OSYS PROJECT

W0281253

Abstract
VNC Server Installation, Media Server Creation and creating a rescue drive

Momodou Lamin Keita
Momodou.keita@nscc.ca

This project will have three different sections, each section will cover a different task.

Task List

- ➤ Task 1: Set up a remote desktop connection between a server and a client

    - o Server: [Ubuntu Server 14.04.2 LTS](#)

    - o Client: [Linux Mint 17.1 Rebecca](#)

- ➤ Task 2: Step up a media server

    - o Server: [Ubuntu Server 14.04.2 LTS](#)

    - o Client: [Linux Mint 17.1 Rebecca](#)

- ➤ Task 3: Build a custom Linux rescue drive

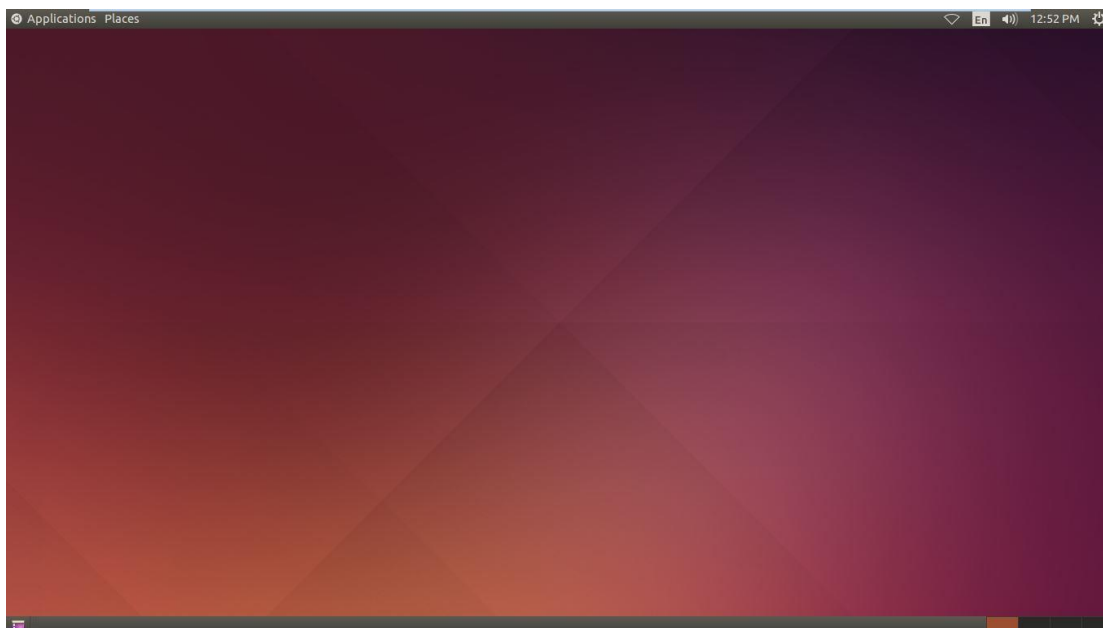   - o Linux Distribution: [Bodhi Linux 3.0.0 64 Bit](#)

Task 1

Set up a remote desktop connection between a server and a client.
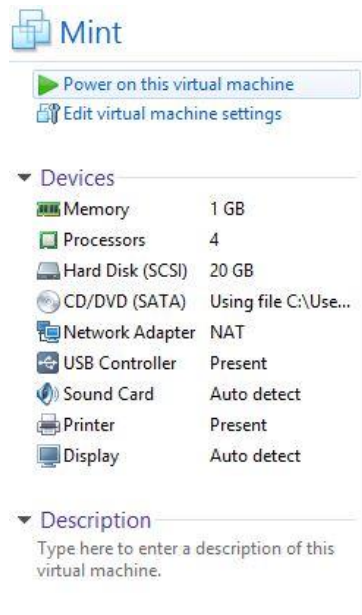
Server Configuration
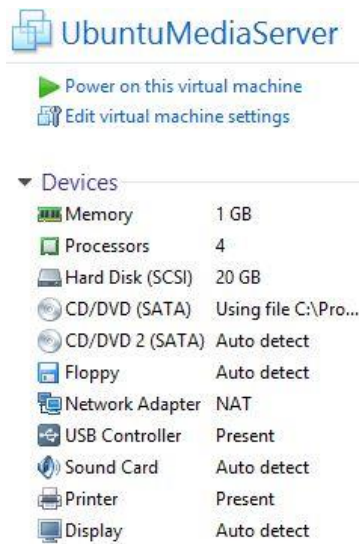
Server after Installation- No GUI

[Ubuntu Server Installation Guide](#)

Client Configuration

Client after Installation
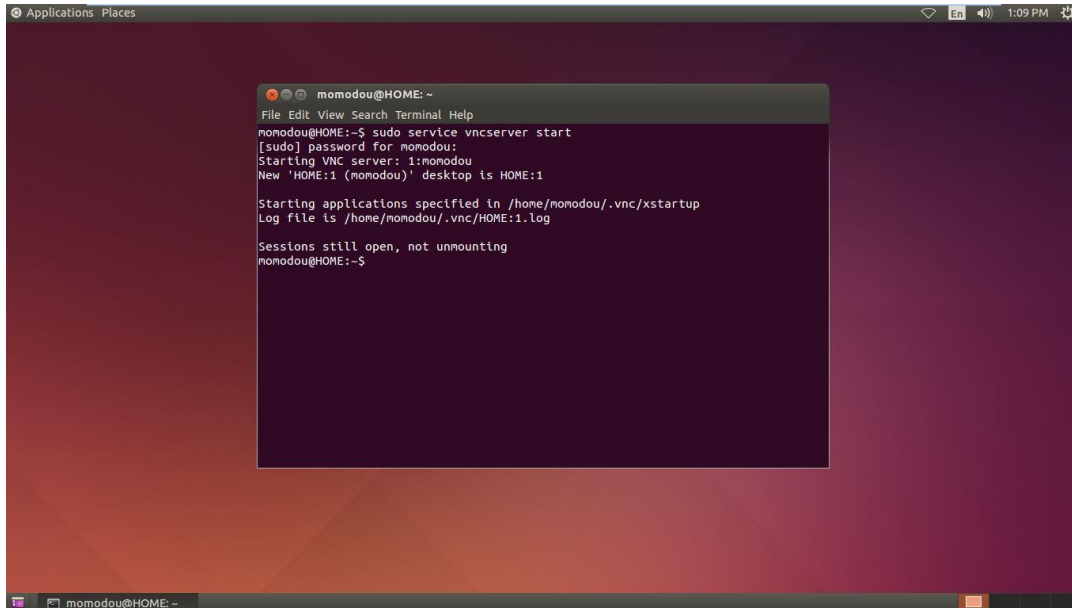

Linux Mint Installation Guide

Remote Desktop Connection between Server and Client
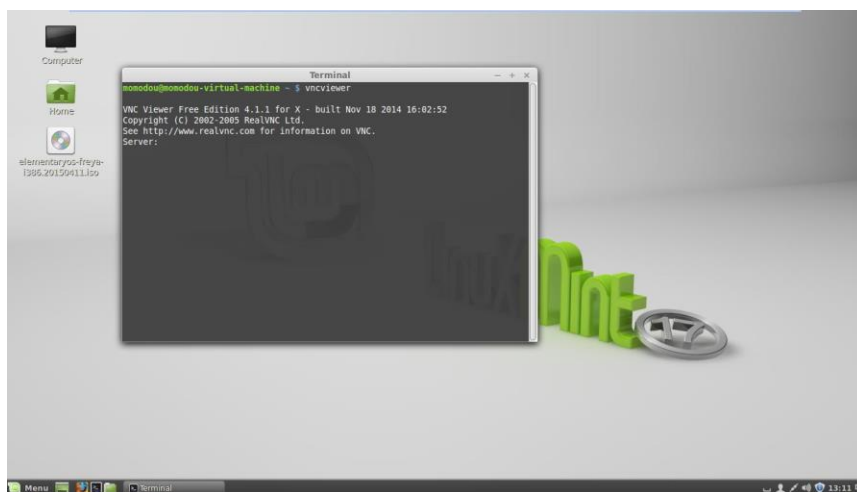
- [Gnome GUI + VNC Server Configuration](#)

Client VncViewer Installation – *sudo apt-get install xvnc4viewr*
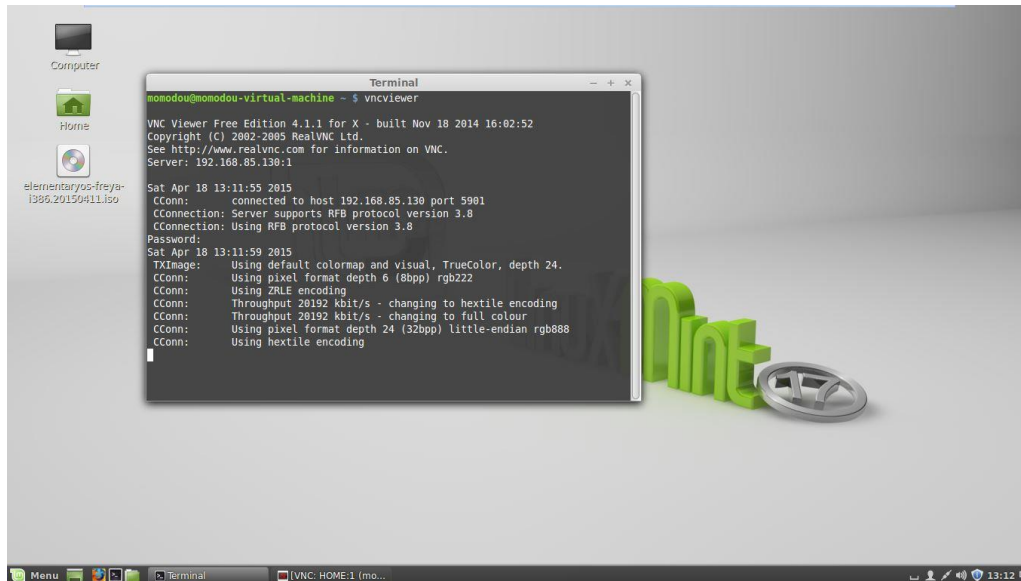
- Start VNCServer: *sudo service vncsever start*

- Start VNCViewer

- Enter VNCServer IP address and password

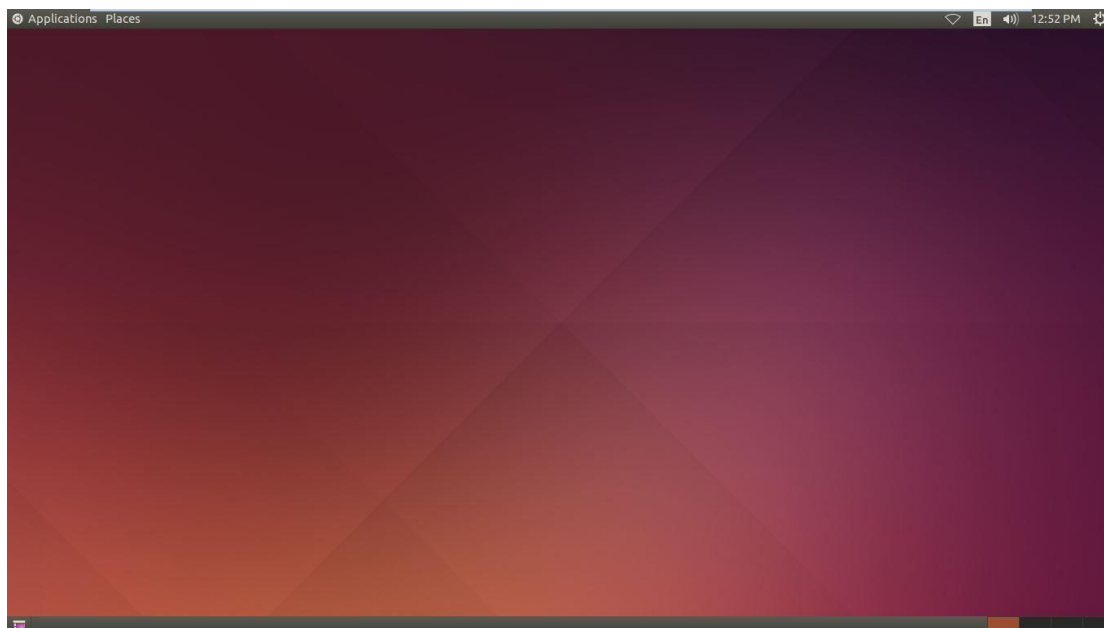- Task1 complete connection established
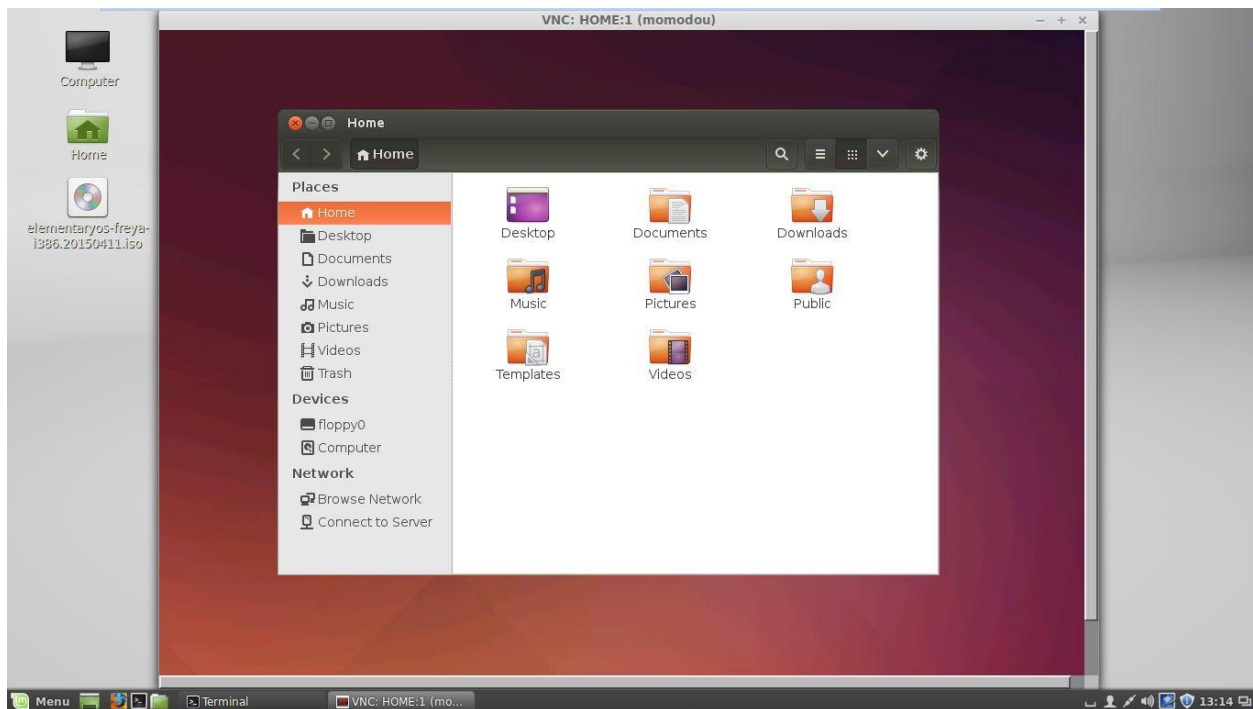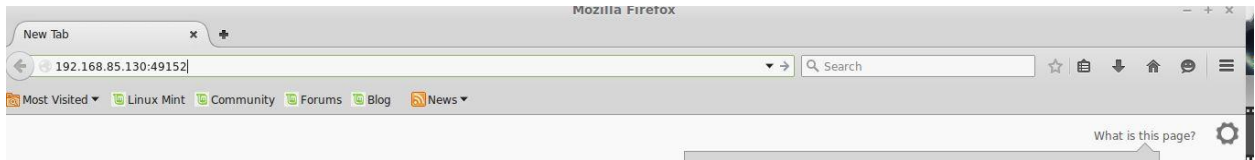
Task 2

Media Server

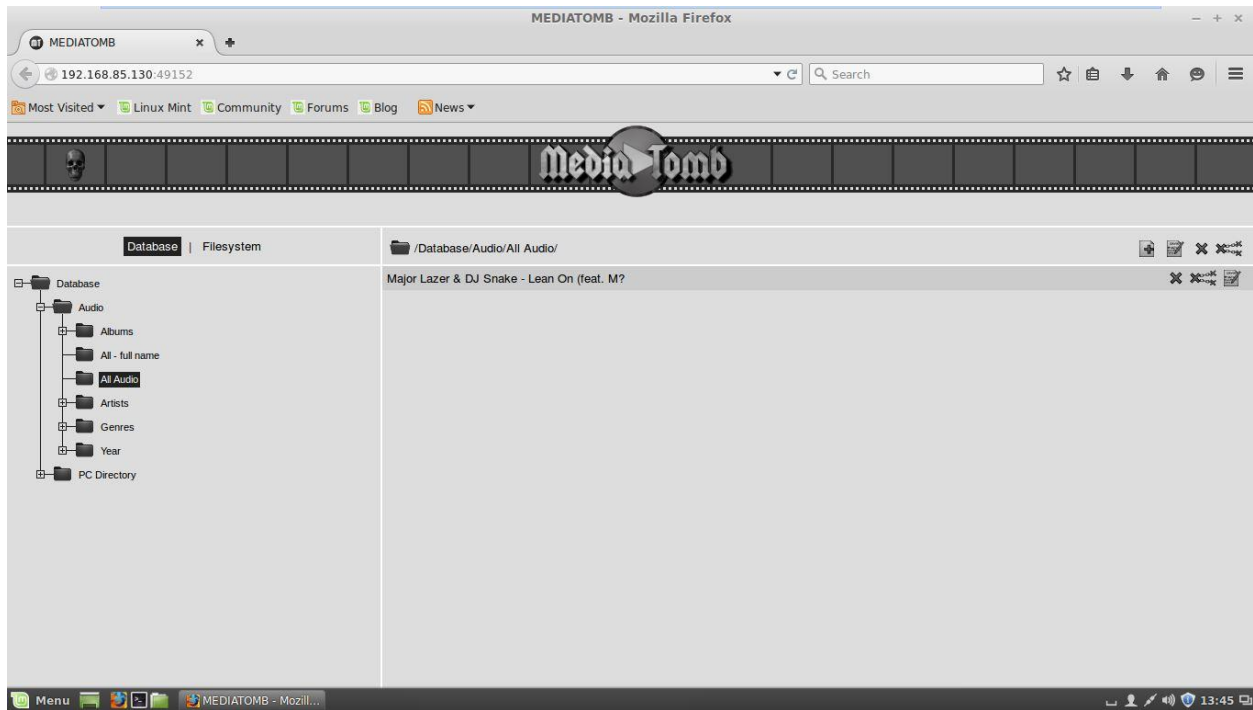Server Configuration

Server after Installation- No GUI

Ubuntu Server Installation Guide

- MediaTomb can be found in the software manager more most Linux Distro Or *"sudo apt-get install mediatomb"*

- Connect to Mediatomb on the server using the browser on the client

- Mediatomb connection established

Task 3

Rescue Drive

sshfs

- Function: Interact with files and directories located on a remote server
- Reason for inclusion: Accessing larger files to be used in system recovery, or move file on current system to a secure location.

Partimage

- Function : it save/backups partitions having a supported file system
- Reason for inclusion: To back up specific partition that are still intact and can be used

pimgrestore

- Function :
- Reason for inclusion:

ssh connections

- Function: Encrypted network protocol for initiating text based – shell sessions.
- Reason for inclusion: prevent intrusion of malicious software to other network device through active network connection

samba connection

- Function: Allows connection between windows clients or server and other operating systems
- Reason for inclusion:

nfs connection

- Function: allow remote hosts to mount partitions on a particular system and use them as though they were local file systems
- Reason for inclusion:

btrfs

- Function:
- Reason for inclusion:

vmstat

- Function: Reports information about processes, memory, paging, block, IO, traps and CPU activity
- Reason for inclusion:

systat package

- Function: Provides and overall View of Current system Performance
- Reason for inclusion: Check usage and performance of certain resources

Fsarchiver

- Function: allows you to save a file system to a compressed archive file

- Reason for inclusion: easy transfer of an entire file system

mbuffer, udpcast, multicast

- Mbuffer function: buffers I/0 operations and displays the throughput

- Udpcast function: file transfer tool that can send data simultaneously to many destinations on a LAN.

- Multicast function:

- Reason for inclusion:

Partclone

- Function: Save and restore used blocks on a partition

- Reason for inclusion:

memtest

- Function: test and stress test an RAM modules

- Reason for inclusion:

tftp (tftpd)

- Function:

- Reason for inclusion:

xinetd

- Function: Will allow client to get from or put files(transfer) files onto the remote host

- Reason for inclusion:

grub Boot Manager

- Function: MultiBoot loader

- Reason for inclusion:

An X-11 Window manager

- Function: Provide a Graphical user interface

- Reason for inclusion:

nmap

- Function: Security scanner

- Reason for inclusion:

chntpw, reged

- Chntpw Function: resetting and blanking local passwords

- reged Function: import/export the Microsoft registry

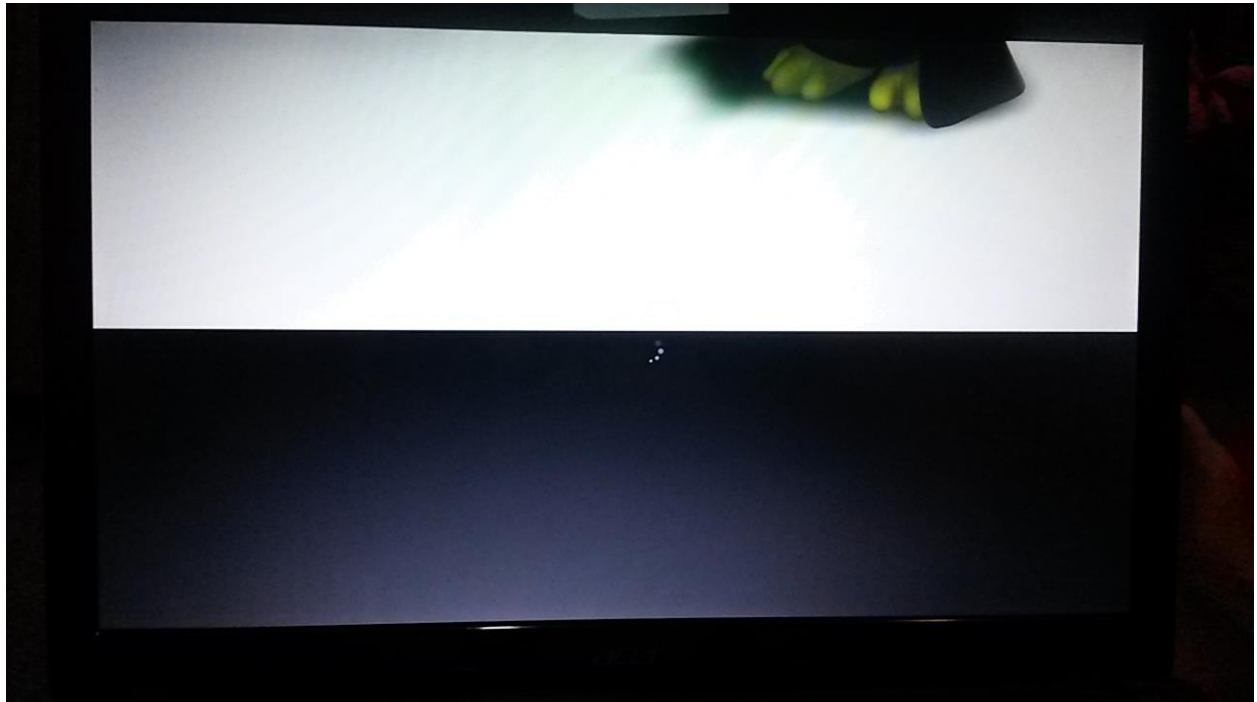- Reason for inclusion: resetting the password on a locked system and making registry changes

chkrootkit

- Function: check system for known rootkits.

- Reason for inclusion: Security

Some appropriate anti-virus (ClamAV)

- Function: Scanner system for antiviruses

- Reason for inclusion: system security

Recovery drive boot

Recovery Drive Background

Source Material List

http://www.ubuntu.com/download/server

http://www.linuxmint.com/download.php

http://www.bodhilinux.com/download/

http://ubuntuserverguide.com/2014/04/how-to-install-ubuntu-server-14-04-trusty-tahr.html

http://www.linuxmint.com/documentation/user-guide/Cinnamon/english_17.1.pdf

http://en.wikipedia.org/wiki/Secure_Shell

https://www.westgrid.ca/support/sshfs_file_transfer

http://www.partimage.org/Main_Page

http://www-uxsup.csx.cam.ac.uk/pub/doc/redhat/redhat7.3/rhl-rg-en-7.3/ch-nfs.html

https://www.samba.org/samba/what_is_samba.html

http://linuxcommand.org/man_pages/vmstat8.html

http://www.maier-komor.de/sysstat.html

http://www.freebsd.org/cgi/man.cgi?query=mbuffer&sektion=1&apropos=0&manpath=FreeBS
D+9.0-RELEASE+and+Ports

http://partclone.org/

http://www.memtest.org/