

GL-385 Advanced Bash script programming

COURSE DESCRIPTION

The Advanced Bash script programming workshop follows-up the course GL-375 - Linux Bash script programming for System Administrators and extends its topics. Some of modules in this workshop are strongly connected with topics of GL-385 course (e.g. filters grep, sed, awk, shell programming). Some modules covers not mentioned useful topics in any other course (e.g. gnuplot, ssh, GNU tools). This workshop consists of several independent modules and can be customized very easily.

Delivery Method

Instructor-led training (ILT)

Duration

Five days

Course outline

- Regular expressions, e/grep and Advanced sed techniques
 - constructing complex RE
 - constructing ERE
 - trickier substitutions using RE
 - sed scripting
 - logs parsing and processing
- Advanced bash constructions
 - command line editing and prompting
 - using and tuning history
 - less-known built-in shell variables
 - less-known shell features
 - brace expansion
 - tilde expansion
 - programmable completion
 - shell options
 - special character handling
 - advanced variables manipulation
 - enhanced 'for' and '[' construction
 - working with patterns
 - built-in enhanced commands
 - read, bind, eval, printf, ulimit
 - recursive functions
 - creating shell function libraries
 - parsing script options with 'getopts'
- Advanced nawk programming
 - associative arrays
 - built-in functions
 - user functions
 - system function
 - complex nawk programming
- Writing complex shell scripts
 - real-life examples
 - guided practice
 - cooperative programming
 - functions libraries and sourcing
 - good scripting manners