

Linux Shell scripting - Fundamentals Course

Objectives	<ul style="list-style-type: none">• To learn about the Linux shell environment.• To develop Shell scripts with Bash.• To understand useful Linux commands.
Target audience	Unix/Linux users.
Prerequisites	Basic experience with Unix/Linux.
Time	3 days

Day 1

Topic	Description
Introduction	<ul style="list-style-type: none">• Introduction to shell
Shell basic	<ul style="list-style-type: none">• man tips• Wild Cards• Redirecting I/O• Pipes and Filters• Basic commands (head, tail, sort, cut, ssh)• Commands listing (; &&)• Process Control (ps, kill, bg, fg)• <i>Exercising</i>
Shell Environment	<ul style="list-style-type: none">• Environment Variables (export, env)• Shell startup files• Sourcing a file• Shell quotes (“ ’ `)• Bash shortcuts• <i>Exercising</i>

Day 2

Topic	Description
Advanced editing tools	<ul style="list-style-type: none">• Regular expressions• grep• sed• awk• <i>Exercising</i>
Scripting (Bash style)	<ul style="list-style-type: none">• What is shell script• How to run script• Variables (export ``)• Shell arithmetic's (expr)• Flow Controls (if, while, for, case)• Exit code• Arguments• Reading input• Functions• Traps• Debug a script• <i>Exercising</i>

Day 3

Scripting	<ul style="list-style-type: none">• <i>Exercising (continue scripting)</i>
Useful commands	<ul style="list-style-type: none">• find , file , s\diff• screen , script , alias• <i>Exercising</i>
Appendix Enhanced commands	<ul style="list-style-type: none">• rpm query , netstat , lsof , wget• nslookup , dos2unix , crontab