

# **LiveCD Project Shred Utility**

by

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# What is Knoppix?

- Operating System that can be booted from CD or DVD without the need to install into a physical hard drive.

# With Knoppix you can:

- Test drive a Linux desktop without the need to install Linux
- Troubleshoot and repair Linux and Windows systems
- Create a thin client network with just one CD
- Replace a web server or firewall in an emergency
- Perform a security audit on your entire network

# With Knoppix you can:

- Virus scan a Windows computer from the safety of Linux
- Customize Knoppix for personal or business use
- Easily install the popular Debian GNU/Linux distribution with all of your hardware detected and configured

# Why Knoppix?

- Rich set of tools
- One of the most popular distribution
- There is a lot of documentantation

# Specific Control

- Specific control to be demonstrated would be an operational control – shred utility
- Knoppix provides shred utility that will securely wipe out partition (hard drive).

# Shred Utility

- When a file is deleted, only an entry in the index of files is deleted that tells where that data is stored.
- When a drive is shredded, shred not only unlinks it, but random data writes over the drive 25 times, that way any real data that is on there is scrambled with random data. The shred utility would then place the value of 0 into the hard drive and make the hard drive appear blank.

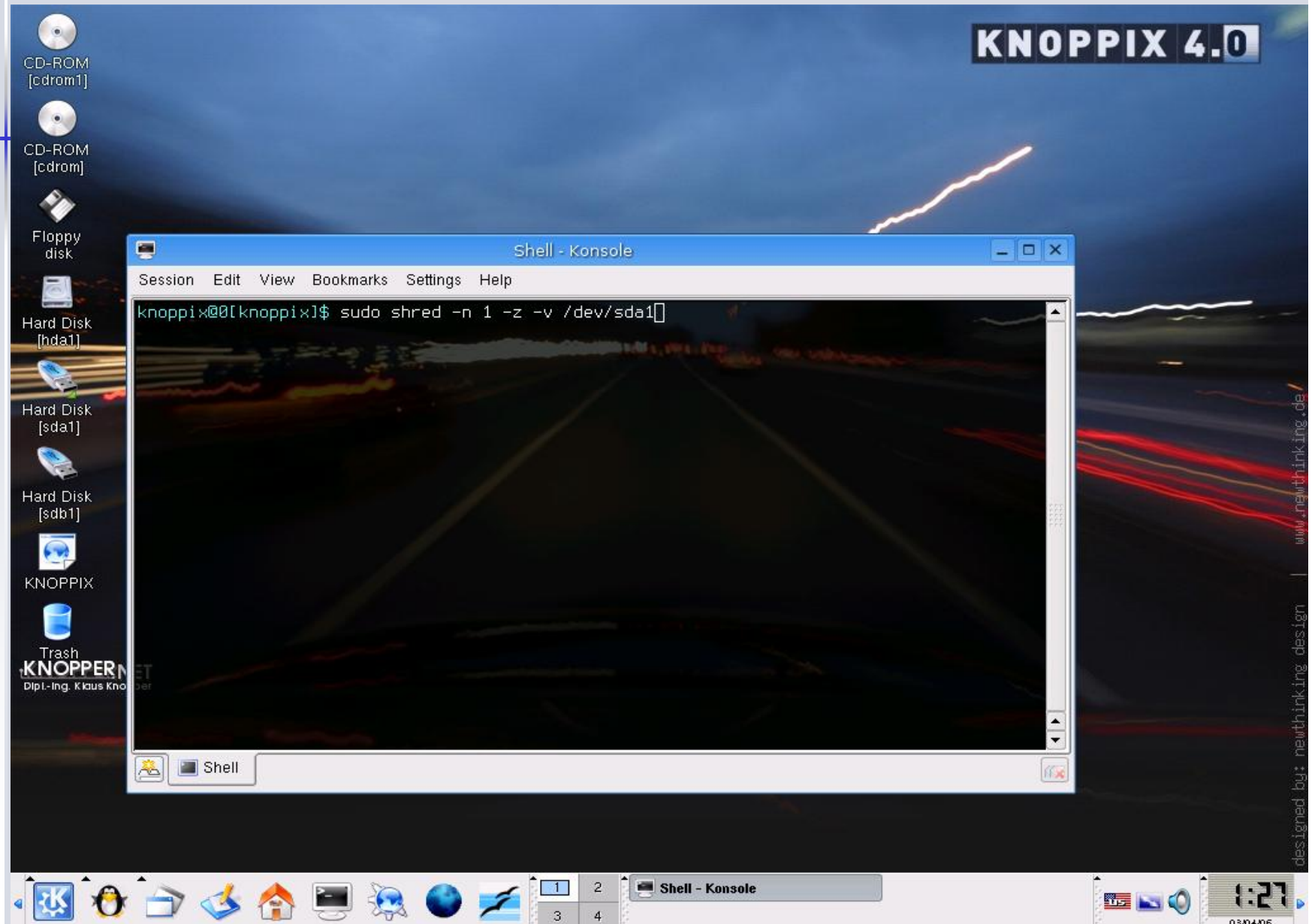
# The shred command

To "shred" a hard drive with Knoppix you would simply go to a command line and type:

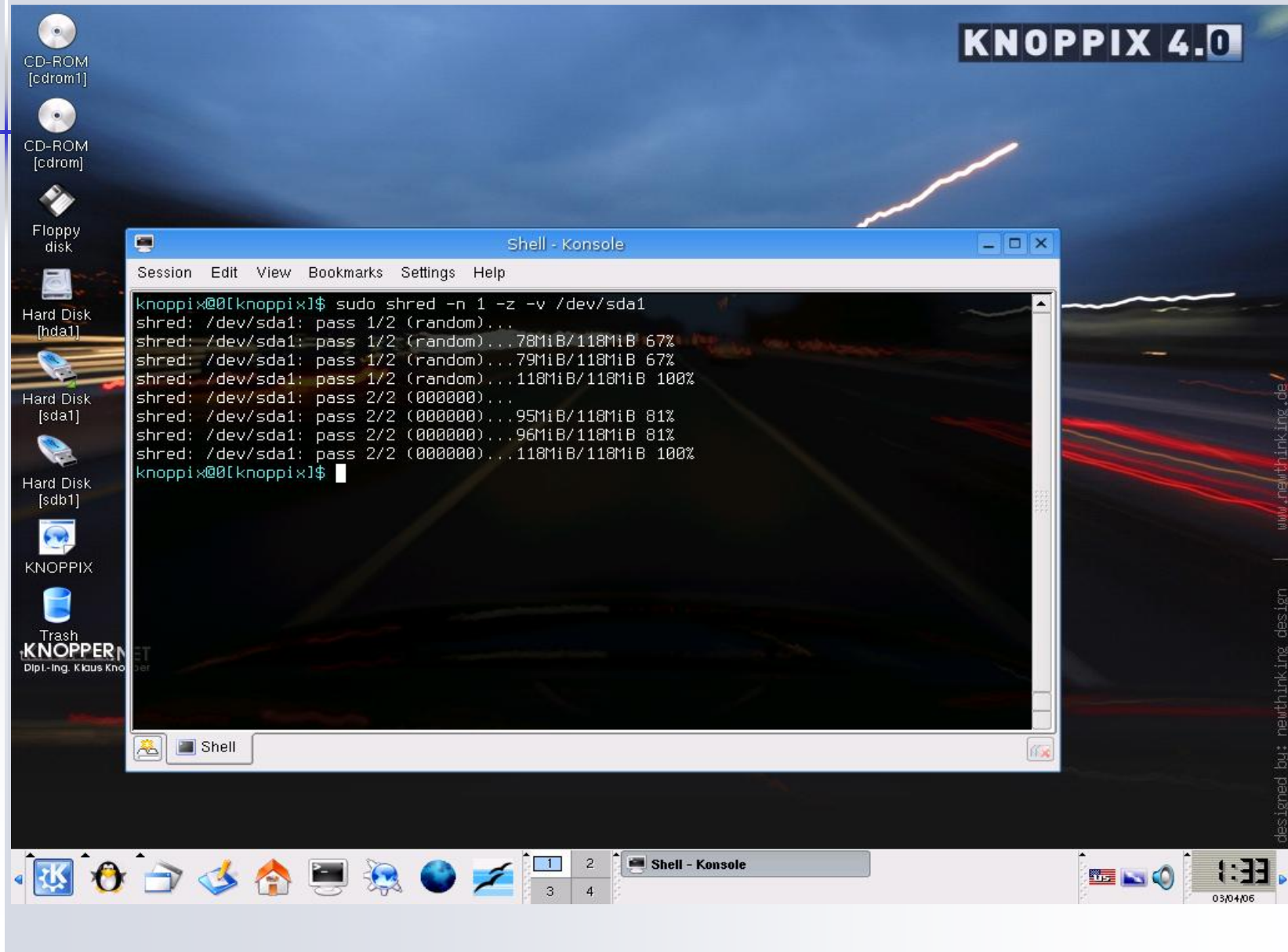
```
sudo shred -n1 -z -v /dev/hda1
```

- **-n 1** – it tells shred to overwrite the partition 1 time. By default it set to 25 times
- **-z** - it tells shred to write zeros into the drive
- **-v** - it shows user the progress of shredding
- **hda1** – the name of the chosen partition from which the data will be deleted or shredded

# The Shred Command



# Shred Utility in Action



# Windows View after Shred

