

About me

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Outline

- 1 Bachelor's degree graduation project
- 2 Side projects
- 3 Misc

The Container Security in Healthcare Data Exchange System

Idea

Fine-grained program has fine-grained system call permissions.

micro-programs / micro-kernel

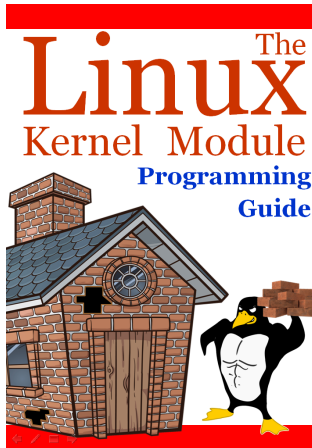
Researches

- System call collection set
- Namespace & Cgroup secure policy
- File secure policy
- Kernel exploit prevention
- Sandbox performance benchmark

LKMPG

Contributor of the Linux Kernel
Module Programming Guide
(updated for 5.x kernels)

<https://sysprog21.github.io/lkmpg/>



Debian reference

[Debian Reference](#), a terse user's guide with the focus on the shell command line.

First traditional Chinese translator



High scalable VPN server

- Video demo
- GitHub
- Low-cost, Scalability, Optimizing
- Can it be auto-tuned?
- Runtime load balancer?

My cloud

Distributed private server with docker swarm

- load balancer
- Nextcloud
- VPN

Clean code philosophy

Code review

Assignment extentions

- Macro meta-programming (System Programming prof. Richard Lin)
- Impl. partial GNU tar extension (Object-Oriented Programming prof. Chiang)
- Full HTTP stack based on TCP over UDP (Computer Network prof. Wei-Kuang Lai)
- ⋮

SystemC pull request

Story and [Link](#)