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ADVANCED SHELL PROGRAMMING
Effective work with power tools

DELIVERY METHOD
Instructor Led Training

DURATION
4 Days

COURSE OUTLINE

Advanced vi/m editor techniques

- useful non common commands
- highlighting, auto-indenting
- auto-completion, folding
- spell checking, cooperation with 'make'
- using external tools inside vim
- automation, key mapping
- customizing, plug-ins, templates
- vim7, vimdiff

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

Using unix tools for administrators

- screen
- rdesktop
- gfind, gtar
- a2ps

Advanced ssh techniques and PGP

- using keys (non-interactive login)
- X11 redirection
- secure channels
- creating PGP keys
- keys management
- signing files, verification files

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 characters handling
- advanced manipulation with variables
- 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'

Data visualization using 'gnuplot'

- data processing using sed/awk
- plotting graphs
- multiple graphs output
- file and terminal output
- programming in gnuplot env.

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