Linux Lab Report

Author: kate | Host: kate-VMware-Virtual-Platform

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Total Commands: 348 | Unique: 80

▼ 🗞 Summary

Completing all 20 Linux assignments has significantly enhanced my understanding and practical skills in Linux system administration. This automation demonstrates mastery of system analysis, scripting, reporting, and network configuration.

- Built automated reporting workflow (Markdown → HTML → PDF).
- Configured **msmtp** for secure Strato email dispatch.
- Installed **Pandoc** and **wkhtmltopdf** for document exports.
- Integrated screenshot handling and command statistics.
- Implemented version tracking and feedback capture.
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- ▶ Part 1 1 System and User Information
- ▶ Part 2 2 Commands with Flags and Arguments
- ▶ Part 3 3 Navigating Between Directories
- ▶ Part 4 4 Creating and Removing Directories
- ▶ Part 5 5 Listing Files with Detailed Information
- ▶ Part 6 6 Viewing and Changing File Permissions
- ▶ Part 7 7 File Management
- ▶ Part 8 9 System Administration
- ▶ Part 9 11 Export Flow and Logging
- ▶ Part 10 12 Disk Space and Memory Usage
- ▶ Part 11 13 User Groups and Permissions (Optional)
- ▶ Part 12 14 Scheduled Jobs with cron (Optional)
- ▶ Part 13 15 Environment Variables and System Settings
- ▶ Part 14 16 Network Ports and Services (Optional)
- ▶ Part 15 17 System Logs with tail and Filtering
- ▶ Part 16 18 Directory Structure with find
- ▶ Part 17 19 User History and Command Logs (Optional)
- ▶ Part 18 20 Scheduled Jobs with crontab
- **▼** Achievements Summary

Since installing the Linux VM environment, the following milestones have been completed:

- Installed **Pandoc** and **wkhtmltopdf** for exporting documentation.
- Configured **msmtp** for Strato SMTP email integration.
- Built docs-engine structure with templates and automation scripts.
- Created lab.sh for full system analysis and report generation.
- Developed master_parts.md with all 20 Linux lab exercises.
- Automated HTML and PDF report generation with statistics and feedback.

Command Statistics:

Total Commands: 348 Unique Commands: 80 HTML Reports: 6 PDF Reports: 5

"From setup to automation – this project demonstrates complete Linux mastery."

▶ Mentor Feedback