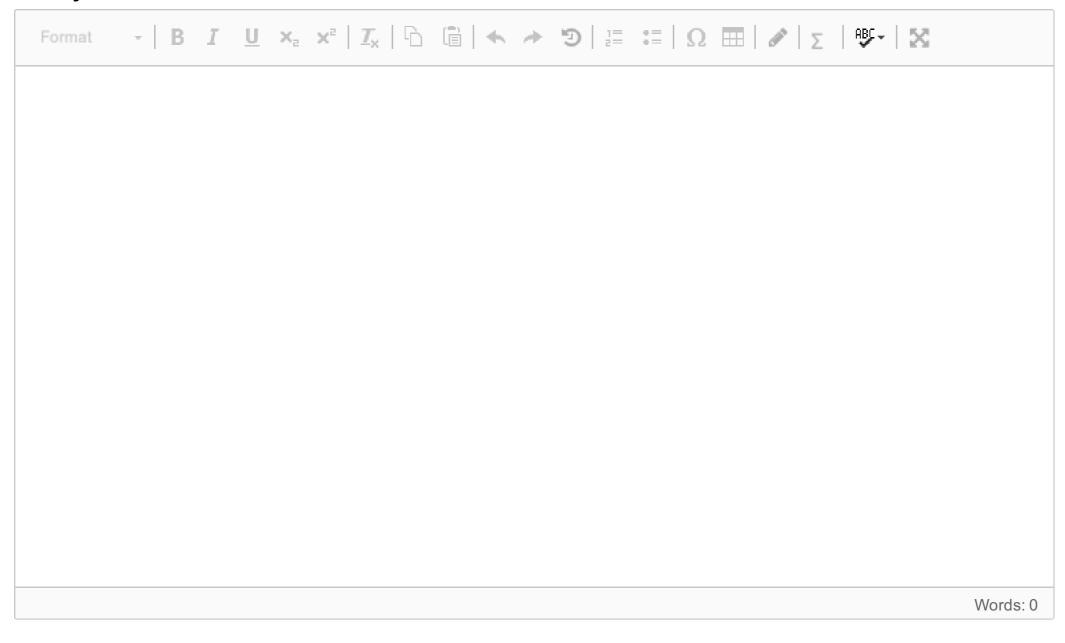
Fill in your answer here



Maximum marks: 2

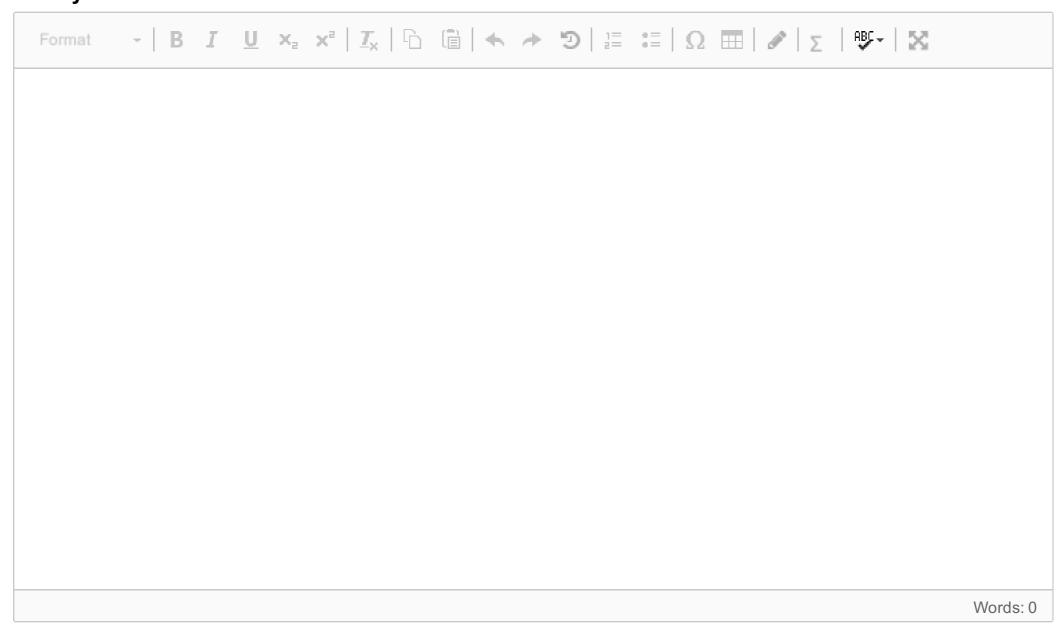
Give an example of the use of logical separation for security in a computing environment. Also discuss the advantages and disadvantages of such an approach.

Fill in your answer here



25 Why should the directory of one user not be generally accessible to other users (not even for read-only access)?

Fill in your answer here



Maximum marks: 2

In the context of software security, such as OS security, eight design principles were formulated more than 40 years ago. Despite the relative age, they remain valid even today. Describe any four of these design principles.

Fill in your answer here

