LVM: Extend SWAP size by

adding a new Logical Volume

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LVM: Extend SWAP size by adding a new Logical Volume

# Tested on RHEL 5, 6 &	د 7
# Adding a file to swap focus on adding a LV	space is not a common operation so we will
# Check current swap vo	olume(s) and its size
root@ <server>:/#> cat /</server>	'etc/fstab grep swap
/dev/rvg/swaplv	swap swap
defaults 00	
root@ <server>:/#> lvdis</server>	splay /dev/rvg/swaplv
Logical volume	
LV Name	/dev/rvg/swaplv
VG Name	rvg
LV UUID	m0EThc-4Epd-Ecj3-lvPK-BfU0-D98H-1pgyRY
LV Write Access	read/write
LV Status	available
# open	1
LV Size	13.69 GB
Current LE	438
Segments	1
Allocation	inherit
Read ahead sectors	auto

- currently set to 256 Block device 253:5 root@<server>:/#> free -m total used free shared buffers cached 6682 0 422 Mem: 11239 4556 3697 -/+ buffers/cache: 436 10802 14015 0 Swap: 14015 <---root@<server>:/#> cat /proc/swaps Type Size Filename Used Priority /dev/mapper/rvg-swaplv partition 14352376 0 -3 # Create a new Logical Volume, preferably on system VG, that will be dedicated to swap space # We will extend swap by adding a 1 GB Logical Volume # Verify that there is enough space on VG root@<server>:/#> vgdisplay /dev/rvg --- Volume group ---VG Name rvg System ID Format lvm2 Metadata Areas 1 Metadata Sequence No 23 read/write VG Access

	VG Status	resizable
	MAX LV	0
	Cur LV	6
	Open LV	6
	Max PV	0
	Cur PV	1
	Act PV	1
	VG Size	136.50 GB
	PE Size	32.00 MB
	Total PE	4368
	Alloc PE / Size	1718 / 53.69 GB
	Free PE / Size	2650 / 82.81
GB <		
	VG UUID	2TkcmU-Uzys-Znql-aXqx-pr2D-08dk-oWsOlL
#	Create new LV	
r	oot@ <server>:/#> lvcrea</server>	ate -L 1GB -n newswaplv rvg
	Logical volume "newswa	aplv" created
#	Check LV	
root@ <server>:/#> lvdisplay /dev/rvg/newswaplv</server>		
	Logical volume	
	LV Name	/dev/rvg/newswaplv
	VG Name	rvg
	LV UUID	gilqR-kRMj-vMnJ-VCH3-N0gh-UxoG-AWX6Xu
	LV Write Access	read/write
	LV Status	available
	# open	0
	LV Size	1.00 GB
	Current LE	32
	Segments	1
	Allocation	inherit
	Read ahead sectors	auto
	- currently set to	256

```
Block device 253:6
# Set up the new swap area
root@<server>:/#> mkswap /dev/rvg/newswaplv
Setting up swapspace version 1, size = 1073737 kB
# Enable swapping on new LV
root@<server>:/#> swapon /dev/rvg/newswaplv
# Check final size and partitions being used by swap
root@<server>:/#> free
        total used free shared buffers
cached
Mem: 11508864 4664996 6843868 0 432464
3786168
-/+ buffers/cache: 446364 11062500
                  0
Swap: 15400944
15400944
                                      <----
root@<server>:/#> cat /proc/swaps
                                Type Size
Filename
Used Priority
/dev/mapper/rvg-swaplv
                                partition
                                             14352376
0 -5
/dev/mapper/rvg-newswaplv partition 1048568
0 -6 <----
```

Add following line to /etc/fstab for the LV to be automatically
mounted as swap
during system startup
/dev/rvg/newswaplv swap swap
defaults 0 0

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