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top

El comando top es un visor de procesos en tiempo real que nos muestra información relacionada con éstos.

Funcionamiento

top realiza consultas de manera periódica del estado de los procesos del sistema, y los presenta en una visualización ordenada por columnas que nos ofrece información sobre cada uno de ellos. Esta visualización se va refrescando de manera automática cada N segundos, por lo que podemos monitorizar en tiempo real la ejecución de todos los procesos del sistema y comprobar su comportamiento. El comando top es interactivo, por lo que si queremos que finalice debemos hacerlo nosotros, presionando la tecla q. Además de la lista de procesos, top muestra en sus primeras líneas toda una serie de información relacionada con el sistema:

```
top - 16:43:56 up 7 days, 18 min, 1 user, load average: 0,08, 0,27, 0,33
Tasks: 236 total,
                  1 running, 234 sleeping,
                                               0 stopped,
                                                            1 zombie
%Cpu(s): 18,9 us,
                   5,9 sy, 0,1 ni, 72,3 id, 2,6 wa, 0,0 hi,
                                                                0.3 \, \text{si}
                                                                         0,0
st
KiB Mem :
          3928216 total,
                            621808 free,
                                          2073628 used,
                                                         1232780 buff/cache
KiB Swap: 3906556 total,
                          3045548 free,
                                           861008 used.
                                                         1280656 avail Mem
```

- up: Tiempo que lleva el sistema encendido
- users: Número de usuarios con sesión iniciada en el sistema
- load average: carga media del sistema en los últimos 1, 5 i 15 minutos
- Tasks: estadísticas de los procesos del sistema (ver estados de un proceso)
- %Cpu: estadísticas de la CPU
- Mem: información relacionada con el uso de memoria principal (RAM) (ver free)
- Swap: información relacionada con el uso de memoria virtual (SWAP) (ver free)

Justo a continuación de estas primeras líneas aparece la lista de procesos del sistema:

PID	USER	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+ COMMAND
158	root	0 -	- 20	0	0	0 I	6.0	0.0	83:32.10
kworker/0:1H-kblockd									
999	vagrant	20	0	13952	6272	4688 S	0.3	0.3	0:00.62 sshd
3556	root	20	0	0	0	0 I	0.3	0.0	0:45.51
kworker/0:0-events									
1	root	20	0	103160	12656	8348 S	0.0	0.6	0:02.35 systemd

Las columnas que muestra el comando top son personalizables, las podemos consultar apretando la tecla f

Fields Management for window 1:Def, whose current sort field is %CPU Navigate with Up/Dn, Right selects for move then <Enter> or Left commits, 'd' or <Space> toggles display, 's' sets sort. Use 'q' or <Esc> to end!

-	giossary.top		Titeps://wiki.decerodano.net/doka.pnp.na-giossary.top
	* PID = Process Id = 00MEM Score current	PGRP	= Process Group Id 00Ms
:	* USER = Effective User Name = Environment vars	TTY	= Controlling Tty ENVIRON
:	* PR = Priority	TPGID	= Tty Process Grp Id vMj
:		SID	= Session Id vMn
	= Minor Faults delta * VIRT	nTH	= Number of Threads USED
	= Res+Swap Size (KiB) * RES = Resident Size (KiB)	P	= Last Used Cpu (SMP) nsIPC
	= IPC namespace Inode		·
	* SHR = Shared Memory (KiB) = MNT namespace Inode		= CPU Time nsMNT
	* S = Process Status = NET namespace Inode	SWAP	= Swapped Size (KiB) nsNET
:	* %CPU = CPU Usage = PID namespace Inode	CODE	= Code Size (KiB) nsPID
:	* %MEM = Memory Usage (RES)	DATA	= Data+Stack (KiB) nsUSER
:	<pre>= USER namespace Inode * TIME+ = CPU Time, hundredths</pre>	nMaj	= Major Page Faults nsUTS
:	<pre>= UTS namespace Inode * COMMAND = Command Name/Line</pre>	nMin	= Minor Page Faults LXC
	= LXC container name PPID = Parent Process pid	nDRT	= Dirty Pages Count RSan
	= RES Anonymous (KiB) UID = Effective User Id	WCHAN	= Sleeping in Function RSfd
:	= RES File-based (KiB) RUID = Real User Id	Flags	= Task Flags <sched.h> RSlk</sched.h>
:	= RES Locked (KiB) RUSER = Real User Name		= Control Groups RSsh
:	= RES Shared (KiB)		·
	SUID = Saved User Id = Control Group name		= Supp Groups IDs CGNAME
	SUSER = Saved User Name = Last Used NUMA node	SUPGRPS	= Supp Groups Names NU
	GID = Group Id GROUP = Group Name	TGID 00Ma	<pre>= Thread Group Id = 00MEM Adjustment</pre>

Como podemos ver en la leyenda superior, podemos decidir qué columnas queremos mostrar en la visualización del comando top, basta con desplazarse hacia ella (siempre con las flechas de movimiento hacía arriba o abajo) y una vez encima de ella utilizar la tecla espacio para seleccionarla. Veremos que aparece un * al lado del campo seleccionado. También podemos reordenarlas. Nos colocamos sobre ella, tecleamos la flecha dcha y nos movemos - arriba y abajo - hasta la posición en la que la queremos ubicar. Una vez allí tecleamos flecha izda y la columna quedará en esa posición. Si queremos indicar el criterio de ordenación de la visualización de top nos posicionamos sobre el campo deseado y tecleamos s para establecer el criterio de ordenación

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Opciones

El comando top dispone también de una serie de opciones para utilizar en su ejecución. Algunas de las más usadas se describen a continuación:

- -b: batch mode útil si queremos enviar la información de top a un fichero de salida
- -d: tiempo de actualización.
- -n: número de repeticiones del comando.
- -o: permite definir la columna de ordenación de los datos mostrados (se puede acompañar de un + o un delante del valor, para indicar el sentido de ordenación).
- -O: muestra una lista de todos los valores posibles para la opción -o.
- -p: permite monitorizar el/los procesos indicados (separados por comas).
- -u: procesos de un usuario concreto.

A parte de la opciones del comando para su ejecución, top también dispone de una serie de opciones de interacción durante su ejecución:

- c: muestra el comando que provocó el inicio del proceso.
- f: muestra la pantalla de selección y ordenación de campos.
- h: mostrar ayuda.
- i: muestra solo los procesos activos.
- k: indica el PID del proceso que queremos finalizar.
- n: limita el número de procesos que se muestran.
- o: aplicar filtros a la visualización de procesos (el formato sería CAMPO[<|>|=]VALOR)
- q: salir.
- u: filtrar los procesos de un usuario
- W: guarda las modificaciones realizadas.
- z: muestra la salida coloreada.

top también dispone de opciones de ordenación de manera interactiva:

- M: uso de memoria
- N: número de proceso
- P: tiempo de CPU (default)
- R: invierte el orden de la visualización
- T: tiempo de ejecución

Ejemplos

Ejemplo 1

Mostrar la lista de procesos del sistema, mostrando los campos RUSER, PID, PPID, PR, %CPU, %MEM, TTY, COMMAND (en este orden) y ordenados por el consumo de memoria.

```
$ top ### Una vez en ejecución pulsamos la tecla ''f''
Fields Management for window 1:Def, whose current sort field is %CPU
Navigate with Up/Dn, Right selects for move then <Enter> or Left commits,
  'd' or <Space> toggles display, 's' sets sort. Use 'q' or <Esc> to end!
* RUSER = Real User Name GROUP = Group Name OOMs
```

= 00MEM Score current PID = Process Id PGRP = Process Group Id ENVIRON Environment vars PPID = Parent Process pid TPGID = Tty Process Grp Id VMj Major Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn Minor Faults delta PR = Priority SID = Session Id VMn PR = Priority Page Cpu (SMP) nsIPC PR = CPU Time Name SID = Priority Page Size (KiB) nsNET PR = Priority SID = Priority Page Size (KiB) nsUF = Dirty Page Count Page Faults PR = Priority Page Priority						
= Environment vars PPID = Parent Process pid			2022			510 (TD 01)
* PPID = Parent Process pid			PGRP	=	Process Group Id	ENVIRON
= Major Faults delta * PR = Priority			TDCTD	_	Thy Dracocc Crn Id	vM÷
* PR		•	IPGID	=	ity Process Grp 1d	VIMIJ
= Minor Faults delta * %CPU = CPU Usage		-	STD	_	Session Id	vMn
* %CPU = CPU Usage		•	310		JC331011 1U	VIIII
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* TTY = Controlling Tty					,	
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Ejmeplo 2

Muestra los procesos de un único usuario, ordenados por el consumo de CPU que realizan

```
$ top -u linux -o %CPU.
top - 10:40:37 up 9:19, 2 users, load average: 0.00, 0.00, 0.00
Tasks: 163 total, 1 running, 127 sleeping,
                                              0 stopped,
%Cpu(s): 0.3 us, 2.0 sy, 0.0 ni, 97.3 id, 0.0 wa, 0.0 hi, 0.3 si,
                                                                          0.0
st
KiB Mem :
           4039732 total,
                           1072572 free,
                                           446704 used,
                                                         2520456 buff/cache
          1942896 total, 1942896 free,
KiB Swap:
                                                0 used.
                                                         3302884 avail Mem
  PID USER
                PR
                          VIRT
                                         SHR S %CPU %MEM
                                                              TIME+ COMMAND
                    ΝI
                                  RES
11249 linux
                20
                        110076
                                 3500
                                        2476 S
                                                1.3
                                                     0.1
                                                           0:00.12 sshd
                     0
11268 linux
                20
                     0
                         20884
                                 4080
                                        3768 S
                                                1.3
                                                     0.1
                                                           0:00.08 nsnake
11105 linux
                20
                     0
                         76904
                                 8808
                                        6824 S
                                                0.0
                                                     0.2
                                                           0:00.01 systemd
11106 linux
                                                           0:00.00 \text{ (sd-pam)}
                20
                     0
                        196244
                                 2956
                                          16 S
                                                0.0
                                                     0.1
11250 linux
                20
                                        3496 S
                                                0.0
                                                     0.1
                                                           0:00.03 bash
                     0
                         29916
                                 5224
11258 linux
                20
                     0
                         14576
                                  828
                                        764 S
                                                0.0
                                                     0.0
                                                           0:00.00 sleep
11267 linux
                20
                     0
                         14620
                                  836
                                         772 S
                                                0.0
                                                     0.0
                                                           0:00.00 dd
```

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