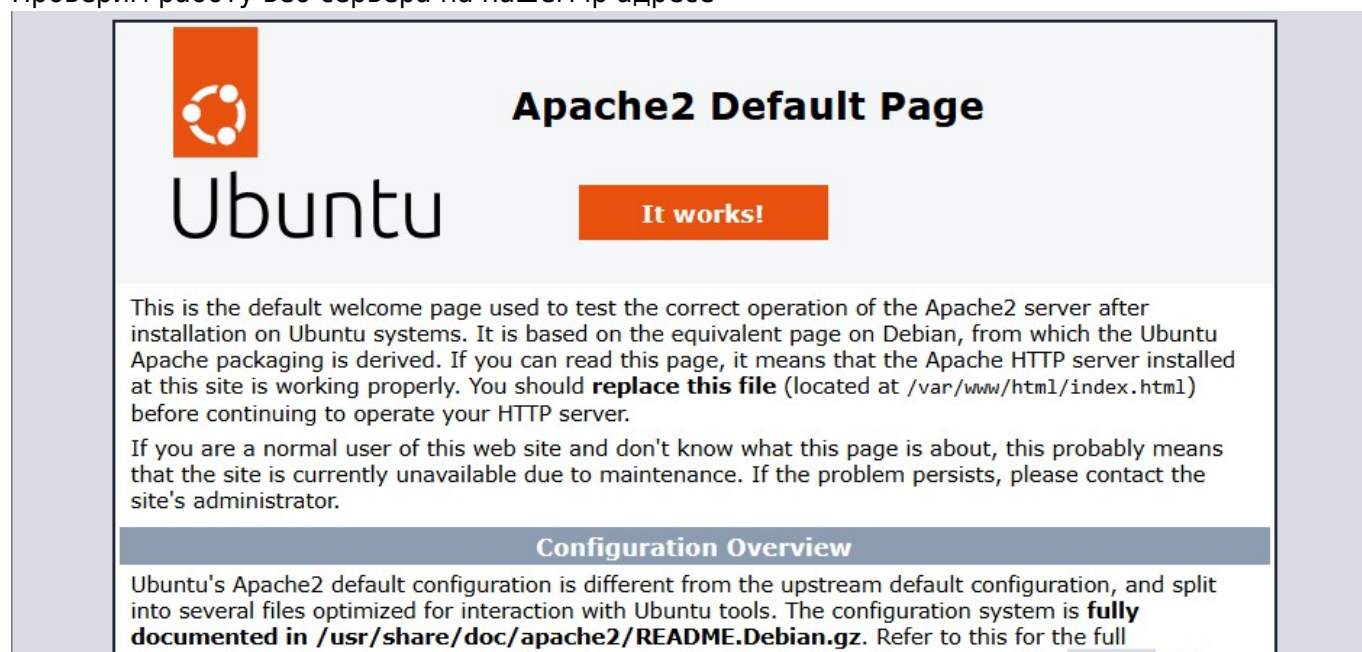


Создание локального зеркала репозитариев Linux

Предполагается что у вас установлено следующее ПО:

- [Ubuntu server](#)
- [Apache HTTP Server](#)
- [PHP-модуль](#)
- [Настроен брандмауэр](#)

Проверим работу веб сервера на нашем ip адресе



Если это не так... 1. Устанавливаем Apache

```
sudo apt install apache2
```

и PHP-модуль.

```
sudo apt update
```

```
sudo apt install php libapache2-mod-php
```

затем перезагрузите веб-сервер, чтобы перезапустить модуль PHP.

```
sudo service apache2 restart
```

Выполните проверку.

```
php -v
```

Переходим в папку `www/html`

```
cd /var/www/html
```

```
alisa@repo:~$ cd /var/www/html  
alisa@repo:/var/www/html$
```

Смотрим что есть в директории

```
ls -n
```

```
alisa@repo:/var/www/html$ ls -n  
total 12  
-rw-r--r-- 1 0 0 10672 Mar  1 12:12 index.html  
alisa@repo:/var/www/html$
```

удаляем файл index.html

```
sudo rm index.html
```

```
alisa@repo:/var/www/html$ sudo rm index.html  
alisa@repo:/var/www/html$
```

проверяем выполнение команды удаления

```
ls -n
```

```
alisa@repo:/var/www/html$ ls -n  
total 0  
alisa@repo:/var/www/html$
```

Изменяем права папки html с root на alisa

```
sudo chown -R root:alisa /var/www/html  
sudo chmod -R 571 /var/www/html
```

```
alisa@repo:/var/www/html$ sudo chown -R root:alisa /var/www/html  
sudo chmod -R 571 /var/www/html  
alisa@repo:/var/www/html$
```

Создаем необходимые на наше усмотрение папки

```
sudo mkdir /var/www/html  
sudo mkdir /var/www/html/debian  
sudo mkdir /var/www/html/gcc  
sudo mkdir /var/www/html/git  
sudo mkdir /var/www/html/gnu  
sudo mkdir /var/www/html/kde  
sudo mkdir /var/www/html/lfs  
sudo mkdir /var/www/html/linux_kernel  
sudo mkdir /var/www/html/mariadb  
sudo mkdir /var/www/html/openstreetmap  
sudo mkdir /var/www/html/raspbian  
sudo mkdir /var/www/html/sourceware  
sudo mkdir /var/www/html/ubuntu  
sudo mkdir /var/www/html/ubuntu_kernel  
sudo mkdir /var/www/html/unix
```

и вспомогательные папки для ключей и скриптов

```
sudo mkdir /home/alisa/repo
sudo mkdir /home/alisa/repo/keyring
sudo mkdir /home/alisa/repo/scripts
```

```
alisa@repo:/var/www/html$ sudo mkdir /home/alisa/repo
sudo mkdir /home/alisa/repo/keyring
sudo mkdir /home/alisa/repo/scripts
alisa@repo:/var/www/html$
```

Изменяем права папки html с root на alisa

```
sudo chown -R root:alisa /home/alisa/repo
sudo chmod -R 571 /home/alisa/repo
```

```
sudo apt-get update
```

Устанавливаем пакет debmirror

```
sudo apt install debmirror gnupg xz-utils
```

Открываем в редакторе файл /etc/apt/sources.list

```
sudo sensible-editor /etc/apt/sources.list
```

```
alisa@repo:/var/www/html$ sudo sensible-editor /etc/apt/sources.list
Select an editor. To change later, run select-editor again.
 1. /bin/nano          <---- easiest
 2. /usr/bin/vim.basic
 3. /usr/bin/vim.tiny
 4. /bin/ed
```

Choose 1-4 [1]: 1

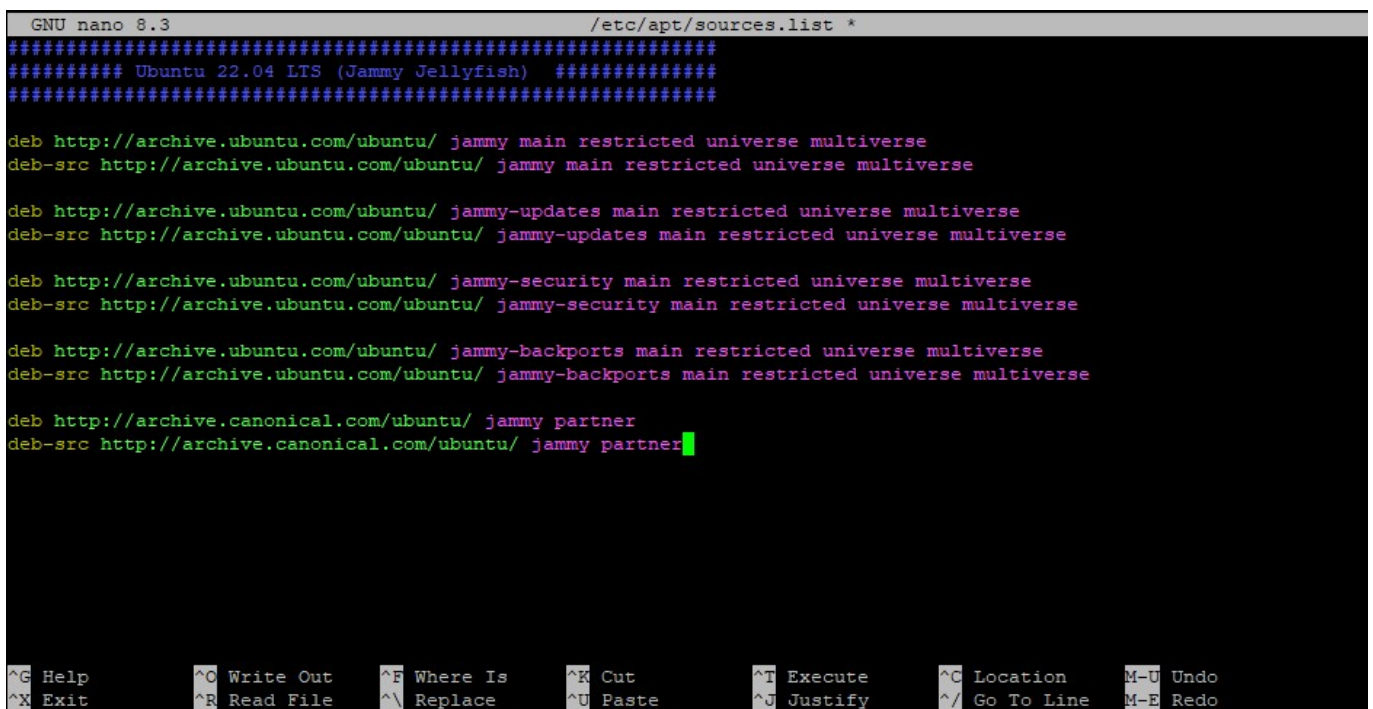
```
GNU nano 8.3 /etc/apt/sources.list
# Ubuntu sources have moved to /etc/apt/sources.list.d/ubuntu.sources
```

```
[ Read 1 line ]
^G Help      ^O Write Out  ^F Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo
^X Exit      ^R Read File  ^\ Replace    ^U Paste       ^J Justify    ^_/ Go To Line M-E Redo
```

записываем в файл следующие адреса

```
#####
##### Ubuntu 22.04 LTS (Jammy Jellyfish) #####
#####
```

```
deb http://archive.ubuntu.com/ubuntu/ jammy main restricted universe  
multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy main restricted universe  
multiverse  
  
deb http://archive.ubuntu.com/ubuntu/ jammy-updates main restricted universe  
multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy-updates main restricted  
universe multiverse  
  
deb http://archive.ubuntu.com/ubuntu/ jammy-security main restricted  
universe multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy-security main restricted  
universe multiverse  
  
deb http://archive.ubuntu.com/ubuntu/ jammy-backports main restricted  
universe multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy-backports main restricted  
universe multiverse  
  
deb http://archive.canonical.com/ubuntu/ jammy partner  
deb-src http://archive.canonical.com/ubuntu/ jammy partner
```



```
GNU nano 8.3 /etc/apt/sources.list *  
#####  
##### Ubuntu 22.04 LTS (Jammy Jellyfish) #####  
#####  
  
deb http://archive.ubuntu.com/ubuntu/ jammy main restricted universe multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy main restricted universe multiverse  
  
deb http://archive.ubuntu.com/ubuntu/ jammy-updates main restricted universe multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy-updates main restricted universe multiverse  
  
deb http://archive.ubuntu.com/ubuntu/ jammy-security main restricted universe multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy-security main restricted universe multiverse  
  
deb http://archive.ubuntu.com/ubuntu/ jammy-backports main restricted universe multiverse  
deb-src http://archive.ubuntu.com/ubuntu/ jammy-backports main restricted universe multiverse  
  
deb http://archive.canonical.com/ubuntu/ jammy partner  
deb-src http://archive.canonical.com/ubuntu/ jammy partner
```

Записываем и сохраняем файл

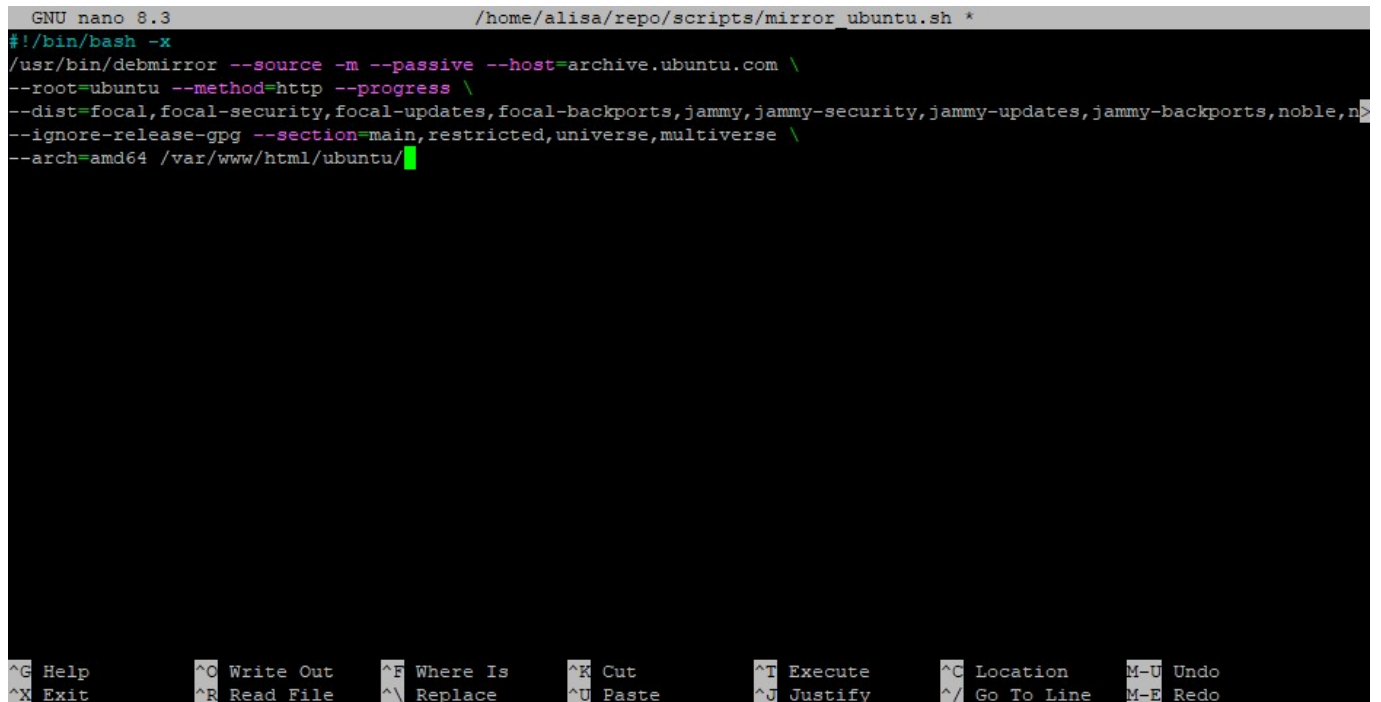
```
sudo apt-get update  
sudo apt-get dist-upgrade
```

Создадим файл скрипта зеркала Ubuntu

```
sudo sensible-editor /home/alisa/repo/scripts/mirror_ubuntu.sh
```

и вставим в скрипт следующий код

```
#!/bin/bash -x
/usr/bin/debmirror --source -m --passive --host=archive.ubuntu.com \
--root=ubuntu --method=http --progress \
--dist=focal,focal-security,focal-updates,focal-backports,jammy,jammy-
security,jammy-updates,jammy-backports,noble,noble-security,noble-
updates,noble-backports,oracular,oracular-security,oracular-
updates,oracular-backports \
--ignore-release-gpg --section=main,restricted,universe,multiverse \
--arch=amd64 /var/www/html/ubuntu/
```



```
GNU nano 8.3 /home/alisa/repo/scripts/mirror_ubuntu.sh *
#!/bin/bash -x
/usr/bin/debmirror --source -m --passive --host=archive.ubuntu.com \
--root=ubuntu --method=http --progress \
--dist=focal,focal-security,focal-updates,focal-backports,jammy,jammy-security,jammy-updates,jammy-backports,noble,n
--ignore-release-gpg --section=main,restricted,universe,multiverse \
--arch=amd64 /var/www/html/ubuntu/
^G Help      ^O Write Out  ^F Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^_ Go To Line  M-E Redo
```

перейдем в папку скрипта и сделаем его исполняемым

```
cd /home/alisa/repo/scripts/
sudo chmod +x mirror_ubuntu.sh
```

Установим для удобства пакет screen

```
sudo apt install screen
```

Запустим наш скрипт mirror_ubuntu.sh на исполнение

```
sudo screen /home/alisa/repo/scripts/mirror_ubuntu.sh
```

```
[GNUPG:] NO_PUBKEY 3B4FE6ACC0B21F32
[GNUPG:] NEWSIG
[GNUPG:] ERROR keydb_search 33554445
[GNUPG:] ERRSIG 871920D1991BC93C 1 10 01 1587663257 9 -
[GNUPG:] NO_PUBKEY 871920D1991BC93C
gpgv: unknown type of key resource 'trustedkeys.kbx'
gpgv: keyblock resource '/root/.gnupg/trustedkeys.kbx': General error
gpgv: Signature made Thu 23 Apr 2020 05:34:17 PM UTC
gpgv:         using RSA key 3B4FE6ACC0B21F32
gpgv: Can't check signature: No public key
gpgv: Signature made Thu 23 Apr 2020 05:34:17 PM UTC
gpgv:         using RSA key 871920D1991BC93C
gpgv: Can't check signature: No public key
.temp/.tmp/dists/focal/InRelease signature does not verify.
Ubuntu Release file: using Suite (focal).
[ 0%] Getting: dists/focal-security/Release...      *** GET http://archive.ubuntu.com/ubuntu/dists/focal-security/Release ==> 200 OK
ok
[ 0%] Getting: dists/focal-security/InRelease...    *** GET http://archive.ubuntu.com/ubuntu/dists/focal-security/InRelease ==> 200 OK
ok
[ 0%] Getting: dists/focal-security/Release.gpg...  *** GET http://archive.ubuntu.com/ubuntu/dists/focal-security/Release.gpg ==> 100%
```

Проверим в браузере работу скрипта по загрузке зеркала ubuntu



Index of /ubuntu

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
Parent Directory		-	
Archive-Update-in-Progress-repo	2025-03-01 13:28	11	
dists/	2025-03-01 13:28	-	
project/	2024-11-24 21:31	-	

Apache/2.4.63 (Ubuntu) Server at 192.168.1.132 Port 80

Создаём несколько папок в домашней директории, в которой будет храниться наш срез репозитория (или даже несколько), к примеру, согласно нижеприведенной схемы:

```
sudo mkdir /home/alisa/repo/kernelmirror
sudo mkdir /home/alisa/repo/kernelmirror/kernel
```

cd /var/www/html Настроим права доступа к нашей главной папке

```
sudo chown -R root:alisa /home/alisa/repo sudo chmod -R 571 /home/alisa/repo
```

```
sudo ln -s /home/alisa/repo/kernelmirror/kernel kernel
```

Скрипт mirrorkernel.sh Теперь создадим mirrorkernel.sh, открыв предпочитаемый вами редактор таким образом

Создайте файл «mirrorkernel.sh». Теперь создадим mirrorkernel.sh. Откройте предпочитаемый вами редактор таким образом `sudo sensible-editor /home/alisa/repo/scripts/mirrorkernel.sh`

зеркало lfs

`rsync:rsync2.osuosl.org/lfs/`

`rsync:rsync2.osuosl.org/clfs/`

`rsync:mirror.freedif.org/blfs/`

* `rsync -r --progress rsync:rsync2.osuosl.org/lfs/ /var/www/html/lfs/`

```

For more information about the OSL visit:
  http://osuosl.org/services/hosting

This host is the home to the primary archives of several
projects.  We would prefer that only primary/secondary
mirrors use this service.  Thanks!

-----

receiving incremental file list
skipping non-regular file "lfs-packages/11.0-rc2"
skipping non-regular file "lfs-packages/8.1"
skipping non-regular file "lfs-packages/8.1-rc2"
skipping non-regular file "lfs-packages/9.1"
skipping non-regular file "lfs-packages/lfs-packages-11.0-rc2.tar"
skipping non-regular file "lfs-packages/lfs-packages-11.2.tar"
skipping non-regular file "lfs-packages/lfs-packages-8.1-rc2.tar"
skipping non-regular file "lfs-packages/lfs-packages-8.1.tar"
skipping non-regular file "lfs-packages/lfs-packages-9.1.tar"
.timestamp
 13 100% 12.70kB/s 0:00:00 (xfr#1, ir-chk=1070/1072)
lfs-packages/
lfs-packages/MD5SUMS
 3,378 100% 3.22MB/s 0:00:00 (xfr#2, ir-chk=1160/1168)
lfs-packages/SHA1SUMS
 3,850 100% 3.67MB/s 0:00:00 (xfr#3, ir-chk=1159/1168)
lfs-packages/lfs-packages-10.0-rc1.tar
 1,998,848 0% 332.10kB/s 0:22:09

```

по аналогии

```
rsync -r --progress rsync://mirror.freedif.org/blfs/
/var/www/html/lfs/blfs/
rsync -r --progress rsync://mirror.freedif.org/clfs/
/var/www/html/lfs/clfs/
```

перейдем в директорию `lfs/hlfs-packages` и загрузим `hlfs-packages`

```
cd /var/www/html/lfs/hlfs-packages
wget --recursive --no-parent
https://mirror.download.it/lfs/pub/lfs/hlfs-packages/
```

перейдем в директорию `lfs/lfs-museum` и загрузим `alfs-museum`

```
cd /var/www/html/lfs/lfs-museum
wget -r -l 7 -nc https://linuxfromscratch.org/museum/alfs-museum/
```

```
-LFS-5.0-2.tar.bz2
Reusing existing connection to linuxfromscratch.org:443.
HTTP request sent, awaiting response... 200 OK
Length: 22124 (22K) [application/x-bzip2]
Saving to: 'linuxfromscratch.org/museum/alfs-museum/profile-LFS-5.0-2.tar.bz2'

linuxfromscratch.or 100%[=====>] 21.61K  --.-KB/s    in 0.001s

2025-03-01 14:09:43 (18.2 MB/s) - 'linuxfromscratch.org/museum/alfs-museum/profi
le-LFS-5.0-2.tar.bz2' saved [22124/22124]

--2025-03-01 14:09:43--  https://linuxfromscratch.org/museum/alfs-museum/profile
-LFS-5.0-3.tar.bz2
Reusing existing connection to linuxfromscratch.org:443.
HTTP request sent, awaiting response...
```

Рабочий метод скрипта для debmirror

```
sudo sensible-editor /home/alisa/repo/scripts/mirror_kernel.sh
```

```
#!/bin/bash -x /usr/bin/debmirror -nosource -m -passive -host=www.kernel.org \ -root=ubuntu
-method=ftp -progress \ -dist=hardy,hardy-security,hardy-updates,hardy-backports \ -ignore-release-
gpg -section=main,restricted,multiverse,universe \ -arch=amd64
/home/alisa/repo/kernelmirror/kernel/
```

```
cd /home/alisa/repo/scripts/ sudo chmod +x mirror_kernel.sh
```

```
./mirror_kernel.sh
```

```
sudo screen /home/alisa/repo/scripts/mirror_kernel.sh
```

```
kernelmirror/kernel
```

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Last update: **2025/03/01 17:23**

