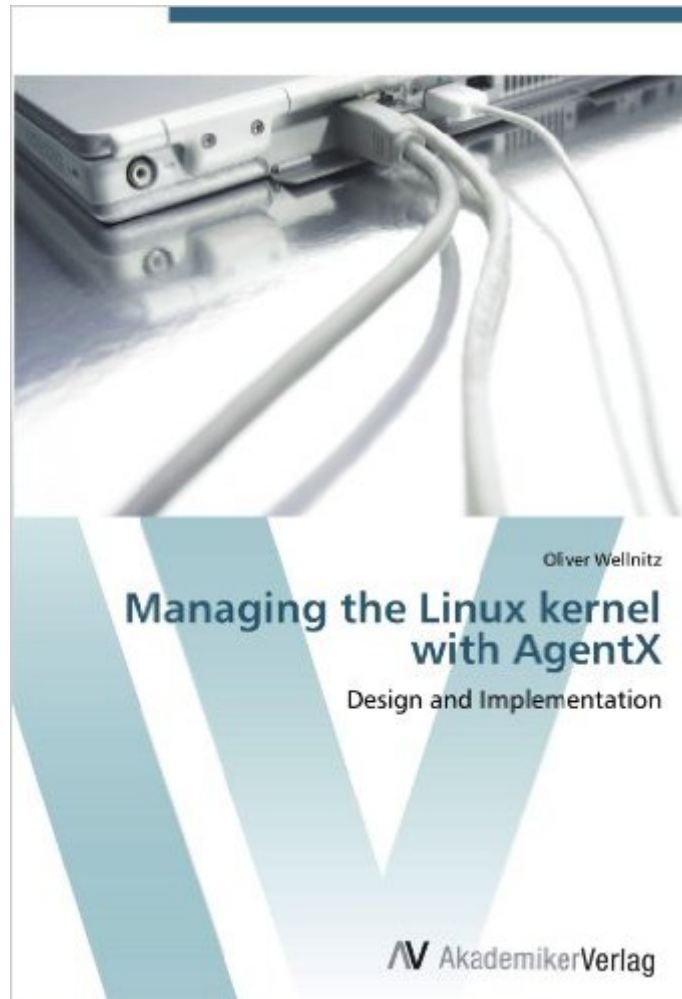# Managing The Linux Kernel With AgentX: Design And Implementation

Synopsis

Revision with unchanged content. Network management is essential for the operation and supervision of meÂ- dium to large computer networks. The Simple Network Management Protocol (SNMP) is the standard protocol for network management in the Internet. OrÂ- diÂ- nary SNMP agents are mostly monolithic, run in the user-space and often poll information from the OS kernel. This book examines to what extent the IETF standard sub-agent protocol AgentX is suitable for the management of UNIX/Linux kernel components. For this purpose, AgentX sub-agents have been implemented inside the kernel subsystem they manage. They use the AgentX protocol for communication with a master agent in user-space. With this approach, kernel subsystems can be managed in an efficient and comÂ- preÂ- henÂ- sive way. The author describes the general design of this new in-kernel manageÂ- ment architecture and its interface to the user-space. As an example, two kernel sub-systems, namely the network interfaces and Linux Netfilter, are implemented as MIB modules and explained. This book is intended for software developers of network and system maÂ- nageÂ- ment solutions as well as researchers in this area.

Book Information

Paperback: 92 pages

Publisher: AV Akademikerverlag (May 8, 2012)

Language: English

ISBN-10: 3639406443

ISBN-13: 978-3639406443

Product Dimensions: 5.9 x 0.2 x 8.7 inches

Shipping Weight: 6.6 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #11,452,735 in Books (See Top 100 in Books)   #21 inÂ Books > Computers & Technology > Operating Systems > Linux > Kernel & Peripherals

Download to continue reading...

Managing the Linux kernel with AgentX: Design and Implementation Linux: Linux Command Line - A Complete Introduction To The Linux Operating System And Command Line (With Pics) (Unix, Linux kemel, Linux command line, ... CSS, C++, Java, PHP, Excel, code) (Volume 1) IA-64 Linux Kernel: Design and Implementation LINUX: Easy Linux For Beginners, Your Step-By-Step Guide To Learning The Linux Operating System And Command Line (Linux Series) Embedded Linux Porting on ARM & RFID Implementation Using ARM SoC: Developing a flexible and agile Board Secure

Package Linux with multiple applications Linux Administration: The Linux Operating System and Command Line Guide for Linux Administrators CompTIA Linux+ Powered by Linux Professional Institute Study Guide: Exam LX0-103 and Exam LX0-104 (Comptia Linux + Study Guide) Linux For Beginners: The Ultimate Guide To The Linux Operating System & Linux LINUX Kernel Internals Understanding the Linux Kernel learning by doing: LINUX kernel guide(Chinese Edition) Linux Kernel Development Using Linux Kernel Version 2.0 to 2.2 (Keeping Ahead) The Linux Kernel Linux Kernel Architecture (Sams White Book Series) Linux Kernel Architecture Understanding the Linux Kernel by Daniel P. Bovet (Nov 24 2005) Understanding the Linux Kernel 3th (third) edition Text Only The Linux Kernel Primer MCTS Self-Paced Training Kit (Exam 70-432): MicrosoftÃ Â® SQL ServerÃ Â® 2008 - Implementation and Maintenance: Microsoft SQL Server 2008--Implementation and Maintenance (Microsoft Press Training Kit)