

**PROFESSIONAL FAMILY: Computing and communications**

**Vocational education and training (VET) program code: CFGS ICA0**

**VET Program name: Network computer systems administration**

**Academic Year: 23-24**

## **ACTIVITY NAME AND NUMBER**

### **Activity 1 Permissions and ownership. ACL. Setuid bit.**

#### **Goal of the activity**

Understanding what permissions and ownership are. Understanding the purpose of working with permissions and ownership.

- 📺 Understanding what an ACL (Access Control List) is. Understanding the purpose of working with ACLs.
- 📺 Understanding what a Setuid bit is. Understanding the purpose of working with bit setuid.

#### **Time to develop the activity**

- 📺 5 hours

#### **Methodology and students grouping**

##### 📺 **Methodology:**

- Group of students splitted into 2 subgroups each of them a half of the group. One classroom is required for each subgroup
- Seminar and practical exercise.

##### 📺 **Students grouping:** Individual

#### **Activity description**

- 📺 [Short seminar](#) about:
  - Permissions and ownership.
  - ACLs
  - Setuid bit.

### [Practical exercise:](#)

- Working with command-line tools for adding, removing and changing permissions and ownership to files and directories.
- Working with command-line tools for creating, adding, removing and changing entries in ACLs of files and directories.
- Working with command-line tools for adding and removing the setuid bit to files and directories.


Check that student has:


- Understood the goals of this activity.
- Reached the goals of this activity.

### Resources to develop this activity

#### [Online resource](#) with:

- Documentation
- List of tasks the student has to do
- (optional) Forms to fill

 Access (local or cloud) to a Linux operating system.

 Internet and laptops.

### Teachers team role

 Lead the seminar of this activity.

 Help students to do the practical exercise of this activity.

 Get a score for the practical exercise of this activity.

 Feedback to each student.

 Check that each student has understood the goals of the activity.

### Evaluating the activity

 Main features:

- Individual
- Hetero-evaluation ( Teachers team evaluate the activity)
- Quantitative (Each student get a mark) and Qualitative (Feedback)