

## Short description

## Display / monitor cmds

**Users and Groups**

Lists users currently logged into the system  
Shows recent user login history  
resource limits  
Display current environment variables  
id info

who  
last  
ulimit -a,  
env  
id

administrative databases info  
Permissions info

getent  
getfacl

Shows who is logged in and active

w

Sudoers file  
User account info  
System-wide shell initiation

/etc/sudoers  
/etc/passwd  
/etc/profile

stores encrypted passwords  
Lists group accounts

/etc/shadow  
/etc/group

Authentication messages as failed login attempts  
login activity  
Command history of users shell sessions  
Shell script files, executed when user logs in

/var/log/auth.log Debian/ Ubuntu  
/var/log/secure CentOS  
/var/log/wtmp  
~/.bash\_history  
.bashrc and .profile,

System-wide environment variable config file

/etc/environment

**Essential Commands**

Check service status and recent logs  
CPU usage statistics  
Memory usage statistics  
System call tracing to debug program execution issues  
Versatile resource stats tool

systemctl status <service\_name>  
Mpstat  
free  
  
strace  
dstat

Shows current repository status  
Performance analysis tool e.g with traces

git status  
perf

MySQL configuration file settings  
MySQL administrative command-line tool  
Nginx server status command  
Shows commit history for repository

my.conf for mysql  
mysqladmin  
nginx -s status  
git log

System service management scripts (start, stop etc)  
System and app log files to monitor system events and errors  
Systemd journal log files

/etc/init.d/  
  
/var/log/<application>  
/var/log/journal

Contains Git-related log files  
performance analysis logs

/var/log/git  
/var/log/perf

## Operations Deployment

Displays all kernel parameters  
Shows how long system has been running  
Monitor CPU and memory usage of Linux processes  
Display current processes list  
Lists current users cron jobs

sysctl -a  
uptime  
  
top, or htop  
ps  
crontab -l

Real-time systemd journal logs  
kernel ring buffer messages

journalctl -xe  
dmesg

Displays current time zone abbreviation  
Lists PCI device information  
Displays running virtual machines  
Shows detailed VM information  
List all Vms, running and stopped

Date +%Z  
Lspci  
virsh list  
virsh dominfo  
virsh list --all

Lists running Docker containers  
Displays container resource usage  
Show logs from Docker container  
Provides detailed container information

docker ps  
docker stats  
docker logs <container\_id>  
docker inspect

Display SELinux status information  
Analyzes SELinux alert messages  
Searches audit logs for events  
Manages audit logging daemon  
Display status of cron service

sestatus  
sealert  
ausearch  
auditd  
systemctl status cron  
Package-name --version (e.g. yum  
list installed/ apt list installed)

List of installed package versions

Logs system and application messages  
System log for general messages  
Displays configured timezone

/var/log/messages  
/var/log/syslog  
cat /etc/timezone

Logs cron job execution details  
User-defined systemd configuration files

/var/log/cron  
/etc/systemd/system/

Logs detailed audit events  
Show process resource limits  
Logs QEMU VM activity  
Logs Docker daemon messages

/var/var/log/audit/audit.log  
cat /proc/<PID>/limits  
/var/log/libvirt/qemu/\*.log  
/var/log/docker.log

## Networking

Displays network interface addresses  
Displays current firewall rules  
Displays and sets hostname information  
Shows listening TCP ports with processes  
Displays current date and time

```
ip addr show
iptables -L
hostnamectl
ss -ltpn
date
```

Shows network connections and statistics  
Displays comprehensive firewall settings

```
netstat
firewalld --list-all
```

Displays current routing table  
Manages and displays date and time  
Displays current time and date settings  
Captures network traffic packets  
Displays real-time network bandwidth usage  
Monitor s network bandwidtdh usage

```
ip route show
timedatectl
timedatectl status
tcpdump
iftop
nload
```

Tracks path of packets to host

```
traceroute
```

Combines Ping and traceroute functionalities  
Queries DNS for domain information  
Queries DNS server for information  
Finds IP addresses and domain names

```
mtr
nslookup
dig
host
```

Monitors network traffic in real-time  
Show ssh daemon log entries  
Show detailed firewall settings  
Test network connectivity to a hostname

```
iptraf-ng
journalctl -u sshd
Firewall-cmd --list-all
nc <hostname>
```

Logs network-related events  
UFW firewall activity and logs  
IPTables firewall activity and events

```
var/log/network.log
/var/log/ufw.log
/var/log/iptables.log
```

SSH daemon login and security logs  
Connection tracking system logs

```
var/log/sshd.log
/var/log/conntrack.log
```

Logs DHCP server activities  
Logs firewalld daemon activity  
Logs NTP synchronization events

```
/var/log/dhcp.lo
/var/firewalld.log
/var/log/ntp.log
```

## Storage

Displays disk space usage of file systems  
Reports CPU and I/O statistics  
Reports system performance metrics  
Collects and reports system activity

```
df
iostat
Vmstat
sar
```

## Sheet1

Lists block devices and their attributes	lsblk
List disk partitions and sizes	fdisk -l
Show disk usage of files and directories	du
Displays physical volume information	pvdisk
Shows details of volume groups	vgdisplay
Lists volume groups in summary	vgs
Shows details of logical volumes	lvdisplay
Displays swap space usage	swapon -s
Displays disk usage quotas for users	quota
Manages and reports XFS disk quotas	xfs_quota
Monitors real-time disk I/O usage	iotop
Reports disk I/O statistics	diskstats
Manages and monitors RAID arrays	mdadm(mirrored raid array)
Displays RAID array status	/proc/mdstat
Configuration for disk mount	/etc/fstab
Information about system disk partitions	/proc/partitions
Current mounted file systems list	/etc/mtab
Details of currently mounted filesystems	/proc/mounts
Contains historical SAR data files	/var/log/sa/sar*