MONITOR AND MANAGE LINUX PROCESSES		
DESCRIPTION	COMMANDS / OPTIONS	
Process-related information including:	Process-related information including: PID: Process ID USER: Owner of the process PR: Priority NI: Nice value VIRT: Virtual memory usage RES: Resident set size (non-swapped physical memory used) SHR: Shared memory S: Process status (S: Sleeping, R: Running, I: Idle) %CPU: Percentage of CPU usage %MEM: Percentage of memory usage TIME+: Total CPU time COMMAND: Command or process name	
Shows the state of each process	ps [options] -a List all ruining processes for all users -u Username -x View All Processes Owned By You -e Lists all processes on the entire system -O,list-fields -ao list of fields to view To see every process on the system -ef To display all processe -eF -ely To see every process on the system using BSD ax aux To print a process tree -ejH -axjf	
To find out the process IDs	pidof [options] program1s To display only one process ID of the program we have to pass -x To find the process ids of shells running the named script called bash -c pidof returns only process ids that are running with the same root directory,	

COMMANDS / OPTIONS top[options]	top[options] -n exit top com -u Specific use -d It tells delay -b Send outpu -s Use top in S -c starts top w d job to Fg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" num="" only="" p="" proce="" proce<="" th="" z=""><th>nand after N th time process me between screen updates from top to file or any other programs cure mode last closed state ></th></jobs>	nand after N th time process me between screen updates from top to file or any other programs cure mode last closed state >
-n exit top command after N th time -u Specific user process -d It tells delay time between screen updates -b Send output from top to file or any other programs -s Use top in Secure mode -c starts top with last closed state To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Sleep NUMBER[SUFFIX] s This is used for specifying seconds.	-n exit top com -u Specific use -d It tells delay -b Send outpu -s Use top in S -c starts top w d job to Fg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" cess="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" num="" only="" p="" proce="" proce<="" td="" z=""><td>process ime between screen updates rom top to file or any other programs cure mode i last closed state > > > In the programs cure mode is last closed state</td></jobs>	process ime between screen updates rom top to file or any other programs cure mode i last closed state > > > In the programs cure mode is last closed state
-u Specific user process -d It tells delay time between screen updates -b Send output from top to file or any other programs -s Use top in Secure mode -c starts top with last closed state To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -l Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Sleep NUMBER[SUFFIX] s This is used for specifying seconds.	-u Specific use -d It tells delay -b Send outpu -s Use top in S -c starts top w d job to Fg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" css="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" num="" only="" p="" proce="" proce<="" td="" z=""><td>process ime between screen updates rom top to file or any other programs cure mode i last closed state > > > In the programs cure mode is last closed state</td></jobs>	process ime between screen updates rom top to file or any other programs cure mode i last closed state > > > In the programs cure mode is last closed state
continuously refreshes at a configurable interval -d It tells delay time between screen updates -b Send output from top to file or any other programs -s Use top in Secure mode -c starts top with last closed state To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -l Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Running in the foreground on the send output from top to file or any other programs -b Send output from top to file or any other programs -b Send output from top to file or any other programs -b Send output from top to file or any other programs -b Send output from top to file or any other programs -b Send output from top to file or any other programs -s Use top in Secure mode -c starts top with last closed state To bring a background job to -s Send output from top to file or any other programs -s Use top in Secure mode -c starts top with last closed state To bring a background job so with last closed state To display the list of jobs for the shell's -s Restrict output to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Sleep NUMBER[SUFFIX] -s This is used for specifying seconds.	-d It tells delay -b Send outpu -s Use top in S -c starts top w d job to Fg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" num="" only="" p="" proce="" proce<="" td="" z=""><td>me between screen updates from top to file or any other programs cure mode last closed state Solution in addition to the normal information.</td></jobs>	me between screen updates from top to file or any other programs cure mode last closed state Solution in addition to the normal information.
configurable interval -b Send output from top to file or any other programs -s Use top in Secure mode -c starts top with last closed state To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -l Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Sleep NUMBER[SUFFIX] s This is used for specifying seconds.	-b Send output -s Use top in Street top word in Str	rom top to file or any other programs cure mode hast closed state
-s Use top in Secure mode -c starts top with last closed state To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the SINGLE PROFFICE SINGLE PROFFICE SINGLE PROFFICE -c starts top with last closed state Fig. % <jobs num=""> Ctrl + z jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Sleep NUMBER[SUFFIX] s This is used for specifying seconds.</jobs>	-s Use top in S -c starts top w d job to Fg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" css="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" num="" only="" p="" proce="" proce<="" td="" z=""><td>s IDs in addition to the normal information.</td></jobs>	s IDs in addition to the normal information.
-c starts top with last closed state To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the Stris is used for specifying seconds.	-c starts top w d job to Fg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" css="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" num="" only="" p="" proce="" proce<="" td="" z=""><td>s IDs in addition to the normal information.</td></jobs>	s IDs in addition to the normal information.
To bring a background job to the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] s This is used for specifying seconds.	bg % <jobs %<jobs="" +="" -l="" -n="" -p="" bg="" c="" cess="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" numbers="" only="" p="" proces="" td="" z="" ="" <=""><td>s IDs in addition to the normal information.</td></jobs>	s IDs in addition to the normal information.
the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] s This is used for specifying seconds.	bg % <jobs +="" -l="" -n="" -p="" c="" cess="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" numbers="" only="" p="" proce="" proce<="" td="" z=""><td>s IDs in addition to the normal information.</td></jobs>	s IDs in addition to the normal information.
the foreground background jobs To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] s This is used for specifying seconds.	bg % <jobs +="" -l="" -n="" -p="" c="" cess="" ctrl="" jobs[options]="" last="" list="" lists="" notification="" numbers="" only="" p="" proce="" proce<="" td="" z=""><td>s IDs in addition to the normal information.</td></jobs>	s IDs in addition to the normal information.
To stop running process Ctrl + z Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs Running in the foreground on the Step NUMBER[SUFFIX] s This is used for specifying seconds.	cess Ctrl + z cess Ctrl + c jobs[options] -I Lists proce -n List only p last notification -p Lists proce	s IDs in addition to the normal information.
To stop running process Ctrl + z To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] s This is used for specifying seconds.	cess Ctrl + z cess Ctrl + c jobs[options] -I Lists proce -n List only p last notification -p Lists proce	s IDs in addition to the normal information.
To close running process Ctrl + c jobs[options] -I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the Strict output seconds.	cess Ctrl + c jobs[options] -I Lists proce -n List only p obs for the shell's last notification -p Lists proce	
jobs[options]	jobs[options] -I Lists proce -n List only processions for the shell's last notification -p Lists processions.	
-I Lists process IDs in addition to the normal informationn List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] s This is used for specifying seconds.	-l Lists proce -n List only pobs for the shell's -p Lists proc	
-n List only processes that have changed status since the last notificationp Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] s This is used for specifying seconds.	obs for the shell's -n List only placed -p Lists proc	
To display the list of jobs for the shell's session -p Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the s This is used for specifying seconds.	obs for the shell's last notification observed and control of the shell observed and control observed a	.g
-p Lists process IDs only -r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the s This is used for specifying seconds.	-p Lists proc	
-r Restrict output to running jobs -s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the s This is used for specifying seconds.		ss IDs only
-s Restrict output to stopped jobs sleep NUMBER[SUFFIX] Running in the foreground on the stopped jobs This is used for specifying seconds.	L-r Restrict or	· · · · · · · · · · · · · · · · · · ·
sleep NUMBER[SUFFIX] Running in the foreground on the street This is used for specifying seconds.		0 ,
Running in the foreground on the s This is used for specifying seconds.	o Hostilet e	par to diopped jobe
Running in the foreground on the s This is used for specifying seconds.	sleep NUMBE	[SUFFIX]
, , , , , , , , , , , , , , , , , , ,		= =
poortroning reminar H Hilb is used for Specifyilia Hours		
d This is used for specifying days		
kill[options] PID		
To send any signal, not just those -I to list the names and numbers of all available signals	= - =	
signals for terminating programs9 Kill jobs by force	- I	-
	,,, ,	
To signal one or more processes that pkill [options] pattern	processes that pkill [options]	ttern
match selection criteria.	ia.	
pgrep [options] pattern	- - - - - - - - - -	
To find the PID of a process -ITo list the process names and IDs.	rncess	
-uTo specify the ID of the user who owns the processes	-uTo specif	the ID of the user who owns the processes
notine Pentienel Fair annual	makes a Parist	1 faid on coordinate of
pstree [options] [pid or username]	- - - - - - - - - -	- - ·
-a To include command line arguments in output		
-p To display PIDs		
-c To force pstree to expand identical subtrees in output		
To view a process tree for the system or -n To sort processes	·	
a single user -u To see who is the owner/user of a process		
-h To highlight the current process or any other process		· · · · · · · · · · · · · · · · · · ·
-g To show process group IDs in output	-g To show	ocess group ids in output
This command sends a [commands] &	a [commands] 8	
process/script/command to the	L	
background.		
To display the current load average. uptime	it load average. uptime	

RHCSA-I RHEL 8/9

DESCRIPTION	COMMANDS / OPTIONS
	strace
To trace running process	-c To count number of system calls
	-e To trace particular or specific system calls
	-r To print timestamp of each call
	-T To print time spent on system calls
	-t To print wall clock time of each system call
	-i To print instruction pointer
	-o To print output to a file
Execution of a program/process with	nice[options]
modified scheduling priority	-n To set the priority(n) of a process
renice[options]	
	-p Changing priority of the running process
To change and modify the scheduling	-g To change the priority of all programs of a specific
priority of an already running process	group
	-u To change the priority of all programs of a specific user