

OPS435 Skills - Portion of Course Outline - Winter 2015

Contents (internal links):

Matches:

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Learning Outcomes:

1. Design, construct, test and modify complex shell scripts
2. Create, manage and change environment variables
3. Make appropriate use of Filename Expansion
4. Construct and use Regular Expressions
5. Use Unix filters such as awk, grep, sed and sort
6. Manage script versioning

Topic Outline:

Linux Overview - 5%

- History
- The Shell
- The Kernel
- The GUI
- GNU/Linux and the Free Software Foundation

CLI Basics - 5%

- Utilities - ls, cat, rm, more, echo, date, etc.
- Files - cp, mv, head, tail, uniq, diff, file, etc.

Getting Help - 5%

- Linux manual pages

Unix Filters - 15%

- grep
- sed
- awk
- sort

The File System - 10%

- File Types
- Pathnames
- Access Permissions
- Links

The Shell - 10%

- CLI Syntax
- File I/O
- File Redirection
- Pipes

Shell Expansions - 10%

- File names
- Variables
- Special Characters

The Bourne Again Shell - 15%

- Startup Files
- Job/Process Control
- Parameters & Variables
- Quoting
- History
- Aliases
- Functions

Programming BASH - 20%

- Control Structures
- Variables
- Arrays
- Builtin Commands
- Expressions - arithmetic, logical, regular
- Recursive functions

Scripting Tools - 5%

- Version Control
- Archiving
- Logging

Topic Frequency (labs 1-8):

[illegible]

