# [Fort]Práctica 3: Securizando Aplicaciones

## 1. Abre un navegador y realiza una descarga

#### Revisa con el TOP el consumo de CPU

Firefox (Proceso 110216) está consumiendo en torno al 60% de la CPU como podemos ver en la siguiente captura:

Si	siguiente captura:													
	0	O Terminal									$\odot \odot \otimes$			
	File Edit View Search Terminal Help													
	top - 15:04:06 up 41 min, 1 user, load average: 4.78, 3.12, 2.14												^	
	Tasks: 148 total, 2 running, 146 sleeping, 0 stopped, 0 zombie													
	%Cpu(s):	65.	6 us, 22.	2 sy	, 0.0 r	ni, 0.0	) id, (	0.0	wa,	0.0 hi	, 12.3 si,	0.0 st		
	MiB Mem	:	1967.3 to	tal,	71	.2 free	, 1014	4.1	used,	1062	2.3 buff/d	ache		
	MiB Swap	o:	1907.0 to	tal,	1906	.7 free	, (	0.3	used.	953	3.1 avail	Mem		
	PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND		
	110216	root	20	0	10.9g	395120	166124	S	54.8	19.6	0:31.64	firefox+		
	855	root	20	0	448832	128244	66820	S	5.3	6.4	1:00.46	Xorg		
	1139	root	20	0	9612	4972	4112	S	3.0	0.2	3:07.68	dbus-da+		
	14	root	20	0	0	0	0	S	1.3	0.0	0:05.68	ksoftir+		
	1260			0	492548				1.0	2.4	0:06.62			
	74216			0	0	0		Ι	1.0	0.0		kworker+		
	1140			0	268132				0.7	1.3		x-sessi+		
	125811			0	83060	18852			0.7	0.9	0:00.02	_		
	38	root	20	0	0	0		S	0.3	0.0	0:00.01	•		
		root		0	243012		8584		0.3	0.6		gnome-k+		
		root		0	229412				0.3	0.1		VBoxCli+		
	1238	root	20	0	9120				0.3	0.2	0:23.16	dbus-da+		
	1254	root	20	0	164388	9960	7084	S	0.3	0.5		at-spi2+		
	1261	root	20	0	240748	11612	6688	S	0.3	0.6	0:15.01	_		
		root		0	500196				0.3	1.7		wnck-ap+		
		root		0	354844				0.3	0.7		gvfs-ud+		
	1325	root	20	0	315784	12104	6872	S	0.3	0.6	0:14.22	gvfs-af+	¥	

### Usa cpulimit para reducir el consumo de CPU a 1/5 del que usa

Para realizar esto ejecutaremos los siguientes comandos:

```
cd /sys/fs/cgroup/
mkdir firefox #Creamos el cgroup para firefox
cd firefox
```

root@fso2025:~/Downloads# cd /sys/fs/cgroup/ root@fso2025:/sys/fs/cgroup# mkdir firefox root@fso2025:/sys/fs/cgroup# cd firefox/ root@fso2025:/sys/fs/cgroup/firefox# ls cgroup.controllers cpuset.cpus.effective memory.min cgroup.events cpuset.cpus.partition memory.numa\_stat cgroup.freeze cpuset.mems memory.oom.group cgroup.kill cpuset.mems.effective memory.peak cgroup.max.depth cpu.stat memory.pressure cgroup.max.descendants cpu.weight memory.reclaim cgroup.pressure cpu.weight.nice memory.stat cgroup.procs io.max memory.swap.current io.pressure cgroup.stat memory.swap.events io.stat cgroup.subtree\_control memory.swap.high cgroup.threads io.weight memory.swap.max cgroup.type memory.current memory.zswap.current cpu.idle memory.events memory.zswap.max memory.events.local pids.current cpu.max cpu.max.burst memory.high pids.events memory.low pids.max cpu.pressure pids.peak cpuset.cpus memory.max root@fso2025:/sys/fs/cgroup/firefox#

Tras eso añadimos firefox al cgroup y procedemos a limitar su consumo de CPU

echo 110216 > cgroup.procs#Metemos el proceso de firefox en el cgroup echo 200000 1000000 > cpu.max #Limitamos el uso de CPU al 20%

root@fso2025:/sys/fs/cgroup/firefox# echo 110216 > cgroup.procs
root@fso2025:/sys/fs/cgroup/firefox# echo 200000 1000000 > cpu.max
root@fso2025:/sys/fs/cgroup/firefox#

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