

# Creating Swap Space on the Omega

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This document is a quick guide to setting up your Omega to have swap space using a USB drive to effectively provide usable additional Ram.

## **1. Create a swap partition on your USB drive**

The tool you use to do this depends upon the OS you are using. I use the **KDE Partition Manager** under **KUbuntu 14.4**

You will need to create a partition with:

- Type: **linuxswap**
- Size: whatever you want and have available – I am using a 32GByte USB drive and set the size to 1GByte

If you are already using your USB drive to extend your Omega disk space using the instructions in <https://wiki.onion.io/Tutorials/Using-USB-Storage-as-Rootfs> be careful not to disturb it – you may be able to resize any existing partition using the partition manager

You will need to note the partition number of the swap partition you created.

On my USB drive I have:

- Partition 1: Type:ext4 Name:OmegaOverlay – used for Omega overlay space as in <https://wiki.onion.io/Tutorials/Using-USB-Storage-as-Rootfs>
- Partition 2: Type:linuxswap – my swap space

## **2. Accessing the swap partition on your Omega**

- a. Plug your USB drive into your Omega and boot your Omega
- b. Run the command:

**block detect**

On your Omega and note or save the output.

In my case, this gives:

```
config 'global'
  option anon_swap      '0'
  option anon_mount     '0'
  option auto_swap      '1'
  option auto_mount     '1'
  option delay_root     '5'
  option check_fs       '0'

config 'mount'
  option target         '/mnt/sda1'
  option uuid           '914a1370-a5b5-4519-8279-1e21ae6db9d6'
  option enabled        '0'
```

```
config 'swap'
  option uuid 'f101005b-ead3-40ff-82ad-b2778bb57cdb'
  option enabled '0'
```

Notes:

- The **uuid** values will be different for you.
- The section **config 'swap'** relates to the **linuxswap** partition
- The section **config 'mount'** relates to my overlay partition

c. Edit your **/etc/config/fstab** to add the **config 'swap'** section with the following changes:

- Add the line:  
**option device '/sda2'**  
changing the **'/sda2'** to reflect the partition number of your **linuxswap** partition
- Change:  
**option enabled '0'**  
to:  
**option enabled '1'**

The relevant part of **/etc/config/fstab** should now look something like:

```
config 'swap'
  option device '/sda2'
  option uuid 'f101005b-ead3-40ff-82ad-b2778bb57cdb'
  option enabled '1'
```

3. Checking that swap space is now operative

- a. Reboot your Omega
- b. Run the command:

**free**

This should show something like:

	total	used	free	shared
buffers				
Mem:	61176	30500	30676	92
3680				
-/+ buffers:		26820	34356	
Swap:	1044220	0	1044220	

Where the values against the **Swap:** line indicate the **total**, **used** and **free** swap space (values are in Kbytes) – normally all zero when there is no swap space