

## TOP 50 Linux commands and tricks that are useful for DevOps tasks:

### 1. SSH Key Authentication:

```
ssh-keygen -t rsa  
ssh-copy-id user@hostname
```

### 2. File Transfer:

```
scp localfile.txt user@remote:/path
```

### 3. Text Search:

```
grep -r "pattern" /path/to/search
```

### 4. Process Management:

```
ps aux | grep process_name  
kill -9 process_id
```

### 5. System Information:

```
uname -a  
cat /etc/os-release
```

## 6. Disk Usage:

```
apt-get update  
apt-get install package_name
```

## 7. Package Management:

```
ifconfig  
netstat -tulpn
```

## 8. Network Information:

```
useradd username  
passwd username
```

## 9. User Management:

```
chmod +x filename  
chown user:group filename
```

## 10. File Permissions:

```
chmod +x filename  
chown user:group filename
```

## 11. Cron Jobs:

```
crontab -e
```

## 12. System Logs:

```
tail -f /var/log/syslog
```

## 13. SSH Tunneling:

```
ssh -L local_port:remote_host:remote_port  
user@hostname
```

## 14. Firewall Configuration:

```
ufw allow 80
```

## 15. Check Service Status:

```
systemctl status service_name
```

## 16. Create a RAM Disk:

```
mount -t tmpfs -o size=512M tmpfs  
/mnt/ramdisk
```

## 17. Environment Variables:

```
export VARIABLE=value
```

## 18. Disk Encryption:

```
cryptsetup luksFormat /dev/sdX
```

## 19. Docker Commands:

```
docker ps  
docker exec -it container_id /bin/bash
```

## 20. Check System Load:

```
Top
```

## 21. System Upgrades:

```
apt-get upgrade
```

## 22. Run a Command in the Background:

```
command &
```

## 23. List Open Ports:

```
lsof -i
```

## 24. Find and Replace in Files:

```
sed -i 's/old_text/new_text/g' filename
```

## 25. Check Available Memory:

```
free -m
```

## 26. Monitor Network Traffic:

```
tcpdump -i eth0
```

## 27. Install Nginx:

```
apt-get install nginx
```

## 28. SSH Configurations:

```
nano ~/.ssh/config
```

## 29. Generate Random Password:

```
openssl rand -base64 12
```

## 30. Archive and Compress:

```
tar -czvf archive.tar.gz /path/to/directory
```

## 31. Check System Uptime:

```
Uptime
```

### 32. Run a Command on Multiple Servers:

```
parallel-ssh -h hosts.txt -l username -i  
"command"
```

### 33. Monitor Disk I/O:

```
iostat -d 5
```

### 34. Check Kernel Version:

```
uname -r
```

### 35. Find Large Files:

```
find / -type f -size +100M
```

### 36. Install Node.js:

```
curl -sL  
https://deb.nodesource.com/setup_14.x | bash  
-  
apt-get install -y nodejs
```

### 37. Check File System Type:

```
df -Th
```

### 38. Run a Command at Regular Intervals:

```
watch -n 1 command
```

### 39. Limit CPU Usage:

```
cpulimit -e process_name -l 50
```

### 40. Install Git:

```
apt-get install git
```

### 41. Check System Architecture:

```
Arch
```

### 42. List Installed Packages:

```
dpkg -get
```

### 43. Create Symbolic Link:

```
ln -s /path/to/source /path/to/link
```

### 44. List USB Devices:

```
Lsusb
```

#### 45. List Open Files by User:

```
lsof -u username
```

#### 46. Check SELinux Status:

```
Sestatus
```

#### 47. Install Python Pip:

```
apt-get install python3-pip
```

#### 48. Check RAID Status:

```
cat /proc/mdstat
```

#### 49. Check OpenVPN Status:

```
systemctl status openvpn
```

#### 50. Check Failed Login Attempts:

```
cat /var/log/auth.log | grep "Failed  
password"
```