



TOPIC: Cyber Security Threats: Misconfigured Access Rights

LEARNING OBJECTIVES:

- What is Misconfigured Access Rights
- Advantages of Misconfigured Access Rights
- Disadvantages of Misconfigured Access Rights

	Teacher Activity	Pupil Activity
Starter activity	What is Misconfigured Access Rights?	Discuss (individual/paired or group)
(5-10 mins) [individual/paired or group]	Misconfigured Access Rights are when user accounts have incorrect permissions. The bigger problem from this could be giving people who are lower down the chain of command access to private information that managers could have. They could wrongly have access to employee records or customer data. This is a breach of the data protection act and the business could get in a lot of legal trouble. If the employee were to become disgruntled they could do a lot of damage to the business with this kind of access.	What are the consequences of having incorrect permissions, for example: School Account (Pupil / Staff) Bank Account Medical Record Online Shopping Site
Main activity one	Advantages	Discuss (individual/paired or group)
(15 mins)	No advantages to the business but would be a big advantage for potential attackers.	
Plenary one	Assess learning against the learning objectives	For example:
(5-10 mins)	This is an open activity whereby the teacher will decide on the best approach to do this based on the pedagogical approach your school takes on assessment.	 5 minute timed writing exercise on what has been learned so far Fill in class notes Have a discussion Answer open questions Answer directed questions





Main activity two	Disadvantages	Discuss (individual/paired or group)
(15 mins)	Leaves network vulnerable.	
	Breach of PCI DSS.	Practical Activity
	Breach of DPA	Students can draw two different diagrams;
	Hacker can traverse through network easily if they could break into the employees account with the misconfiguration.	one with how a student access should work on the school network i.e. access to their own personal area where they can store work and access software such as Microsoft Word.
		The next should be a diagram of what they can access if their account was misconfigured to a teachers or head teacher account; they then draw what they could potentially have access to such as student records, teacher email, test answers, lesson plans etc.
		This will give them a good idea of the data they can access if their account if configured incorrectly.
Plenary two	Assess learning against the learning objectives	For example:
(5-10 mins)	This is an open activity whereby the teacher will decide on the best approach to do this based on the pedagogical approach your school takes on assessment.	5 minute timed writing exercise on what has been learned so far
		Fill in class notes
		Have a discussion
		Answer open questions
		Answer directed questions
Homework (optional)	Teacher choice based on homework policy of school.	





Key Terms:

Misconfigured Access Rights

Misconfigured Access Rights are when user accounts have incorrect permissions. The bigger problem from this could be giving people who are lower down the chain of command access to private information that managers could have. They could wrongly have access to employee records or customer data. This is a breach of the data protection act and the business could get in a lot of legal trouble. If the employee were to become disgruntled they could do a lot of damage to the business with this kind of access.

Advantages

• No advantages to the business but would be a big advantage for potential attackers.

Disadvantages

- Leaves network vulnerable.
- · Breach of PCI DSS.
- · Breach of DPA
- Hacker can traverse through network easily if they could break into the employees account with the misconfiguration.