

Short description	Display / monitor cmds
Users and Groups	
Shows who is logged in and active	w
Lists users currently logged into the system	who
Shows recent user login history	last
resource limits	ulimit -a,
administrative databases info	getent
id info	id
Permissions info	getfacl
Sudoers file	/etc/sudoers
Authentication messages as failed login attempts	/var/log/auth.log Debian/ Ubuntu
login activity	/var/log/secure CentOS
Display current environment variables	/var/log/wtmp
Shell script files, executed when user logs in	env/printenv
System-wide shell initiation	.bashrc and .profile,
	/etc/profile
System-wide environment variable config file	/etc/environment
Command history of users shell sessions	~/.bash_history
User account info	/etc/passwd
stores encrypted passwords	/etc/shadow
Lists group accounts	/etc/group

Essential Commands

Check service status and recent logs	systemctl status <service_name>
CPU usage statistics	Mpstat
Memory usage statistics	free
Performance analysis tool e.g with traces	perf
System call tracing to debug program execution issues	strace
Versatile resource stats tool	dstat
MySQL configuration file settings	my.conf for mysql
MySQL administrative command-line tool	mysqladmin
Nginx server status command	nginx -s status
System service management scripts (start, stop etc)	/etc/init.d/
System and app log files to monitor system events and errors	/var/log/<application>
Systemd journal log files	/var/log/journal
performance analysis logs	/var/log/perf
Shows commit history for repository	git log
Shows current repository status	git status

Contains Git-related log files

/var/log/git

Operations Deployment

Displays current time zone abbreviation	Date +%Z
Displays configured timezone	cat /etc/timezone
Displays all kernel parameters	sysctl -a
Shows how long system has been running	uptime
Monitor CPU and memory usage of Linux processes	top
Interactive process viewer	htop
Display current processes list	ps
System log for general messages	/var/log/syslog
Logs system and application messages	/var/log/messages
kernel ring buffer messages	dmesg
Real-time systemd journal logs	journalctl -xe
Logs cron job execution details	/var/log/cron
Lists current users cron jobs	crontab -l
Display status of cron service	systemctl status cron
Show process resource limits	cat /proc/<PID>/limits
List of installed package versions	Package-name --version (e.g. yum list installed/ apt list installed)
Lists PCI device information	Lspci
Displays running virtual machines	virsh list
Shows detailed VM information	virsh dominfo
List all Vms, running and stopped	virsh list --all
Logs QEMU VM activity	/var/log/libvirt/qemu/*.log
Lists running Docker containers	docker ps
Displays container resource usage	docker stats
Show logs from Docker container	docker logs <container_id>
Logs Docker daemon messages	/var/log/docker.log
Provides detailed container information	docker inspect
Display SELinux status information	sestatus
Analyzes SELinux alert messages	sealert
Searches audit logs for events	ausearch
Manages audit logging daemon	auditd
Logs detailed audit events	/var/log/audit/audit.log

Networking

Displays network interface addresses	ip addr show
Displays current routing table	ip route show
Displays and sets hostname information	hostnamectl
Logs network-related events	var/log/network.log

Sheet1

Tests network connectivity	ping
Displays current date and time	date
Manages and displays date and time	timedatectl
Displays current time and date settings	timedatectl status
Logs NTP synchronization events	/var/log/ntp.log
Displays network interface configurations	ifconfig
Captures network traffic packets	tcpdump
Displays real-time network bandwidth usage	iftop
Monitor s network bandwidth usage	nload
Shows network connections and statistics	netstat
Displays socket statistics and connections	ss
Shows listening TCP ports with processes	ss -ltpn
Tracks path of packets to host	traceroute
Combines Ping and traceroute functionalities	mtr
Queries DNS for domain information	nslookup
Queries DNS server for information	dig
Finds IP addresses and domain names	host
Monitors network traffic in real-time	iptraf-ng
Log SSH daemon activity	var/log/sshd.log
Logs DHCP server activities	/var/log/dhcp.lo
Show ssh daemon log entries	journalctl -u sshd
Displays current firewall rules	iptables -L
Displays comprehensive firewall settings	firewalld --list-all
Show detailed firewall settings	Firewall-cmd --list-all
Logs firewalld daemon activity	/var/firewalld.log
Test network connectivity to a hostname	nc <hostname>

Storage

List disk partitions and sizes	fdisk -l
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 space usage of file systems	df
Show disk usage of files and directories	du
Displays disk usage quotas for users	quota
Manages and reports XFS disk quotas	xfs_quota
Reports system performance metrics	Vmstat
Reports CPU and I/O statistics	iostat
Collects and reports system activity	sar
Contains historical SAR data files	/var/log/sa/sar*
Monitors real-time disk I/O usage	iostat
Reports disk I/O statistics	diskstats

Sheet1

Displays RAID array status

Lists block devices and their attributes

Manages and monitors RAID arrays

/proc/mdstat

lsblk

mdadm(mirrored raid array)