**Technote to Add additional Swap**

**=========Add swap in Linux===========**

1. **Add using file**

Type the following command to create 512MB swap file (1024 \* 512MB = 524288 block size)

# dd if=/dev/zero of=/swapfile1 bs=1024 count=524288

# mkswap /swapfile1

# chown root:root /swapfile1

# chmod 0600 /swapfile1

# swapon /swapfile1

# vi /etc/fstab

/swapfile1 swap swap defaults 0 0

$ free -m

# swapon -s

/swapfile1 swap swap defaults 0 0

if=/dev/zero : Read from /dev/zero file. /dev/zero is a special file in that provides as many null characters to build storage file called /swapfile1.

of=/swapfile1 : Read from /dev/zero write storage file to /swapfile1.

bs=1024 : Read and write 1024 BYTES bytes at a time.

count=524288 : Copy only 523288 BLOCKS input blocks.

if=/dev/zero of=/disk1 bs=1024 count=20480

1. **Add from disk partition**

# mkswap /dev/sdc1

# swapon /dev/sdc1

# cat /etc/fstab

/dev/sdc1 swap swap defaults 0 0

1. **Add swap from LVM**

Assume we have VG name as vg01 and has enough space

# lvcreate vg01 -n swaplv -L 2g

Format swap volume

# mkswap /dev/vg01/swaplv

#swapon /dev/vg01/swaplv

Add the newly created Swap volume to fstab

#cat /etc/fstab

/dev/vg02/swaplv swap swap defaults 0 0

Online the swap size

# swapon /dev/vg02/swaplv

**=====Add swap solaris=============**

1. **Add swap from file**

# mkfile 20m /usr/local/swap/swapfile

# swap -a /usr/local/swap/swapfile

# vi /etc/vfstab

/usr/local/swap/swapfile - - swap - no -

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1. Add/Create new swap raw swap partition on addition disk and add as swap

# vi /etc/vfstab

/dev/dsk/c1d0s1 - - swap - no -

# swap -a /dev/dsk/c1d0s1

Removing Swap Slices

# swap -d /dev/dsk/c1d0s1

# swap -d /usr/local/swap/swapfile

####If the current swap area is not in use, you can resize the size of the current swap volume, but you must reboot the system to see the increased swap space.

1. **Add Swap from metadevice**

Assume we have free slice on c1t2d0s5 with 2g size

#metainit d45 /dev/dsk/c1t2d0s5

# vi /etc/vfstab

/dev/md/d45 - - swap - no -

# swap -a /dev/md/d45

1. **Add swap from zpool/rpool**

# zfs get volsize rpool/swap

# zfs set volsize=2g rpool/swap

###If the system cannot be rebooted, add another swap volume to increase your total swap space.

# zfs create -V 2G rpool/swap2

# swap -a /dev/zvol/dsk/rpool/swap2