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LCE600 - CentOS 8 Linux (RHEL 8 / Oracle Linux 8) - Senior System Administrator

Presentation

Objectives: Master CentOS 8 / RHEL 8 / Oracle Linux 8 System Administration.

Who can benefit: Linux Administrators.

Prerequisites: Taken the LCE500 - CentOS 8 Linux (RHEL 8 / Oracle Linux 8) - System Administrator course or possess equivalent skills.

Learning technique: Clear, theoretical course content divided into lessons and extensive LABS.

Student Progression: Student progression is monitored in terms of comprehension using self-assessment tests.

Duration: 4 days (28 hours).

Prerequisites

Hardware

- A computer running either MacOS, Linux, Windows™ or Solaris™,
- QWERTY US Keyboard,
- 4 GB of RAM,
- Headphones,
- A mic (optional).

Software

- Chrome, Edge or Firefox web browser.

Internet

- A fast, **direct** (no proxy or VPN), Internet connection (4G minimum),
- Access to : <https://itraining.network>, <https://itraining.team> and subdomains thereof.
- Accessible ports : 80, 443.

Training Program

- **LCE601 - Managing Integrated Peripherals**
 - Special Files

- LAB #1 - Commands
 - 1.1 - The lspci Command
 - 1.2 - The lsusb Command
 - 1.3 - The dmidecode Command
- LAB #2 - The sysctl Command
 - 2.1 - The /proc Directory
 - Files
 - /proc/cpuinfo
 - /proc/interrupts
 - /proc/dma
 - /proc/ioports
 - /proc/devices
 - /proc/module
 - /proc/diskstats
 - /proc/partitions
 - /proc/swaps
 - /proc/loadavg
 - /proc/meminfo
 - /proc/version
 - Directories
 - ide/scsi
 - acpi
 - bus
 - net
 - sys
 - 2.2 - Using the sysctl Command
- LAB #3 - Interpreting Information in /proc
 - 3.1 - free
 - 3.2 - uptime ou w
 - 3.3 - iostat
 - 3.4 - hdparm
 - 3.5 - vmstat
 - 3.6 - mpstat
 - 3.7 - sar
- USB Modules
- udev
 - The udevadm Command
- The /sys Filesystem
- LAB #4 - Limiting Ressources
 - 4.1 - ulimit
 - 4.2 - CGroups
 - Limiting Memory Usage
 - The cgcreate Command
 - The cgdelete Command
 - The /etc/cgconfig.conf File
 - The cgconfigparser Command
- **LCE602 - Compiling the Kernel and Managing Quotas**
 - The Linux Kernel
 - LAB #1 - Modules
 - LAB #2 - Compiling and Installing a Kernel and Modules

- 2.1 - Move /home
- 2.2 - Preparing the Environment
- 2.3 - Preparing the Kernel Source Tree
 - The .config file
 - The Makefile file
- 2.4 - Configuring the Kernel
- 2.5 - Compiling the Kernel
- 2.6 - Installing the Kernel
- LAB #3 - Managing Quotas
 - 3.1 - The quotacheck Command
 - 3.2 - The edquota Command
 - 3.3 - The quotaon Command
 - 3.4 - The repquota Command
 - 3.5 - The quota Command
 - 3.6 - The warnquota Command
- **LCE603 - Managing the Network**
 - Presentation
 - The nmcli Command
 - LAB #1 - Configuring the Network
 - 1.1 - Connections and Profiles
 - 1.2 - Name Resolution
 - 1.3 - Adding a Second IP Address to a Profile
 - 1.4 - The hostname Command
 - 1.5 - The ip Command
 - 1.6 - Manually Activating and Disactivating a Device
 - 1.7 - Static Routing
 - The ip Command
 - Disactivating/Activating Internal Routing on a Server
 - LAB #2 - Diagnostics
 - 2.1 - The ping Command
 - 2.2 - The netstat Command
 - 2.3 - The traceroute Command
 - LAB #3 - SSH
 - 3.1 - Presentation
 - SSH-1
 - SSH-2
 - 3.2 - Configuring the Server
 - 3.3 - Configuring the Client
 - 3.4 - SCP
 - Presentation
 - Usage
 - 3.5 - Authentication with Asymmetric Keys

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