Linux – Administration

Course code: LXI2

The course is designed for Linux operating system servers administrators who will learn common and advanced tasks related to the administration of the system. The participants in the course will learn to administrate operating system Linux, to work with the command interpreter, to administrate the processes, to plan the functions, to back up the important data, to track the performance and monitor the system load. The participants will also learn to set and to monitor the system logging, to configure the starting scripts of the operating system, etc.

What we teach you

The course participants will learn to administer operating system LINUX , to work with command interpreter, to administrate the processes, to plan the functions, to back up the important data, to track the performance and monitor the system load. The participants will also learn to set and to monitor the system logging, to configure the starting scripts of the operating system, etc.

Course outline

Command interpreter BASH
Basics of working with BASH, shell login, change of the Shell

Commands history, addition, configuration

Variable environment, aliases

Redirections, pipes

Administration of the processes
Control of the tasks (jobs control)

Processes administration, signals

System administration

Information about system sources, top tools, directory/proc and /sys

Start of the system, init process (upstart process)

Starting rc scripts

Monitoring of the system load

Logging and system monitoring

Principle of the log gathering in the UNIX system

Syslogd and Rsyslogd

Log rotation

Log analyses

Tasks planning according to time

Tasks planning using at, cron, fcron.

Setting of the right time, NTP protocol

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Linux – Administration

Backing up

Methods of backing up, total incremental, block, file

Tools tar, cpio, partclone, dump-restore, rsync, rdiff-backup

Linux core

Functions of the system core

GRUB boot loader

Core moduls, tools for working with moduls

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