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 4 Partitions, filesystems and volumes. Graphical and command-line tools for working with partitions, filesystems and volumes.
Goal of the activity
- Understanding what is a: - Partition and its main features. Differences between the various types of partitions.   - Partition table and its main features. Differences between the various types of most usual partition tables.   - Filesystem and its main features. Differences between the various types of most usual filesystems.   - Volume and its main features.   Using graphical and command-line tools to work (check, read, create, modify and delete) with partitions, partition tables, filesystems and volumes.
Time to develop the activity
4 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:
   ◦ partitions
   ◦ partition tables
   ◦ filesystems
   ◦ volumes
   ◦ tools (graphical and command-line as well) for managing partitions, partition tables, filesystems, volumes.
  🎬 [Practical exercise](#):
   ◦ Checking, reading, setting, modifying and deleting partition tables.
   ◦ Checking, reading, setting, modifying, and deleting partitions.
   ◦ Installing, modifying, mounting and unmounting filesystems
   ◦ Creating, modifying, deleting, mounting and unmounting volumes.
  🎬 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

  🎬 Linux installed on a virtual machine.

  🎬 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)
- ◦ Qualitative (Feedback and comments to each student).