

OpenSquidBox - Step by Step Installation

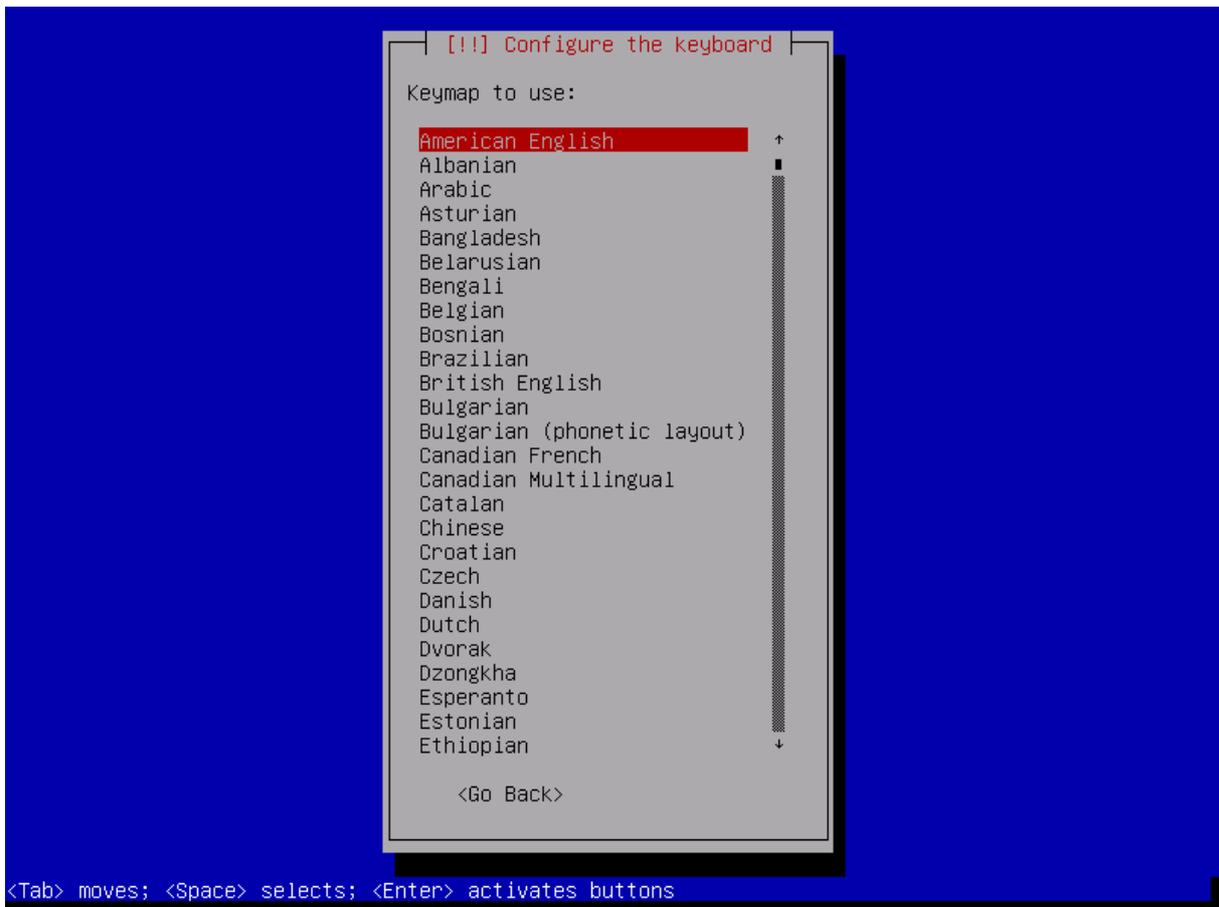
1. Download the latest **OpenSquidBox (OSB)** 64 bits ISO file <http://osb.unveiltech.com/>
2. Transfer your ISO file to a CDROM or to a bootable USB stick. See instruction on how to create a bootable USB drive if needed.
3. On your appliance (PC/Server/Virtual Machine) (see technical requirements) boot from the CDROM or USB stick (Bios menu to select boot drive)

You should get the following screen after booting. Choose the installation mode (graphic or text). Text mode is usually faster.



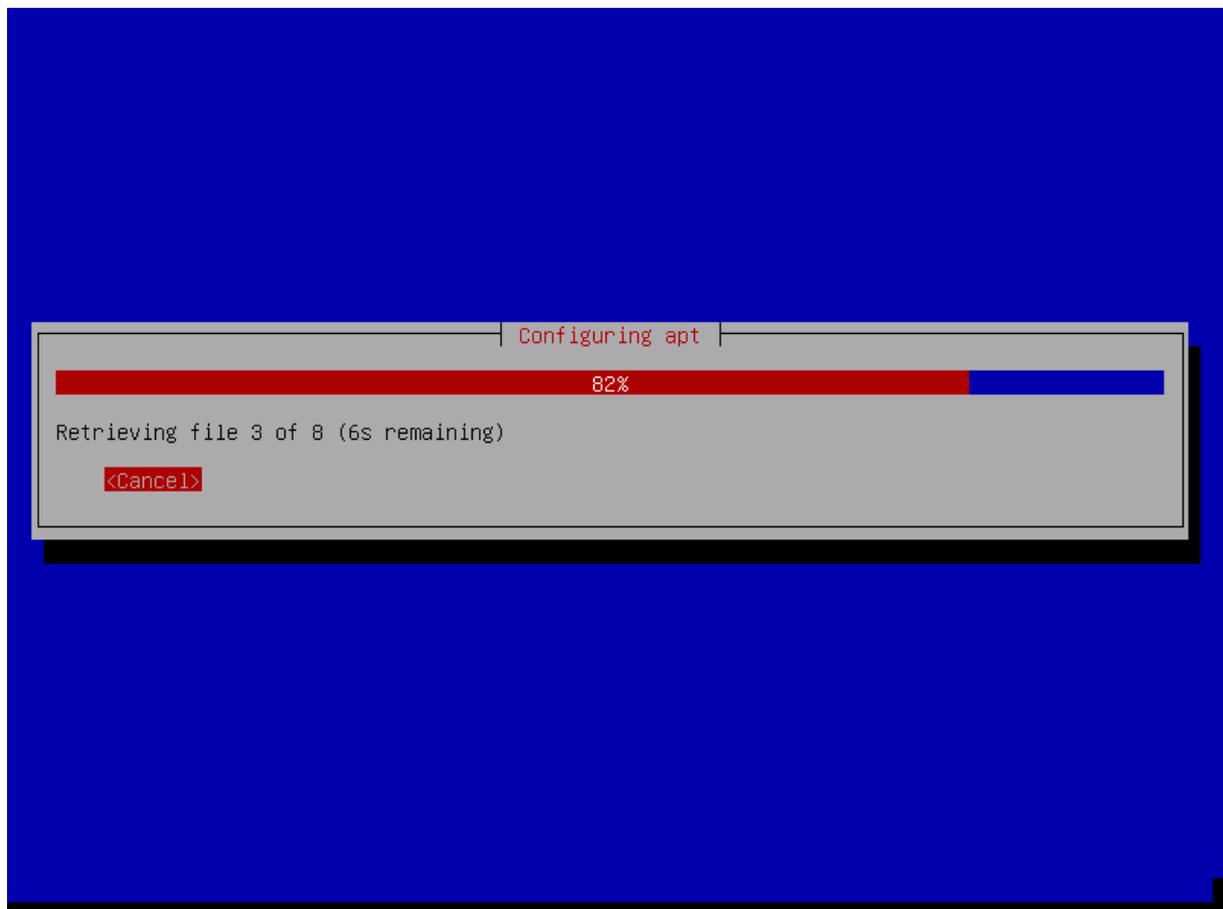
If your hardware is compliant with the technical requirement (64bits) then after few seconds you should get the following screen. If not then please try it on another hardware.

4. Select your language from the list

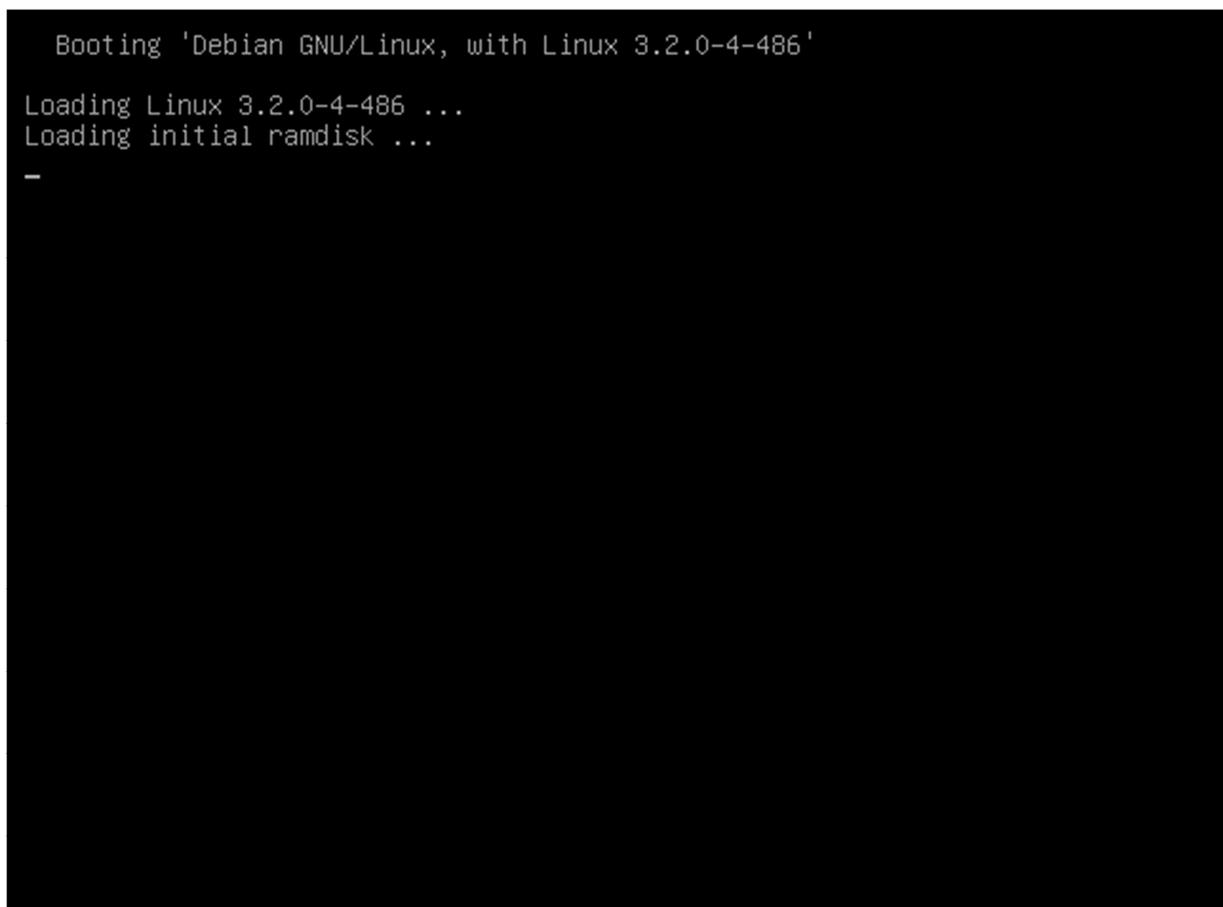


5. From this point, it will automatically install on your Pc/Server hard drive all necessary files including Linux OS and **OpenSquidBox** software appliance. Make sure to get Internet access in order for the installation program to download all necessary binaries from Linux Servers.





6. When all files will be copied and downloaded from Internet onto your hard drive, the installation is almost finished and your appliance will automatically reboot to terminate the installation process.



7. A second automatic reboot is required at the end of this step. The installation is then finished

```
[warn] Stopping DNS forwarder and DHCP server: dnsmasq[...] (not running) ... (
warning).
[ ok ] Asking all remaining processes to terminate...done.
[ ok ] All processes ended within 1 seconds...done.
[ ok ] Stopping enhanced syslogd: rsyslogd already stopped.
rpcbind: rpcbind terminating on signal. Restart with "rpcbind -w"
[ ok ] Stopping rpcbind daemon...
[ ok ] Stopping NFS common utilities: idmapd statd.
[...] Deconfiguring network interfaces...Internet Systems Consortium DHCP Client 4.2.2
Copyright 2004-2011 Internet Systems Consortium.
All rights reserved.
For info, please visit https://www.isc.org/software/dhcp/

Listening on LPF/eth0/00:0c:29:b3:68:66
Sending on LPF/eth0/00:0c:29:b3:68:66
Sending on Socket/fallback
DHCPRELEASE on eth0 to 192.168.127.254 port 67
done.
[info] Saving the system clock.
[info] Hardware Clock updated to Thu Mar 26 18:20:09 CET 2015.
[ ok ] Deactivating swap...done.
[info] Will now restart.
[ 12.851587] Restarting system.
```

8. The second reboot will then start the **OpenSquidBox** software appliance automatically – Below is the boot menu that will start your **OpenSquidBox** after few seconds

```
GNU GRUB version 1.99-27+deb7u2

Debian GNU/Linux, with Linux 3.2.0-4-486
Debian GNU/Linux, with Linux 3.2.0-4-486 (recovery mode)

Use the ↑ and ↓ keys to select which entry is highlighted.
Press enter to boot the selected OS, 'e' to edit the commands
before booting or 'c' for a command-line.
The highlighted entry will be executed automatically in 2s.
```

9. When starting, your **OpenSquidBox** will display the following messages. These are just informational messages and should be ignored.

```
:00:07.3: Host SMBus controller not enabled?
done.
[ 2.474311] Error: Driver 'pcspkr' is already registered, aborting...
[ ok ] Waiting for /dev to be fully populated...done.
[ ok ] Activating swap...done.
[... ] Checking root file system...fsck from util-linux 2.20.1
/dev/sda1: clean, 28806/1256640 files, 326175/5016832 blocks
done.
[warn] Creating compatibility symlink from /etc/mtab to /proc/mounts. ... (warni
ng).
[info] Loading kernel module loop.
[ ok ] Cleaning up temporary files... /tmp.
[ ok ] Activating lvm and md swap...done.
[... ] Checking file systems...fsck from util-linux 2.20.1
done.
[ ok ] Mounting local filesystems...done.
[ ok ] Activating swapfile swap...done.
[ ok ] Cleaning up temporary files...
[ ok ] Setting kernel variables ...done.
[ ok ] Configuring network interfaces...done.
[ ok ] Starting rpcbind daemon...
[ ok ] Starting NFS common utilities: statd idmapd.
[ ok ] Cleaning up temporary files...
[ ok ] Setting sensors limits.
[... ] Starting VideoCacheBox Binary Installation... (Next reboot is normal).:_
```

10. The **OpenSquidBox** initialization (screen below) may take a while (several seconds to few minutes) to calculate your best DNS settings. Make sure your appliance is able to access Internet here otherwise it won't be able to go further.

```
done.
[ ok ] Mounting local filesystems...done.
[ ok ] Activating swapfile swap...done.
[ ok ] Cleaning up temporary files...
[ ok ] Setting kernel variables ...done.
[ ok ] Configuring network interfaces...done.
[ ok ] Starting rpcbind daemon...
[ ok ] Starting NFS common utilities: statd idmapd.
[ ok ] Cleaning up temporary files...
[ ok ] Setting sensors limits.
INIT: Entering runlevel: 2
[info] Using makefile-style concurrent boot in runlevel 2.
[ ok ] Starting NFS common utilities: statd idmapd.
[ ok ] Starting rpcbind daemon...[... ] Already running..
[ ok ] Starting enhanced syslogd: rsyslogd.
[ ok ] Starting ACPI services...
[ ok ] Starting deferred execution scheduler: atd.
[ ok ] Starting DNS forwarder and DHCP server: dnsmasq.
[ ok ] Starting periodic command scheduler: cron.
[ ok ] Starting MTA: exim4.
[ ok ] Starting mpt-status monitor: mpt-statusd.
Starting nginx: nginx.
[ ok ] Starting NTP server: ntpd.
[ ok ] Starting OpenSquidBox Initialization, please wait...:.
[... ] Applying the OpenSquidBox Optimization, please wait...:_
```

11. When the **OpenSquidBox** is running, it displays the following information. Showing you the username and password (**root**, **unveiltech**) to get full access to your **OpenSquidBox**.

```
Unveil Technology OpenSquidBox
- Account is      : root
- Password is    : unveiltech
-----
- Squid direct port      : 3128
- Squid transparent port: 3129
- Squid ICP port        : 3130
-----
- Web Console   : http://box-ip:81
- Realtime Logs: php /opt/opensquidbox/api-realtimecache.php
-----
- Squid installation:
  Binaries are located in /usr/local/squid3
  Settings are located in /etc/squid3
  Log files in /var/log/squid3
  Cache folder is in /var/spool/squid3

Enjoy :o)
Unveil Technology
www.unveiltech.com
support@unveiltech.com

opensquidbox login: _
```

12. If you want to make settings from our nice Graphical Web Console, type on your PC's browser the IP address of your OSB to log onto the web console (e.g. 192.168.127.127:81). To display your **OpenSquidBox** IP address go on the Linux console (screen above) and log-in to type the following command line "ifconfig". Below is the Graphical Web Console. ENJOY !!!

The screenshot displays the Unveil SmartCache OpenSquidBox graphical web console. At the top, the Unveil Technology logo is on the left, and 'All Products | Support' is on the right. The main title 'SmartCache OpenSquidBox' is prominently displayed. To the right of the title, system details are shown: Core Engine: 1.0510, Squid Cache: 3.5.1, and Core Optimization: 2015/04/02. A 'Settings...' button is located to the right of these details.

The 'System Information' section provides hardware and system details:

- VMware, Inc. VMware Virtual Platform/440BX Desktop Reference Platform, BIOS 6.00 07/31/2013
- Intel(R) Core(TM) i7 CPU M 620 @ 2.67GHz
- Uptime: 0 days, 0 hours, 10 minutes
- Total Disk: 18.84 GB
- Total Memory: 0.48 GB
- Free Memory: 0.19 GB
- Load Average: 0.14

Performance metrics are listed on the right:

- Core Optimization: 0.00 msec/req
- Cache Optimization: 0 msec/req
- Maximum Users: 0
- Bandwidth: 0.000 Mbps
- Rate Rx/Tx: 0.00
- Requests/sec: 0.000
- Avg. Object Size: 0.00 KB

The 'Performances Dashboard' features five gauges:

- Saved Bandwidth: 0%
- Requests from Cache: 0%
- Used Disk Space: 0%
- Used Memory: 61%
- Used CPU: 1.3%

13. Below are the different settings possibilities.

The screenshot shows the 'Settings' page for 'SmartCache OpenSquidBox'. At the top, there's a navigation bar with 'Unveil Technology' logo and 'All Products | Support'. Below the logo, the version information is displayed: 'Core Engine: 1.0510', 'Squid Cache: 3.5.1', and 'Core Optimization: 2015/04/02'. A 'Settings...' button is visible in the top right. The main content area is titled 'Settings' and has two tabs: 'Internet Optimization' and 'Advanced'. The 'Advanced' tab is selected, showing 'Videos, Music, Images, Libraries and CDNs Optimization (Core Optimization)'. A slider for 'Core Optimization' is set to 'Enabled'. Below this, there's a description of 'Core Optimization' and a link to 'List of Supported Websites'. A section for 'Maximum Cache Expiration' is set to '30 Day(s)' with a slider. At the bottom, there's a field for 'Your Activation Code' with a placeholder 'AAAAA-BBBBBB-CCCCCC-DDDDD-EEEEEE' and buttons for 'Buy an Activation Code...', 'Save and Apply Now', and 'Save and Apply Now'.

The screenshot shows the 'Settings' page for 'SmartCache OpenSquidBox' with the 'Advanced' tab selected. It displays four settings sections: 'DNS Mismatch' (Disabled), 'Quality of Service' (Enabled), 'Partial Contents' (Disabled), and 'Proxy Cache Chaining' (Disabled). Each section includes a brief description of the feature and a 'Save and Apply Now' button. The 'Quality of Service' section has a dropdown menu for 'Marker for Cached objects (HIT)' set to 'DSCP: 12 - QoS: 0x30'. The 'Proxy Cache Chaining' section includes a table for adding servers:

| IP Address or Hostname | HTTP Port | ICP Port | Sibling |
|---|-----------------------------------|-----------------------------------|--------------------------|
| <input type="text" value="IP Address or Hostname"/> | <input type="text" value="Port"/> | <input type="text" value="Port"/> | <input type="checkbox"/> |

Feel free to change/modify or improve the product and to share it with us to help other benefit for this **Open Source** product.