

# FreeNX

A Free, Low Bandwidth, Low Latency,  
Remote Desktop Service Technology

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# What is NX?

- ♦ A way of connecting to a Linux desktop remotely
  - ♦ Windows (RDP) & VNC (RFB) protocols also supported
- ♦ 'Real-Time' performance, on slow networks
- ♦ Suspending and resuming of sessions
- ♦ Linux, Windows, Mac and Web (Java) clients
- ♦ 'Like VNC but Better'

# NoMachine NX

- ◆ NX Protocol developed in 2003 by NoMachine
  - ◆ Based on the *Differential X Compressor Project* (GPL)
  - ◆ Compression and Caching of X11 Session data
  - ◆ Reduced round-trips to near-zero
  - ◆ 1:100 to 1:1000 compression ratios

# FreeNX

- ♦ FreeNX project started in 2004
  - ♦ Wrapper around the NX GPL Core
  - ♦ Mostly written in Bash (> 10,000 lines of code!)
  - ♦ Very similar configuration and operation to NX
  - ♦ No limitations on number of connections

# Simple Demo



# LCFG FreeNX Component

- ◆ Controls FreeNX Configuration
  - ◆ Configuration File - /etc/nxserver/node.conf
  - ◆ Public Key for NX User - /var/lib/nxserver/home/.ssh

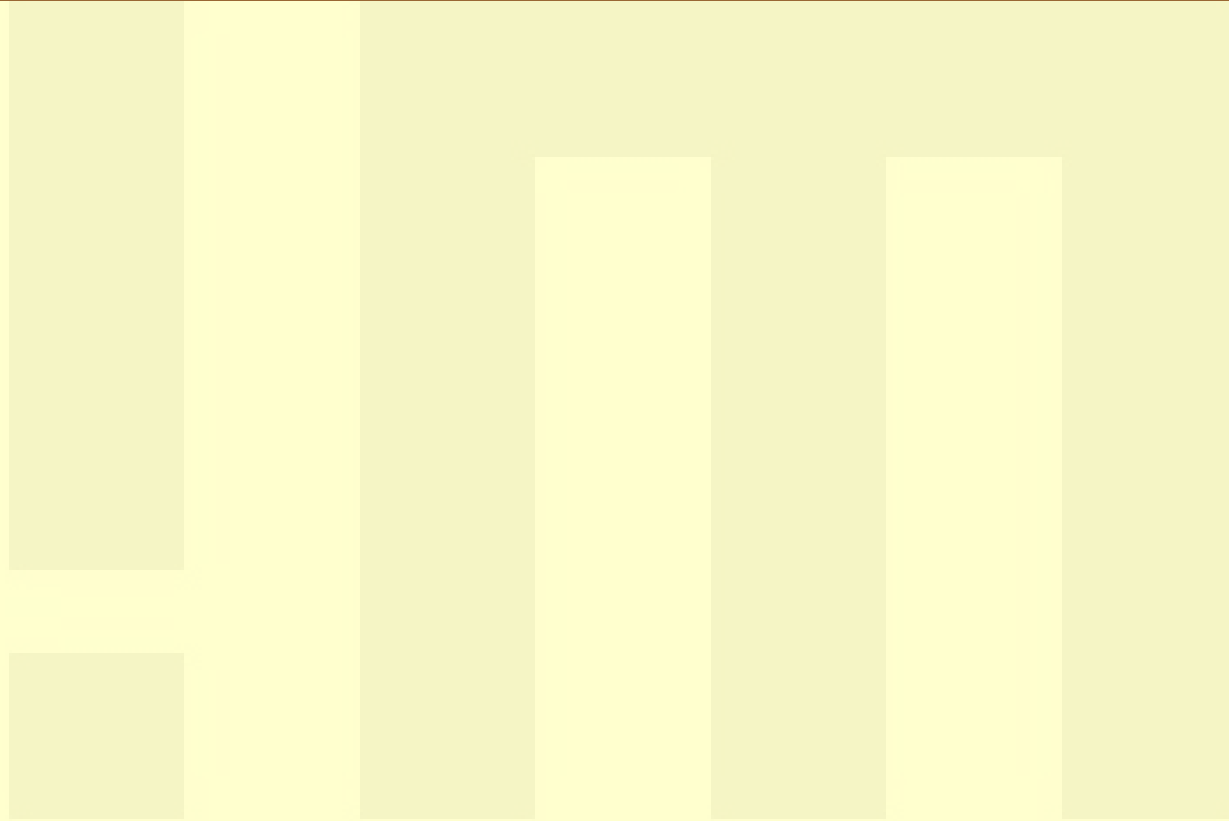
Config File:

```
CONFIG_OPTION_X="abc"
```

LCFG:

```
!freenx.freenxopts mADD(config_option_x)  
freenx.opt_config_option_x abc
```

# LCFG FreeNX Component Usage



# LCFG FreeNX Component Usage

```
#include <lcfg/options/freenx.h>
```



# Further Options

- ♦ Windows & Vnc Sessions (RDP & RFB Protocols)
- ♦ Server Pool

```
!freenx.freenxopts mADD(load_balance_algorithm \  
                        load_balance_servers)  
freenx.opt_load_balance_algorithm random  
freenx.opt_load_balance_servers a.foo.com b.foo.com
```

- ♦ Custom Tweaks

```
freenx.opt_session_user_limit 1  
freenx.opt_command_start_kde icewm-session
```

# Pool Demo

