

Creating, Extracting, Compressing, and Managing tar Backup Archives

- Download the “Javaless_Doc.tar” file and move it into home directory.
- Run these tar commands:
 - a. `tar cvvWf Javaless_Doc.tar TarDocs/ /home/sysadmin/Projects/TarDocs/Documents/Java`
 - b. `tar cvf Javaless_Docs.tar --exclude="Java" /home/sysadmin/Projects/TarDocs`

Creating, Managing, and Automating Cron Jobs

- Cron command for task automation:
 - a. Cron job = `0 6 * * 3 ./authlog_backup_script"authlog_backup_script" tar cf logs_backups.tar /var/log/auth.log ()end`

Writing Basic Bash Scripts

- `mkdir backups/{freemem,diskuse,openlist,freedisk}`
- System.sh script:
 - a. `free -h > ~/backups/freemem/free_mem.txt`
 - b. `du -h > ~/backups/diskuse/disk_use.txt`
 - c. `lsof > ~/backups/openlist/open_list.txt`
 - d. `df -h > ~/backups/freedisk/free_disk.txt`

Performing Various Log Filtering Techniques

- `Journalctl -p emerg..err`

- `Journalctl --disk-usage`
 - a. `sudo journalctl -b -u systemd-journald | less`
- `Sudo journalctl --vacuum`
- `sudo journalctl --vacuum-file=2`

Creating Priority-Based Log Files

- `Vi /etc/rsyslog.conf`

Managing Log File Sizes

- Rotation Scheme:

```
/var/log/auth.log {  
    weekly  
    rotate 7  
    notifempty  
    delaycompression  
    Missingok  
}
```