



Cyber Centurion: Users and Groups lesson plan

TOPIC: Users and Groups

OUTCOME: Recognise authorised users and authorised groups and how to remedy unauthorised users and incorrect group members.

LEARNING OBJECTIVES:

1. Understand the fundamental concepts of systems administration and the differences in configuring this in Windows and Ubuntu environments
2. Understand and define a user
3. Understand and define a group, as well as how groups can be used effectively
4. Understand the risks of unauthorised users
5. Identify and remove unauthorised users and identify missing authorised users

	Teacher Activity	Pupil Activity
<p>Starter activity 1</p> <p>(5 mins) [individual/ paired or group]</p> <p>Get them thinking..</p> <p>Resources: Pen / Activity sheet</p>	<p>Teacher to discuss student responses to the images of authorised users.</p> <p>Mention that the guest account has been disabled in the answer</p> <p>Leads on to lead activity.</p>	<p>Pupils look at images of authorised users and identify unauthorised users</p>
<p>Lead activity 1</p> <p>(5 -10 mins) [individual/ paired or group]</p>	<p>What is a user?</p> <p>What is a group?</p> <p>Why would you use groups?</p> <p>What risks do unauthorised users present?</p> <p>What are the risks of a user with elevated privileges?</p>	<p>Students to discuss... (individual/paired or group)</p> <p>Answer open questions</p> <p>Answer directed questions</p> <p>Discuss experiences with users - are students Administrators or Users on home devices?</p>
<p>Main activity (15 Mins)</p> <p>Resources: Paper & Pen</p>	<p>Put students into small teams.</p> <p>10 minutes to organise user setup</p> <p>5 minutes to explain their choices</p>	<p>Students discuss the different roles of the users and why they need specific rights.</p> <p>Students discuss which users need</p>

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<p>Presentation Model answer</p>	<p>Rules of the game:</p> <p>Students should be reminded that there is not necessarily a perfect answer, but should aim to make the most secure choice.</p> <p>After the exercise there is a model answer, although others may be acceptable. An example of this would be giving the 2 managing directors administrator privileges as well as the IT manager. This is acceptable, but could be improved further by creating a group for the managers and only giving the IT manager administrator rights.</p> <p>If students were not aware of the ability to create groups, suggest they read up on the “Users and Groups” training materials.</p>	<p>accounts.</p> <p>Students discuss if the existing default groups are acceptable or if they need to</p> <p>create extra groups.</p> <p>Students must keep a check on the time and complete the task.</p>
<p>Extension activity (5 Mins)</p>	<p>What other groups exist other than sudo/Administrator?</p> <p>What do these allow users to do?</p>	

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