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 6 The Linux boot process
Goal of the activity
- Understanding: - What the stages of the Linux boot process are.   - Parameters of the Linux boot loader GRUB. GRUB setup.   - Systemd.   - Init scripts.
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: - Stages of the Linux boot process.   - UEFI   - Parameters of the Linux boot loader GRUB.   - Systemd and init scripts.

- 🎬 [Practical exercise](#):
  - ◦ Running some useful UEFI commands.
  - ◦ Basic GRUB setup.
  - ◦ Running init scripts using systemd

  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).