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LCE514 - Training Validation

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Course Materials

Access to the course materials, LABS and tests requires a per trainee subscription to our LMS on the Internet.

You have been given a free 365 day subscription to your Course Materials on our LMS.

Reminder of the Training Program

- LCE500 CentOS 8 Linux (RHEL 8 / Oracle Linux 8) System Administrator
 - Contents
 - Prerequisites
 - Hardware
 - Software

- Internet
- Using our infrastructure
- Training Program
- Skills Assessment

• LCE501 - Managing Users and Groups

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 - The getent Command
 - The /etc/group and /etc/gshadow files
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- ∘ LAB #1 Managing Users and Groups
- $\circ\,$ LAB #2 su and su -
- \circ sudo

• LCE502 - Package Management

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 - 1.2 make

- 1.3 make check
- 1.4 make install
- ∘ LAB #2 The rpm Command
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- ∘ LAB #3 The dnf Command
 - 3.1 Presentation
 - 3.2 Configuration
 - 3.3 Repositories
 - 3.4 Searching for Packages
 - 3.5 Viewing Information on and Downloading a Package
 - 3.6 Installing a Package
 - 3.7 Updating Packages
 - 3.8 Deleting Packages
- Shared Libraries
 - Presentation
 - Introduction
 - Shared Object Locations
 - Id-linux.so.2
 - The Idd Command
 - The /etc/ld.so.conf File
 - The Idconfig Command

• LCE503 - Managing File Permissions

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- Preparation
- LAB #1 Basic Unix File Permissions
 - 1.1 Changing Permissions with chmod
 - Symbolic Mode
 - Octal Mode
 - The umask Command
 - 1.2 Changing the Owner or the Group with chown and chgrp
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- The chgrp Command
- LAB #2 Advanced Unix Permissions
 - 2.1 SUID/SGID bit
 - 2.2 Inheritance Flag
 - 2.3 Sticky bit
- LAB #3 Extending Linux Permissions using ACLs and Attributes
 - 3.1 ACLs
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• LCE504 - Managing Disks and Filesystems

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- Partitions
- Partitioning
 - LAB #1 Partioning your Disk with the fdisk Command
 - LAB #2 Modifier les Drapeaux des Partitions avec fdisk
- Logical Volume Manager (LVM)
 - LAB #3 Linear Logical Volumes
 - Physical Volumes (PV)
 - Volume Groups (VG) and Physical Extents (PE)
 - Logical Volumes (LV)
 - LAB #4 Grow a Volume
 - LAB #5 Snapshots
 - LAB #6 Deleting Volumes
 - LAB #7 Mirrored Volumes
 - LAB #8 Changing LVM Attributes
 - LAB #9 Striped Volumes
 - LAB #10 Managing Meta-data
- Journaled Filesystems
 - Ext3
 - Managing Ext3
 - LAB #11 Converting Ext3 to Ext2
 - LAB #12 Converting Ext2 to Ext3
 - LAB #13 Using another PArtition for the Journal

- LAB #14 Changing the File System Check interval on an ext3 Filesystem
- Ext4
 - LAB #15 Creating an Ext4 Filesystem
 - LAB #16 Adding a Label to an Ext4 Filesystem
 - LAB #17 Converting Ext3 to Ext4
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 - LAB #18 Creating an XFS Filesystem
 - LAB #19 Adding a Label to an XFS Filesystem

• LCE505 - Process Scheduling

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- o cron
 - The /etc/crontab file
 - Time Fields
 - User Crontabs
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• LCE506 - Archiving and Compression

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- Traditional Backup Tools
 - Preparation
 - The tar Command
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 - LAB #1 Working with the tar Command
 - The GPL tar Commande and Compression
 - The cpio Command
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 - LAB #2 Working with the cpio Command
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 - Presentation
 - LAB #3 Working with the dd Command
 - The dump et restore Commands
 - Presentation
 - LAB #4 System Backups

- Backing up the Installed Package List
- Backing up the Disk Structure
- Backing up Mount Points
- Backing up the Boot Loader
 - GRUB Legacy
 - GRUB 2 on BIOS
 - GRUB 2 on EFI
- Backing up User Files
- Rsync
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 - LAB #5 Working with the rsync Command
- Compression
 - The gzip Command
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 - LAB #4 Working with the gzip Command
 - The bzip2 Command
 - Presentation
 - LAB #5 Working with the bzip2 Command
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 - LAB #6 Working with the xz Command
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• LCE507 - Process Management

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 - The pgrep Command
 - The pstree Command
 - The top Command
 - The fg, bg and jobs Commands
 - The wait Command

- The nice Command
- The renice Command
- The nohup Command
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• LCE508 - Managing Logs

- Contents
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- The dmesg Command
- Security Logging
 - The last Command
 - The lastlog Command
 - The lastb Command
 - The /var/log/secure File
- The /var/log/audit/audit.log File
 - Managing Audit Events
 - auditd
 - auditctl
 - Viewing Audit Events
 - The aureport Command
 - The ausearch Command
- The /var/log/messages File
- Applications
- rsyslog
 - Priorities
 - Facilitiess
 - The /etc/rsyslog.conf File
 - Modules
 - Global Directives
 - Rules
 - Facility.Priority
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- Using the * Wildcard
- n Facilities with Identical Priorities
- n Selectors with Identical Actions
- The logger Command
- The logrotate Command
- journald
 - Using Journald
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• LCE509 - Printer Management

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 - Printers
 - Administration
 - The Ipstat Command
 - The Ipadmin Command
 - The accept et cupsenable Commands
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 - The /etc/cups/printers.conf File
 - The /etc/cups/classes.conf File
 - The cancel Command
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 - System Startup
 - Boot Loader
 - BIOS Systems
 - EFI Systems
 - GRUB 2
 - The /boot/grub/grub.cfg File
 - The /etc/default/grub file
 - Files in the /etc/grub.d directory
 - Initramfs
 - The init Script
 - Kernel Booting Process
 - Systemd
 - LAB #1 The systemctl Command
 - LAB #2 Configuration Files
 - 2.1 Default Configuration Files
 - 2.1 Overloading Default Configuration Files
 - LAB #3 The systemd-analyze Command
 - LAB #4 Targets
 - 4.1 Checking the Target Dependencies
 - 4.2 The Default Target
 - Checking the Default Target
 - Changing the Default Target
 - Changing the Default Target for the Current Session
 - LAB #5 Managing Services
 - 5.1 Single Service Instances
 - 5.2 Multiple Instance Services
 - 5.3 Disallowing Modifications to a Service Status
 - ∘ LAB #6 System Shutdown
 - 6.1 The shutdown Command
 - 6.2 The reboot Command

- 6.3 The halt Command
- 6.4 The poweroff Command

• LCE511 - Training Validation

- Course Materials
- Reminder of the Training Program
 - Day #1
 - Day #2
 - Day #3
 - Day #4
- Training Evaluation
- Exam Acquired knowledge

Training Evaluation

Please complete and submit the training evaluation form.

Exam - Acquired knowledge

Please take the final examination.

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