

# Monero Node Administration & Maintenance Guide

## 1. Checking for Duplicate Files and File Usage

- **Find duplicate files by name** (search for specific file names):  
`find / -type f \( -name "output0.csv" -o -name "output1.csv" \) 2>/dev/null`
- **Check file disk usage** (with depth level, e.g., 1 for directory contents):  
`du -h --max-depth=1 /path/to/dir`

## 2. Open Ports and What Services They Listen To

- **Check for open ports and the services they listen to** (view listening ports and active connections):  
`netstat -tuln`
- **Find which services are using specific ports (e.g., port 18080):**  
`lsof -i :18080`
- **Check if specific ports are open (e.g., 18080 or 22):**  
`netstat -tuln | grep 18080`
- **List open ports with `ss` (useful alternative to `netstat`):**  
`ss -tuln`

## 3. Checking iptables and UFW Rules

### iptables Commands:

- **View iptables rules:**  
`iptables -L`
- **View specific chain rules (e.g., INPUT chain):**  
`iptables -L INPUT -n --line-numbers`

- **Show a specific port's status in iptables** (e.g., port 22 or 18080):  
`iptables -L INPUT -n --line-numbers | grep -E '22|18080'`
- **View specific rules in a named chain (e.g., `ts-input`)**:  
`iptables -L ts-input -n --line-numbers`
- **Delete an iptables rule** (e.g., delete rule number 3 in the INPUT chain):  
`iptables -D INPUT 3`
- **List all iptables rules including the ones set by UFW**:  
`iptables -L`
- **ufw (Uncomplicated Firewall)**:  
`ufw status`
- **Enable UFW**:  
`ufw enable`
- **Allow incoming traffic on port 18080** (for Monero node):  
`ufw allow 18080/tcp`
- **Check UFW status and rules**:  
`ufw status verbose`
- **Disable UFW** (if necessary):  
`ufw disable`

## 4. Network and Firewall Troubleshooting

- **Check IP routing or address information**:  
`ip a`
- **Check active connections and the state of the ports**:  
`ss-tuln`

## 5. Commands for Managing Services and Systemd

- **Check the status of a service (e.g., monerod)**:  
`systemctl status monerod`

- **Stop a service (e.g., monerod):**  
`systemctl stop monerod`
- **Start a service (e.g., monerod):**  
`systemctl start monerod`
- **Enable a service to start on boot (e.g., monerod):**  
`systemctl enable monerod`
- **Disable a service from starting on boot:**  
`systemctl disable monerod`

## 6. Mail Setup (msmtp, Mailutils)

- **Send a test email using msmtp:**  
`echo "Test email" | msmtp --debug user@example.com`
- **Check mail logs for issues** (e.g., for msmtp sending failures):  
`cat /var/log/mail.log`
- **Configure msmtp for sending emails (via SMTP):** Edit the `~/.msmtprc` file to include the email credentials and SMTP server details.

## 7. Directory and File Clean-Up

- **Remove directories and files** (e.g., remove `.bitmonero`):  
`rm -rf /path/to/directory`
- **Delete unnecessary files (e.g., log files):**  
`rm /path/to/file.log`

## 8. System Information and Disk Usage

- **Show system disk usage:**  
`df -h`
- **View detailed file sizes in directories:**  
`du -sh /path/to/directory`
- **Show the current system resource usage:**  
`top`

## 9. Miscellaneous Useful Commands

- **Check the current kernel version:**  
`uname -r`
- **Search for a specific string in files:**  
`grep "search_string" /path/to/file`
- **View the contents of a file:**  
`cat /path/to/file`

## 10. File Transfer Commands

- **Transfer files via SCP** (e.g., from your Pi to local):  
`scp root@your_pi_ip:/path/to/file /local/destination`
- **Transfer files via SCP with wildcards:**  
`scp root@your_pi_ip:/path/to/files/* /local/destination/`
- **Transfer files via SCP from Pi to Mac** (Mac uses a similar approach to Linux for SCP):  
`scp 'root@your_pi_ip:/path/to/file' ~/local/destination`  
Example:  
`scp 'root@192.168.1.155:/mnt/monero/wallets/nero*' ~/Downloads/`

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