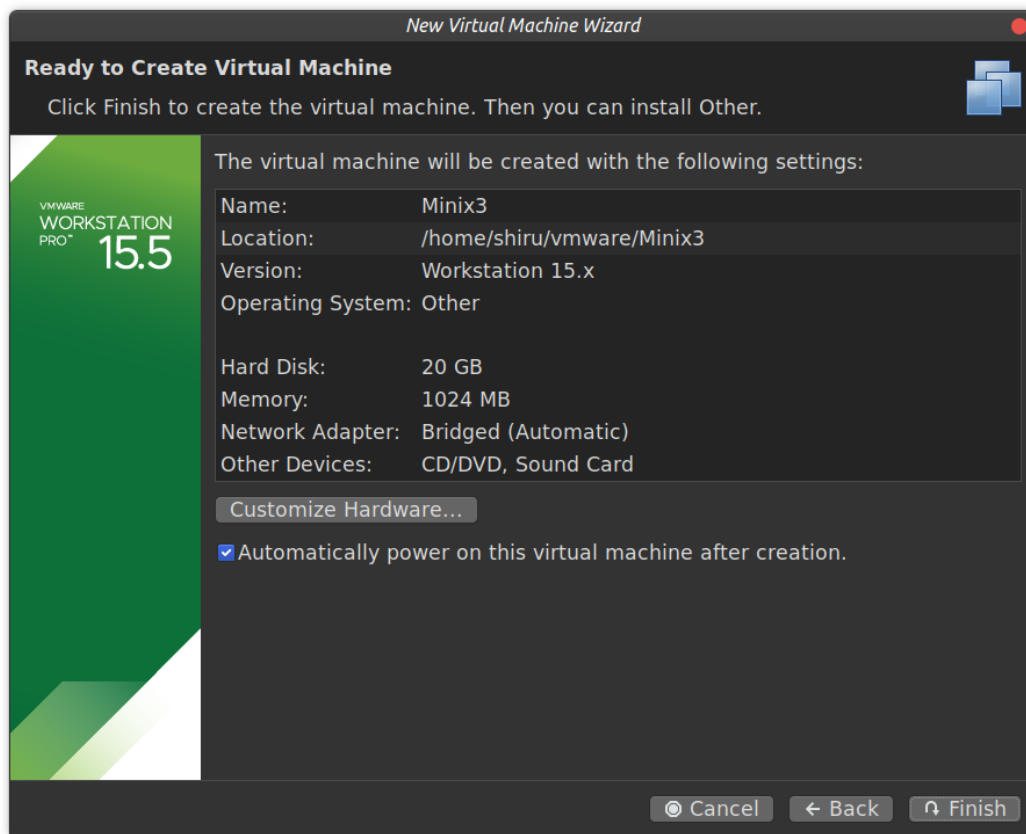
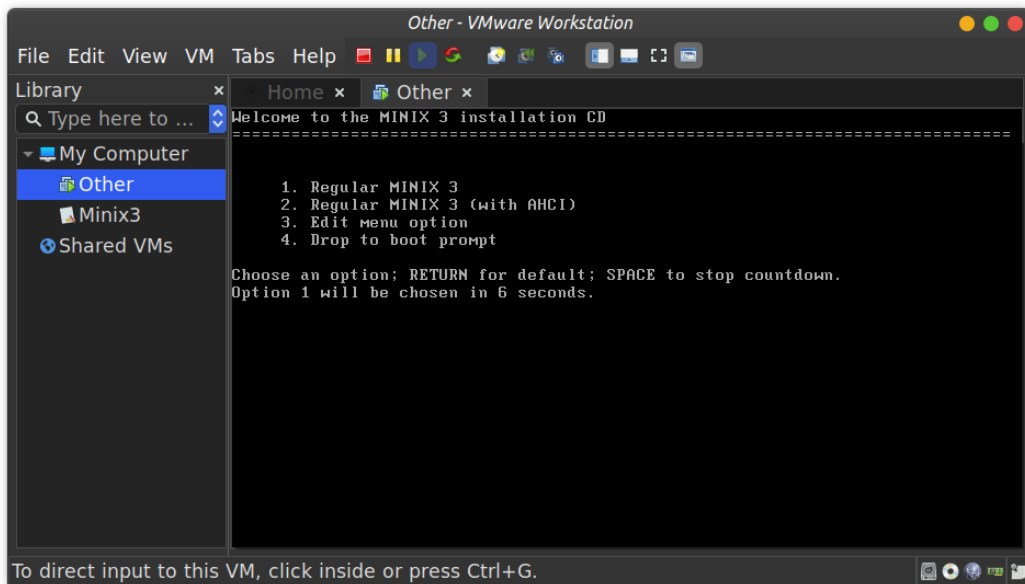
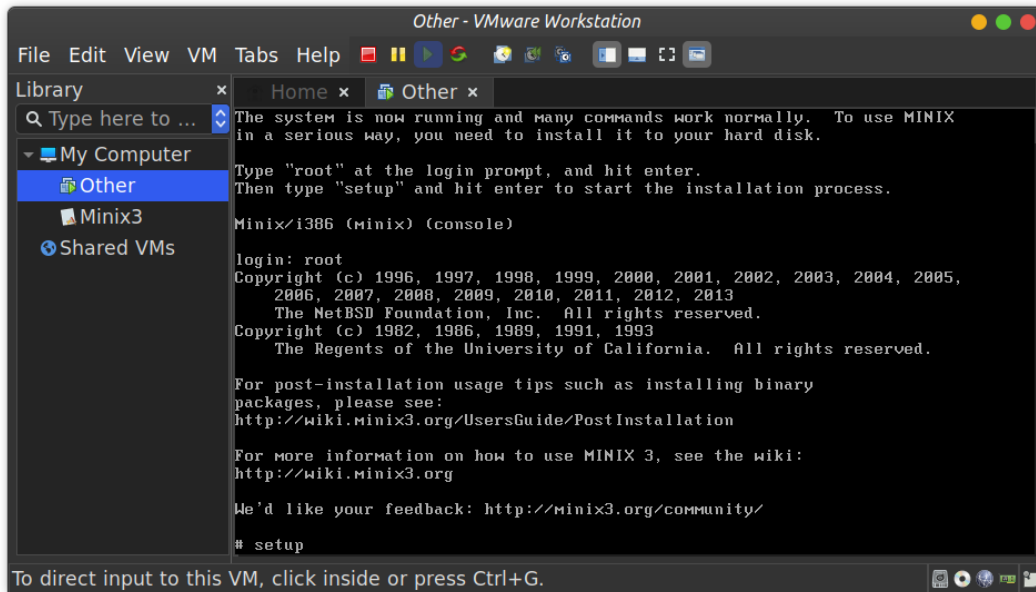


# CS314 - Setting up Minix3

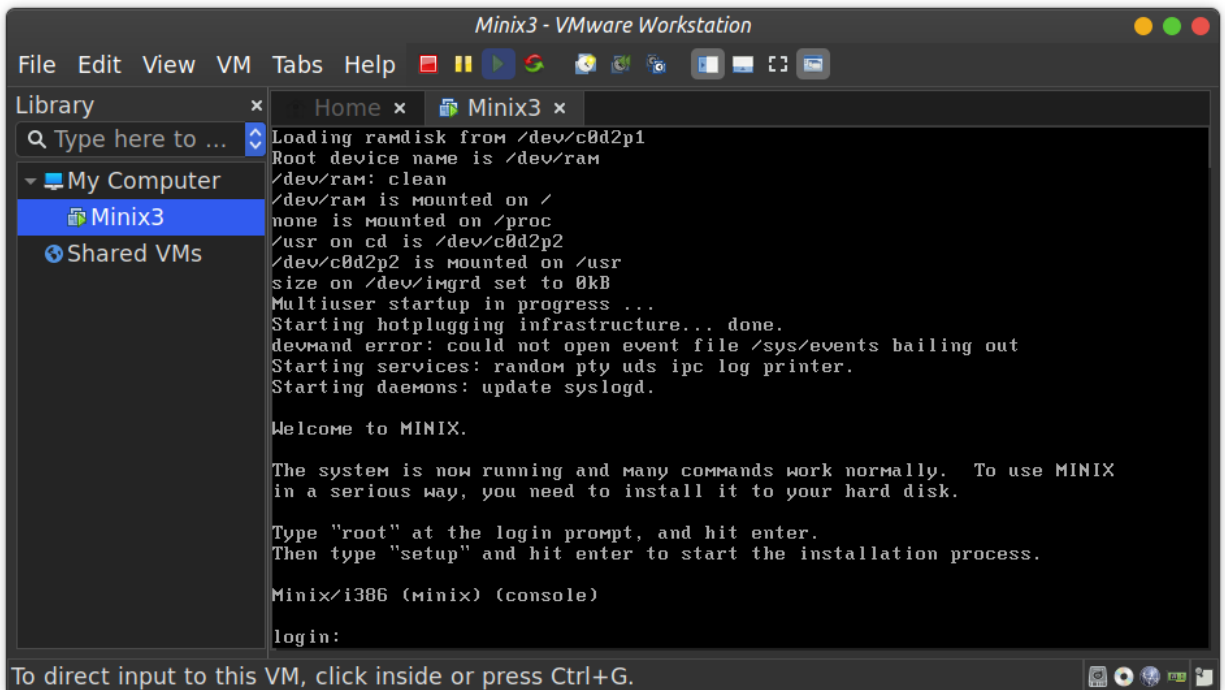
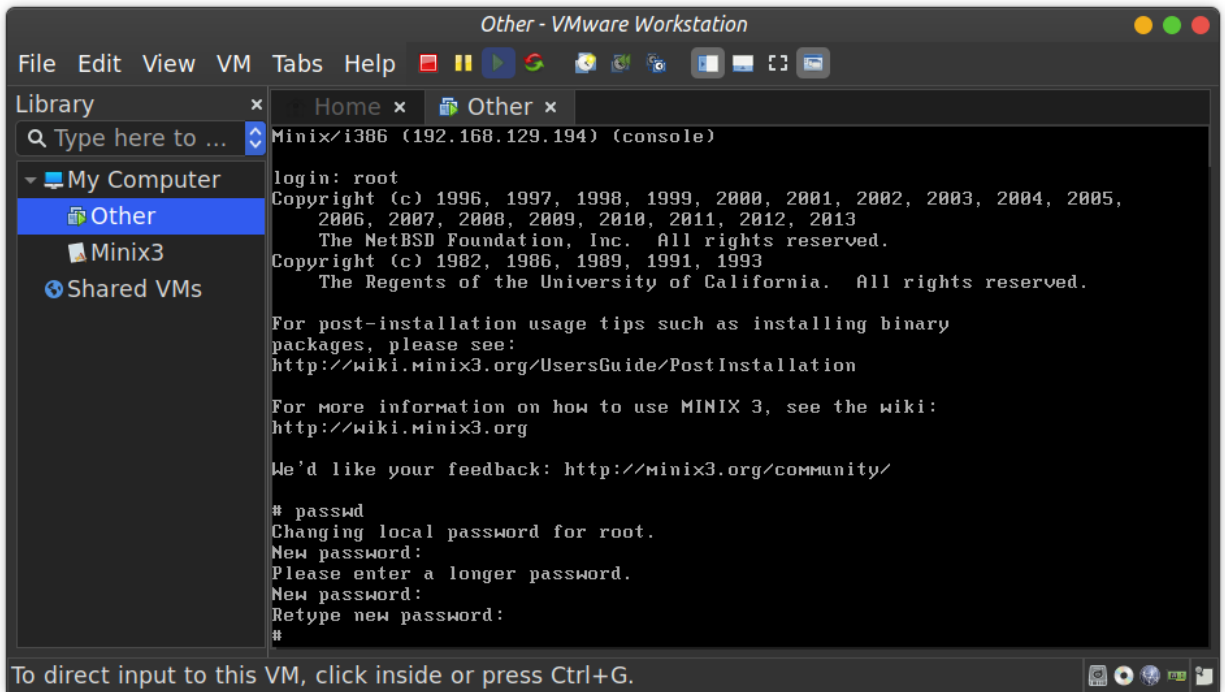
---

## 1. Minix 3 installation :

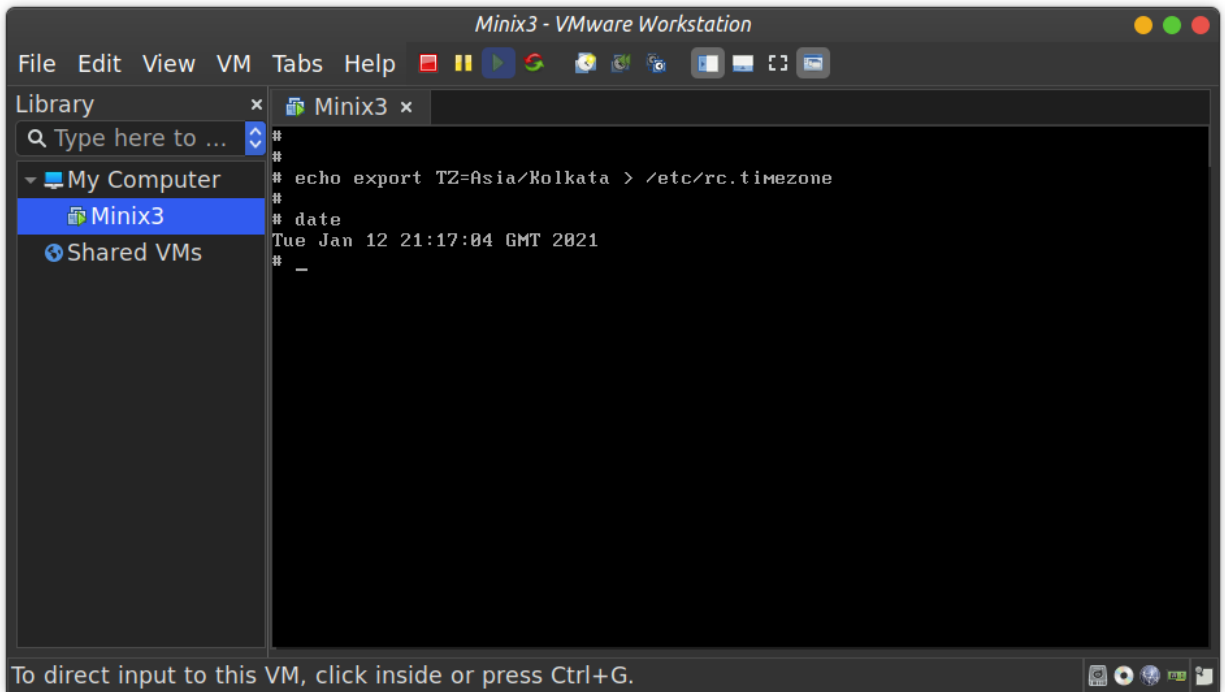




## 2. Set the root password



### 3. Set the timezone

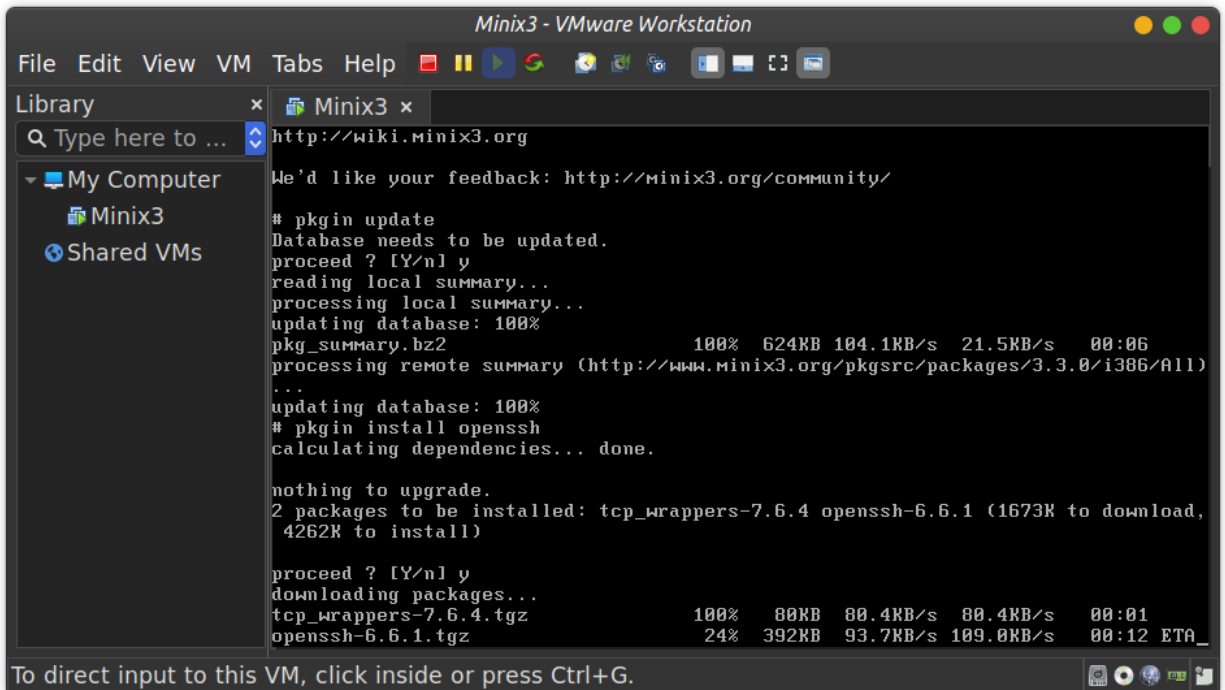


The screenshot shows a VMware Workstation window titled "Minix3 - VMware Workstation". The interface includes a menu bar (File, Edit, View, VM, Tabs, Help) and a toolbar. On the left, a "Library" pane shows "My Computer" with "Minix3" selected. The main terminal window displays the following commands and output:

```
#
#
# echo export TZ=Asia/Kolkata > /etc/rc.timezone
#
# date
Tue Jan 12 21:17:04 GMT 2021
# _
```

At the bottom, a status bar reads: "To direct input to this VM, click inside or press Ctrl+G."

### 4. Setup openssh



The screenshot shows the same VMware Workstation window. The terminal now displays the output of a package update and installation:

```
http://wiki.minix3.org
We'd like your feedback: http://minix3.org/community/

# pkgin update
Database needs to be updated.
proceed ? [Y/n] y
reading local summary...
processing local summary...
updating database: 100%
pkg_summary.bz2                100% 624KB 104.1KB/s 21.5KB/s 00:06
processing remote summary (http://www.minix3.org/pkgsrc/packages/3.3.0/i386/All)
...
updating database: 100%
# pkgin install openssh
calculating dependencies... done.

nothing to upgrade.
2 packages to be installed: tcp_wrappers-7.6.4 openssh-6.6.1 (1673K to download,
4262K to install)

proceed ? [Y/n] y
downloading packages...
tcp_wrappers-7.6.4.tgz          100% 80KB 80.4KB/s 80.4KB/s 00:01
openssh-6.6.1.tgz              24% 392KB 93.7KB/s 109.0KB/s 00:12 ETA_
```

At the bottom, the same status bar is present: "To direct input to this VM, click inside or press Ctrl+G."

## 5. Update the packages, and run pkgin\_sets

Minix3 - VMware Workstation

File Edit View VM Tabs Help

Library x Minix3 x

Q Type here to ... calculating dependencies... done.

My Computer

Minix3

Shared VMs

```
nothing to upgrade.  
18 packages to be installed: jpeg-9anb1 jbigkit-2.1 libpaper-1.1.24 ghostscript-  
fonts-8.11nb3 freetype2-2.5.3nb1 fontconfig-2.11.0 ghostscript-gpl-9.05nb8 tiff-  
4.0.3nb6 png-1.6.10 jasper-1.900.1nb7 bash-4.3 m4-1.4.17 psutils-1.17nb4 netpbm-  
10.35.80nb7 libiconv-1.14nb2 ghostscript-9.05nb7 bison-3.0.2 groff-1.20.1nb12 (2  
6M to download, 74M to install)  
  
proceed ? [Y/n] y  
downloading packages...  
jpeg-9anb1.tgz 100% 418KB 69.7KB/s 70.2KB/s 00:06  
jbigkit-2.1.tgz 100% 103KB 103.0KB/s 25.0KB/s 00:01  
libpaper-1.1.24.tgz 100% 24KB 24.4KB/s 24.4KB/s 00:00  
ghostscript-fonts-8.11nb3.tgz 100% 805KB 80.5KB/s 37.3KB/s 00:10  
freetype2-2.5.3nb1.tgz 100% 811KB 81.1KB/s 71.8KB/s 00:10  
fontconfig-2.11.0.tgz 100% 967KB 87.9KB/s 81.0KB/s 00:11  
ghostscript-gpl-9.05nb8.tgz 100% 12MB 88.9KB/s 89.2KB/s 02:13  
tiff-4.0.3nb6.tgz 100% 1010KB 77.7KB/s 21.0KB/s 00:13  
png-1.6.10.tgz 100% 349KB 69.8KB/s 74.8KB/s 00:05  
jasper-1.900.1nb7.tgz 100% 708KB 78.7KB/s 18.2KB/s 00:09  
bash-4.3.tgz 100% 2167KB 72.2KB/s 56.8KB/s 00:30  
m4-1.4.17.tgz 100% 240KB 60.0KB/s 88.8KB/s 00:04  
psutils-1.17nb4.tgz 100% 75KB 74.8KB/s 74.8KB/s 00:00  
netpbm-10.35.80nb7.tgz 15% 233KB 71.7KB/s 101.0KB/s 00:17 ETA
```

To direct input to this VM, click inside or press Ctrl+G.

## 6. Create a regular user

Minix3 - VMware Workstation

File Edit View VM Tabs Help

Library x Minix3 x

Q Type here to ...

My Computer

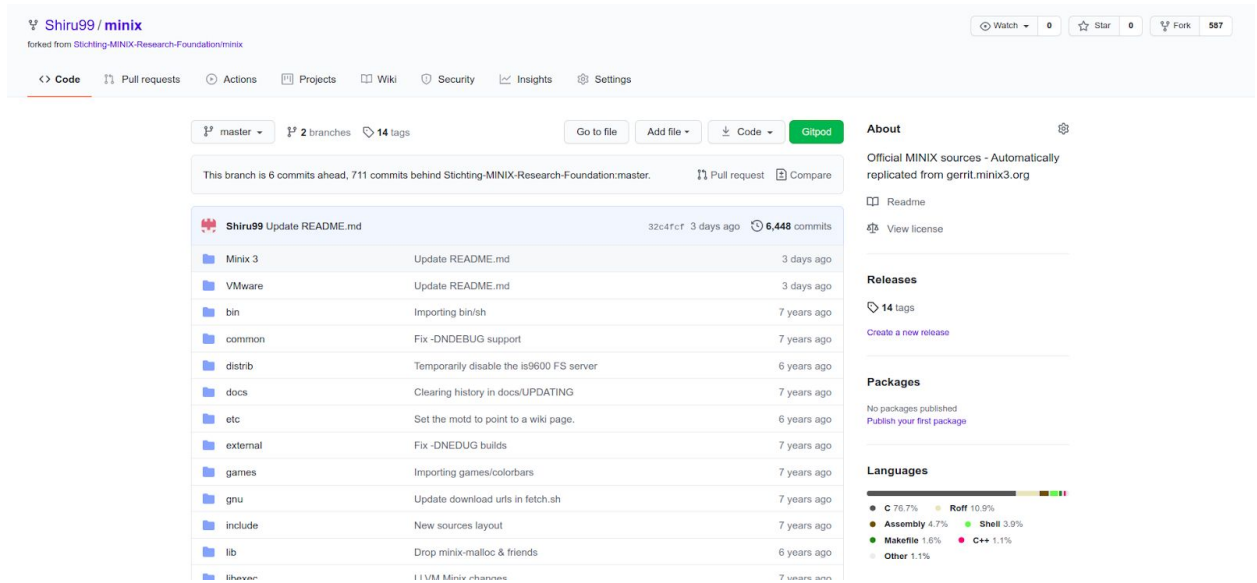
Minix3

Shared VMs

```
#  
#  
# group add USERS  
#  
# user add -m -g USERS shiru  
#  
# passwd shiru  
Changing local password for shiru.  
New password:  
Please enter a longer password.  
New password:  
Retype new password:  
#  
# -
```

To direct input to this VM, click inside or press Ctrl+G.

## 7. Get the Minix3 source code



Shiru99/minix

This branch is 6 commits ahead, 711 commits behind Stichting-MINIX-Research-Foundation/master.

Shiru99 Update README.md 32c4fcf 3 days ago 6,448 commits

File	Commit	Age
Minix 3	Update README.md	3 days ago
VMware	Update README.md	3 days ago
bin	Importing bin/sh	7 years ago
common	Fix -DNDEBUG support	7 years ago
distrib	Temporarily disable the is9600 FS server	6 years ago
docs	Clearing history in docs/UPDATING	7 years ago
etc	Set the mtd to point to a wiki page.	6 years ago
external	Fix -DNDEBUG builds	7 years ago
games	Importing games/colorbars	7 years ago
gnu	Update download urls in fetch.sh	7 years ago
include	New sources layout	7 years ago
lib	Drop minix-malloc & friends	6 years ago
libexec	11/11 Minix changes	7 years ago

About

Official MINIX sources - Automatically replicated from [gerit.minix3.org](http://gerit.minix3.org)

Releases

14 tags

Create a new release

Packages

No packages published

Publish your first package

Languages

C 76.7% Roff 10.9% Assembly 4.7% Shell 3.9% Makefile 1.6% C++ 1.1% Other 1.1%

## 8. Set up the source code in the guest Minix3 machine

```
~/VI sem/OS/lab/V3.3.0 :)
~/VI sem/OS/lab/V3.3.0 :)
~/VI sem/OS/lab/V3.3.0 :) 192.186.2.187
192.186.2.187: command not found
~/VI sem/OS/lab/V3.3.0 :) ls
bin      distrib  external  include  LICENSE  minix     share    tools
build.sh docs     games     lib      Makefile reasetools sys      usr.bin
common   etc      gnu       libexec  Makefile.inc sbin      tests    usr.sbin
~/VI sem/OS/lab/V3.3.0 :) cd .
~/VI sem/OS/lab/minix :) ls
bin      distrib  external  include  LICENSE  minix     share    tools
build.sh docs     games     lib      Makefile reasetools sys      usr.bin
common   etc      gnu       libexec  Makefile.inc sbin      tests    usr.sbin
~/VI sem/OS/lab/minix :) cd ..
~/VI sem/OS/lab :) ls
'Lab 1'  minix  minix.zip 'V3.3.0 (copy)'
~/VI sem/OS/lab :) scp minix.zip root@192.186.2.187:/usr
^C~/VI sem/OS/lab :) scp minix.zip root@192.168.2.187:/usr
The authenticity of host '192.168.2.187 (192.168.2.187)' can't be established.
ECDSA key fingerprint is SHA256:SnNBISzjbf/Lxlc0g4SWnd1RAvjiE1WmSLAoVlNP8dc.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.2.187' (ECDSA) to the list of known hosts.
root@192.168.2.187's password:
minix.zip                                100% 177MB  4.1MB/s   00:43
~/VI sem/OS/lab :) |
```

## 9. Modifying, building, and testing Minix3

