



UNIX II: Advanced Commands, Tools and Utilities

Varighed: 3 Days **Kursus Kode: GK6701**

Beskrivelse:

If you want to increase your productivity and UNIX advanced tool mastery, this is the class for you. Take your UNIX skills to the next level with the labs and our exclusive post-class concepts and real-world applications in this excellent companion course to UNIX I: Fundamentals of the UNIX Command Line. Experienced UNIX experts will help you master a powerful set of advanced UNIX commands and reinforce UNIX concepts as rapidly as possible.

Målgruppe:

This course is valuable for technical and business professionals involved in the use of UNIX-based systems and applications - end users and power users, systems engineers, analysts/programmers, system administrators, UNIX I alumni, network specialists, network managers, and system specialists. This course is applicable to all "flavors" of UNIX. You must have an understanding of basic UNIX concepts and commands.

Agenda:

- To harness the potency of shell scripting
 - Real-world solutions applicable to all "flavors" of UNIX
 - Text manipulation using regular expressions
 - Use of advanced power tools
 - Custom utility script creation
 - Management and control of user processes
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Forudsætninger:

- UNIX I: Fundamentals of the UNIX Command Line
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Yderligere Kurser:

Students followed up UNIX II: Advanced Commands, Tools, and Utilities by attending these popular classes:

- RH133 Red Hat® Linux System Administration & Red Hat® Certified Technician (RHCT®) Lab Exam
 - RH253 Red Hat® Linux Networking and Security Administration
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Indhold:

1. Review UNIX Fundamentals

- Directory commands
- File display and manipulation commands
- Informational commands
- File Access Control commands
- vi Editing
- Archive and compression commands

2. Process Control

- Multitasking
- Process Information
- Process Status: ps
- Changing process state
- Job Control
- Sending Signals

3. Regular Expressions

- When to use REs: modes and commands
- Comparing REs with file name generation
- Limited and extended RE search patterns
- RE modifier patterns
- Replacement REs
- Use REs with grep and vi

4. Power Utilities

- Advanced text searching - fgrep, grep, egrep
- Stream editing - sed
- Pattern matching and processing language - awk

5. Creating Shell Scripts

- Create a shell procedure
- Program processing - exit
- Script user interaction - echo and read
- Sourcing shell scripts

6. Shell Command Line Processing

- Command line interpretation
- Command line sequencing
- Advanced I/O redirection
- Grouping commands: subshell and inline groups - () and { }
- Using command substitution to generate command line arguments

7. Shell Programming Essentials

- Variables in shell programs
- Accessing command line arguments
- Built-in shell variables
- Conditional evaluation - test
- Conditional file and conditional string evaluation
- Expression evaluation - expr
- Integer expression evaluation
- String expression evaluation

8. Structured Shell Programming

- Conditional flow control - if
- Iterative flow control - while, for
- Abnormal loop termination
- Case flow control - case

9. Advanced Options

- Advanced file system searching and processing - find
- Sort files using multiple keys - sort
- Translate character set - tr

10. Selected Topics

- Count characters, words, and lines - wc
- Compare text files - diff
- Compare binary files - cmp
- Break up large files - split
- Binary file dump - od
- Extract text from binary files - strings
- Format data with printf
- Sequential numbers generation - seq
- Use xargs to make commands receive stdin
- Change text file or I/O stream width - fmt
- Combine files vertically - paste

11. User Administration Utilities

- Display file system allocation and utilization
- Analyze file usage space - du
- Periodic commands execution - crontab
- Deferred commands execution - at

12. The X Windowing System

- GUI timeline
- X layers
- Client/server mode
- Starting an X Windows session
- Remote X Windows clients
- X display
- Desktop environments
- The present: Desktop solutions
- The future

Flere Informationer:

For yderligere informationer eller booking af kursus, kontakt os på tlf.nr.: 44 88 18 00

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