



Introducing nmrcOS

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Scope

Hackers

System administrators

Distro builders

Overall goals for the project

Stable, secure, trusted system

Intended users

Intended uses

History of the Project

Initial approach
Analysis of problems

Solution

How nmrcOS changed to solve these problems
Rationale for these choices

Noted Features of nmrcOS

Debian based OS (easy to install, supports most hardware)

Kernel mods

Customized apps

Kernel

Linux 2.2.25

Openwall kernel patch (overflow protection, etc)

HAP Linux kernel patch (better chroot, extra logging, etc)

Trusted path enforced in kernel

Random IP Ids

Modified Applications

Customized Pine 4.56

Sendmail 8.12.9

Why we chose it, and why we rebuilt and used "unstable"

Bastille Linux auto-loaded and ran by default

Other Features

Installs and boots up in a locked-down state

Host and network based intrusion detection included

Includes many security, encryption and privacy tools

Demonstration of nmrcOS

Live demo of the installation procedure

Configuration of nmrcOS

How to maintain/upgrade an nmrcOS system

Developing for nmrcOS



Creating a non-kernel package

Creating a kernel package

Distributing your package

Creating your own distro based on nmrcOS

Future of nmrcOS

Plans for future revisions of the system

Questions and Followup

<http://nmrcos.nmrc.org/>

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