

Class information

- Certificate of Participation with maximum one absence
- Each part duration is between one and two hours.
- Based on “*Fedora System Linux Administration*” by Alex Callejas

Syllabus

☒ **Part 1: The Fedora Project**

Chapter 1: Linux and Open Source Projects

- History of Free Software
- History of GNU/Linux
- History of Fedora
- Why use free software

Chapter 2: Best Practices for Installation

- Tips on installation
- Gnome basics

☒ **Part 2: Workstation Configuration**

Chapter 3: Tuning the Desktop Environment

- Gnome configuration
- Terminal and prompt configuration

Chapter 4: Optimising Storage Usage

- Disk partitions
- Structure of Linux files
- BTRFS information
- BTRFS usage
- BTRFS volumes
- LVM
- Stratis

☒ **Part 3: Productivity Tools**

Chapter 7: Text Editors

- Emacs
- Vim
- Nano

Chapter 8: Working

- Word
- Excel
- Powerpoint

Chapter 9: Mail Clients and Browsers

- Firefox
- Thunderbird
- Chromium

Chapter Extra: Useful cli

- Ssh
- Rclone
- Grep
- Find
- Rsync
- pdf2x

Chapter 6: Sandbox Applications

- SELinux introduction
- Appimages
- Firejail
- Flatpak

☐ **Part 4: System Administration Tools**

Chapter 10: System Administration

- KISS
- Git introduction
- Git usage
- Bash scripting

- Bash tips

□ **Part 5: Workstation Usage**

Chapter 5: Network and Connectivity

- Nmcli usage
- IPV6
- Nmon
- Htop

□ **Part 6: System Administration Tools**

Chapter 11: Performance Tuning Best Practices

- Tuning kernel
- Tuning CPU and memory

Chapter 12: Untangling Security with SELinux

- How it works
- Labelling
- Policy

□ **Part 7: System Administration Tools**

Chapter 13: Virtualization and Containers

- QEMU/KVM
- Libvirt
- Boxes
- Virt-Manager
- Virsh
- Ansible

□ **Part 8: System Administration Tools**

Chapter 13: Virtualization and Containers

- Podman/Docker information
- Build containers
- Run containers
- Volumes
- Networks