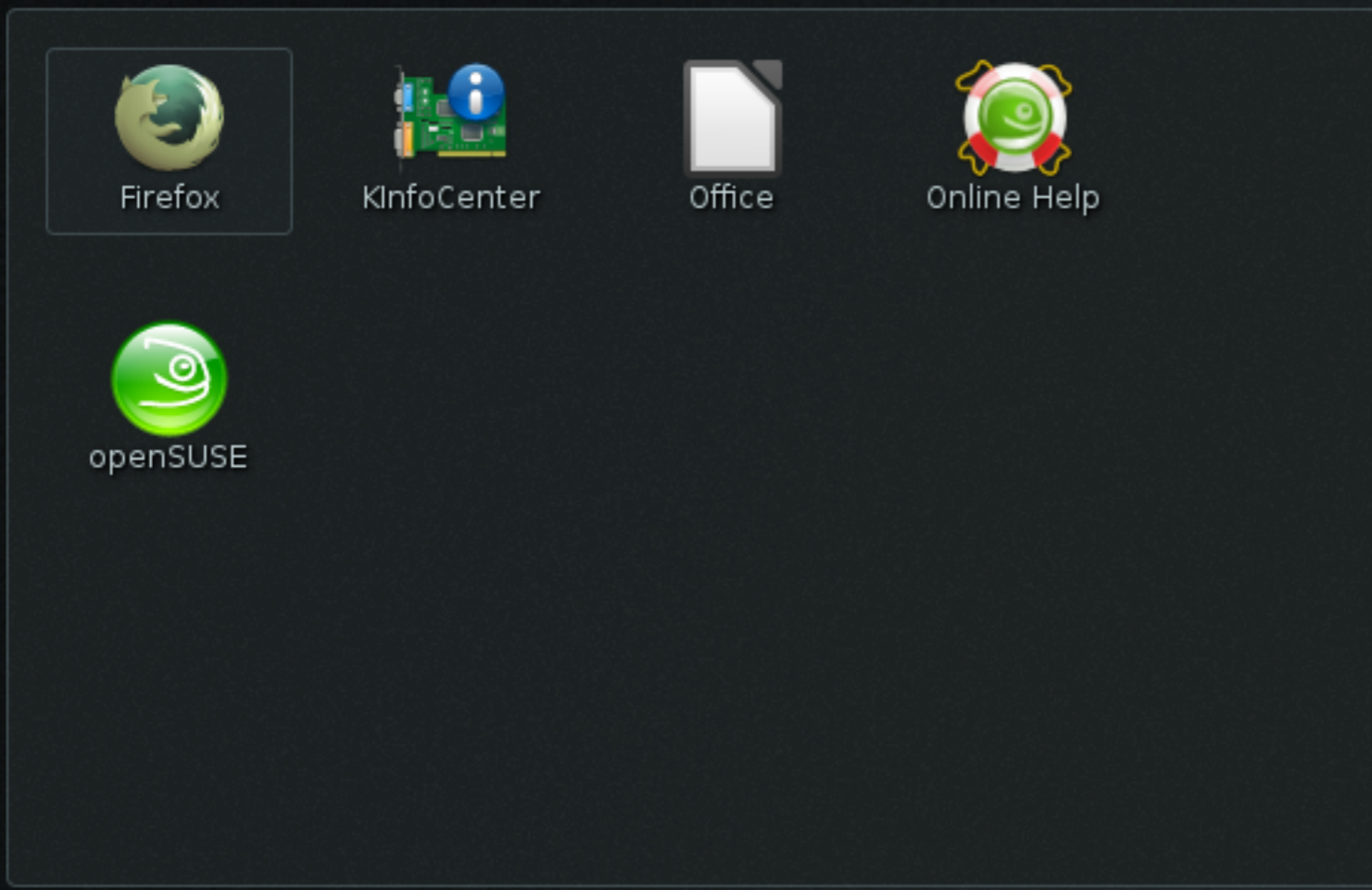


## OpenSUSE 13.1 iperf3 server setup

The presentation will download iperf3 program, compile, and start the server portion of the program. This will enable a iperf3 client machine to contact the server and test the network speed.

Preuss

4/28/2014



A collection of desktop icons on a dark background. The icons are arranged in two rows. The top row contains Firefox (a globe), KInfoCenter (a circuit board with a blue circle), Office (a white document), and Online Help (a green gear with a white circle). The bottom row contains the openSUSE logo (a green circle with a white swirl) and the text 'openSUSE' below it.

The presentation logs into OpenSUSE.



Firefox



KInfoCenter



openSUSE

Virtual Machine Settings

Hardware Options

Device	Summary
Memory	1 GB
Processors	1
Hard Disk (SCSI)	30 GB
CD/DVD (IDE)	Auto detect
Floppy	Auto detect
Network Adapter	Bridged (Automatic)
USB Controller	Present
Sound Card	Auto detect
Display	Auto detect

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: 1024 MB

64 GB -  
32 GB -  
16 GB -  
8 GB -  
4 GB -  
2 GB -  
1 GB -  
512 MB -  
256 MB -  
128 MB -  
64 MB -  
32 MB -  
16 MB -  
8 MB -  
4 MB -

- Maximum recommended memory (Memory swapping may occur beyond this size.) 12156 MB
- Recommended memory 256 MB
- Guest OS recommended minimum 32 MB

Add... Remove

OK Cancel Help

The presentation insures the virtual machine is running in bridged mode. The presentation does not show checking the IP addresses.







```
iperf-3.0.3/src/tcp_window_size.h
iperf-3.0.3/src/timer.c
iperf-3.0.3/src/timer.h
iperf-3.0.3/src/units.c
iperf-3.0.3/src/units.h
iperf-3.0.3/src/version.h
iperf-3.0.3/test_commands.sh
preuss@msctc-linux-spring2014a:~/Downloads> ls
iperf-3.0.3          iperf-3.0.3.tar.gz.sha256
iperf-3.0.3.tar.gz  ossec-hids-2.7.1.tar.gz
preuss@msctc-linux-spring2014a:~/Downloads> cd iperf-3.0.3/
preuss@msctc-linux-spring2014a:~/Downloads/iperf-3.0.3> ls
aclocal.m4      configure      LICENSE      README.md
AUTHORS        configure.ac  Makefile.am  RELEASE_NOTES
bootstrap.sh   examples     Makefile.in  src
config         INSTALL      make_release test_commands.sh
preuss@msctc-linux-spring2014a:~/Downloads/iperf-3.0.3> █
```

This shows the tar unzip as done. The next command is `cd iperf-3.0.3` because of the version of iperf, yours may be different.







```
ic-mic.o ../src/libiperf.la
libtool: link: gcc -g -Wall -g -O2 -g -o .libs/mic mic-mic.o ../src/.libs
/libiperf.so
gcc -DHAVE_CONFIG_H -I. -I../src -g -Wall -g -O2 -MT mis-mis.o -MD -MP
-MF .deps/mis-mis.Tpo -c -o mis-mis.o `test -f 'mis.c' || echo './'`mis.c
mv -f .deps/mis-mis.Tpo .deps/mis-mis.Po
/bin/sh ../libtool --tag=CC --mode=link gcc -g -Wall -g -O2 -g -o mis m
is-mis.o ../src/libiperf.la
libtool: link: gcc -g -Wall -g -O2 -g -o .libs/mis mis-mis.o ../src/.libs
/libiperf.so
make[1]: Leaving directory `/home/preuss/Downloads/iperf-3.0.3/examples'
make[1]: Entering directory `/home/preuss/Downloads/iperf-3.0.3'
make[1]: Nothing to be done for `all-am'.
make[1]: Leaving directory `/home/preuss/Downloads/iperf-3.0.3'
preuss@msctc-linux-spring2014a:~/Downloads/iperf-3.0.3> su
Password:
msctc-linux-spring2014a:/home/preuss/Downloads/iperf-3.0.3 # make install
```

The presentation becomes root to run the next command. The next command is make install as shown.

```
msctc-linux-spring2014a: /home/preuss/Downloads/iperf-3.0.3 # ldconfig  
msctc-linux-spring2014a: /home/preuss/Downloads/iperf-3.0.3 #
```

The presentation runs the ldconfig command after make install. This makes the newly installed libraries available to the programs.

```
msctc-linux-spring2014a:~/Downloads/iperf-3.0.3 # ldconfig
```

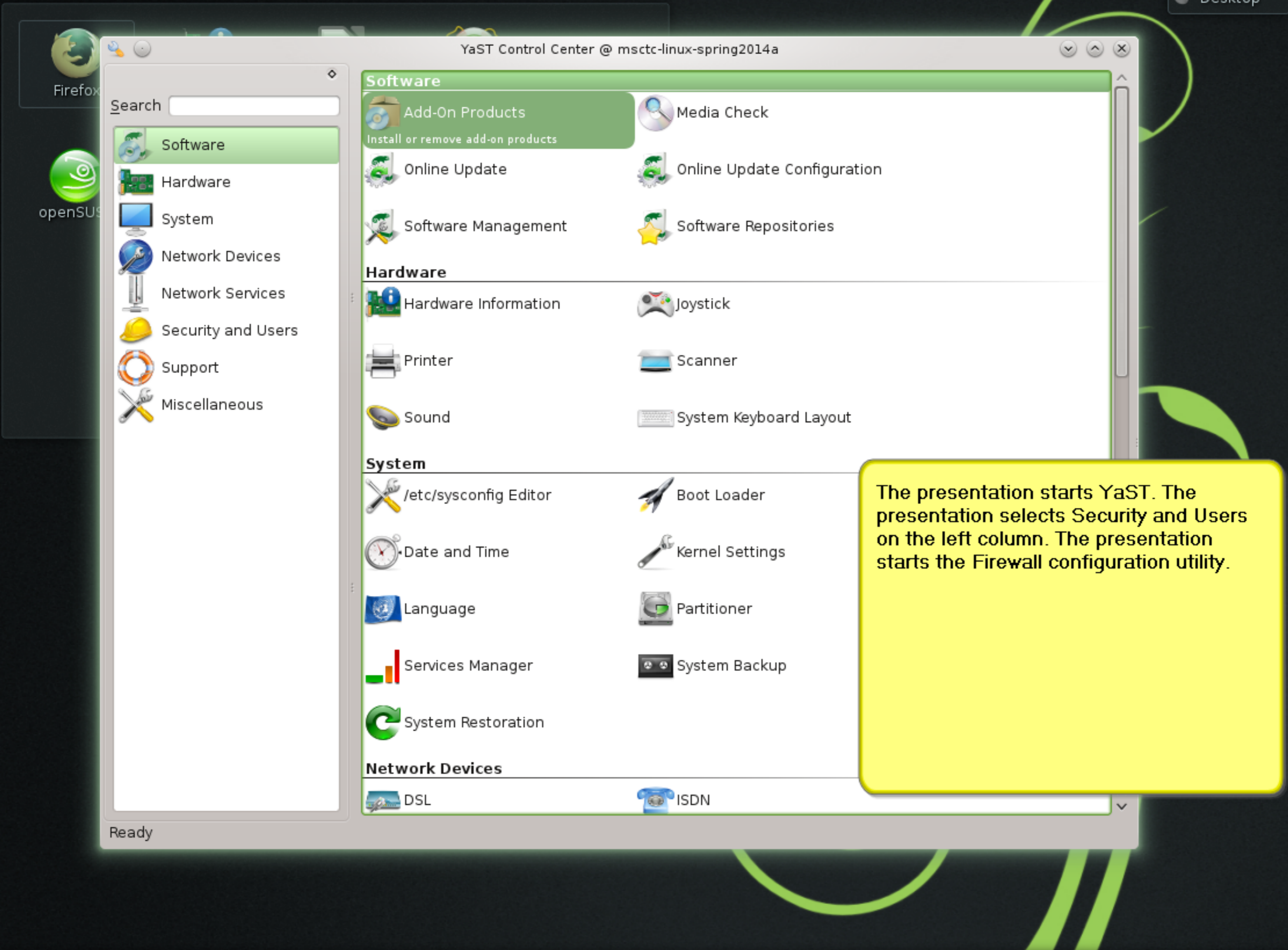
```
msctc-linux-spring2014a:~/Downloads/iperf-3.0.3 # exit
```

```
exit
```

```
preuss@msctc-linux-spring2014a:~/Downloads/iperf-3.0.3> iperf3 -s
```

```
-----  
Server listening on 5201  
-----  
█
```

The presentation starts the server with the command `iperf3 -s` as shown.



Search

- Software
- Hardware
- System
- Network Devices
- Network Services
- Security and Users
- Support
- Miscellaneous

### Software

- Add-On Products  
Install or remove add-on products
- Online Update
- Software Management
- Media Check
- Online Update Configuration
- Software Repositories

### Hardware

- Hardware Information
- Joystick
- Printer
- Scanner
- Sound
- System Keyboard Layout

### System

- /etc/sysconfig Editor
- Boot Loader
- Date and Time
- Kernel Settings
- Language
- Partitioner
- Services Manager
- System Backup
- System Restoration

### Network Devices

- DSL
- ISDN

The presentation starts YaST. The presentation selects Security and Users on the left column. The presentation starts the Firewall configuration utility.

Ready

YaST Control Center @ msctc-linux-spring2014a

Search [ ]

- Software
- Hardware
- System
- Network Devices
- Network Services
- Security and Users**
- Support
- Miscellaneous

- LDAP Client
- NFS Client
- NTP Configuration
- Mail Server
- NIS Client
- Network Services (xinetd)

YaST2

- Start-Up**
- Interfaces
- Allowed Services
- Masquerading
- Broadcast
- Logging Level
- Custom Rules

### Firewall Configuration: Start-Up

Service Start

Enable Firewall Automatic Starting

Disable Firewall Automatic Starting

Switch On and Off

Current Status: Firewall is not running

[ Start Firewall Now ]

[ Stop Firewall Now ]

[ Save Settings and Restart Firewall Now ]

[ Help ] [ Cancel ] [ Back ] [ Next ]

The presentation selects Stop Firewall Now. The presentation leaves this screen alone and turns to the client system.

Remember to Start Firewall Now once you are done with the tests.