

Linux Troubleshooting (L-314)

Troubleshooting Methodology

- The Troubleshooting Mindset
- Evaluating Possible Solutions
- Identifying and Implementing Change
- Define and Follow Policies
- Working with Others
- Finding Documentation
- Finding Help Online
- TROUBLESHOOTING TOOLS
- Common Troubleshooting Tools
- RPM Queries
- RPM Verification
- SRPM and spec Files
- Hardware Discovery Tools
- Configuring New Hardware with hwdm
- strace and ltrace
- lsof and fuser
- ipcs and ipcrm
- iostat, mpstat, and vmstat
- Using hdparm to Measure
- Troubleshooting with the ip command
- Name Resolution
- ss/netstat and rpcinfo
- nmap
- Netcat
- tcpdump and wireshark
- LAB: Determining the System's Configuration
- Troubleshooting with rpm

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- Process Related Tools
- Network Tools
- Rescue Environments
 - Diagnostic/Recovery
 - Rescue Procedures
 - Recovery: mount & chroot
 - Recovery Examples
 - Recovery: Network Utilities
 - LAB: Recovery Runlevels
 - Recovering Damaged MBR
 - Recover from Deleted Critical Files
- **Topic Group 1**
 - Linux Boot Process
 - System Boot Method Overview
 - systemd System and Service Manager
 - Using systemd
 - Booting Linux on PCs
 - Troubleshooting With GRUB 2
 - Boot Process Troubleshooting
 - Troubleshooting: Linux and Init
 - Process Management
 - Process Management Tools
 - Troubleshooting Processes: top
 - Filesystem Concepts
 - Filesystem Troubleshooting
 - Backup Concepts
 - Backup Troubleshooting
 - Backup Troubleshooting

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- LAB: Troubleshooting Problems: Topic Group 1
- **Topic Group 2**
 - Networking Tools
 - Linux Network Interfaces
 - Networking Commands Review
 - NetworkManager
 - Networking Troubleshooting
 - Networking Troubleshooting
 - Virtual Interfaces/IP Aliases
 - Network Teaming
 - Xinetd Concepts
 - Xinetd Troubleshooting
 - TCP Wrappers Concepts
 - TCP Wrappers Concepts
 - TCP Wrappers Troubleshooting
 - Netfilter/iptables Concepts
 - Netfilter/iptables Troubleshooting
 - LAB: Troubleshooting Problems: Topic Group 2
- **Topic Group 3**
 - X11 Concepts
 - X11 Server Operation
 - X11 Troubleshooting
 - Rsyslog Concepts
 - System Logging
 - systemd Journal
 - systemd Journal's journalctl
 - Secure Logging with Journal's Log Sealing
 - Syslog Troubleshooting

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- RPM Concepts
- RPM Troubleshooting
- Common Unix Printing System (CUPS)
- CUPS Troubleshooting
- CUPS Troubleshooting
- at & cron
- at & cron Usage
- at & cron Troubleshooting
- LAB: Troubleshooting Problems: Topic Group 3
- **Topic Group 4**
 - Users and Groups
 - Users and Groups Troubleshooting
 - PAM Concepts
 - PAM Troubleshooting
 - Filesystem Quotas
 - Quotas Troubleshooting
 - File Access Control Lists
 - ACL Troubleshooting
 - SELinux Concepts
 - SELinux Troubleshooting
 - SELinux Troubleshooting Continued
 - LAB: Troubleshooting Problems: Topic Group 4
- **Topic Group 5**
 - Kernel Modules
 - Kernel Modules Troubleshooting
 - Logical Volume Management
 - Creating Logical Volumes
 - LVM Deployment Issues

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- VG Migration, PV Resizing & Troubleshooting
- Software RAID Overview
- RAID Troubleshooting
- Multipathing Overview
- SAN Multipathing
- Multipath Configuration
- Multipathing Best Practices
- LDAP and OpenLDAP
- Troubleshooting OpenLDAP
- NIS and NIS+ (YP)
- NIS Troubleshooting Aids
- LAB: Troubleshooting Problems: Topic Group 5
- **Topic Group 6**
 - DNS Concepts
 - DNS Troubleshooting
 - DNS Troubleshooting
 - Apache Concepts
 - Apache Troubleshooting
 - Apache Troubleshooting
 - FTP Concepts
 - FTP Troubleshooting
 - Squid Concepts
 - Squid Troubleshooting
 - LAB: Troubleshooting Problems: Topic Group 6
- **Topic Group 7**
 - Samba Concepts
 - Samba Troubleshooting
 - Postfix Concepts

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- Postfix Troubleshooting
- Postfix Troubleshooting
- IMAP & POP Concepts
- IMAP/POP Troubleshooting
- MariaDB
- MariaDB Troubleshooting
- LAB: Troubleshooting Problems: Topic Group 7