NFS Illustrated

Brent Callaghan

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The Network File System (NFS) protocol that enables remote access to files is now a key element of any LAN. It is also currently and increasingly used as a key technology with the Web and wide area networks. Written for programmers creating NFS-based applications, network engineers creating new implementations of NFS, and network managers, *NFS Illustrated* promotes a thorough understanding of that protocol through extensive diagrams and real protocol traces that show NFS in action. Covering NFS versions 2 and 3, the book also looks into WebNFS and the new NFS version 4, with Internet support. Detailed and authoritative, the book not only examines NFS in depth, but also describes the protocols that underlie and support it, including External Data Representation (XDR), Remote Procedure Call (RPC), the NFS MOUNT protocol, and the NFS Lock Manager protocol. It discusses several NFS variants and compares NFS to a number of alternative file systems.
You will find a detailed discussion on the NFS filesystem model and a procedure-by-procedure description of NFS versions 2 and 3, illustrated through the use of snoop traces that capture and display protocol packets from the network. In addition, the book addresses real-world implementation issues faced by those building an NFS client or server, factors that affect NFS performance, and critical performance benchmarks.
Specific topics of interest include:

- NFS version 4, highlighting performance improvements, security features, and cross-platform interoperability for Internet operation
- RPC authentication and security
- Differences between NFS versions 2 and 3
- Implementation issues for clients and servers
- Read-ahead and write-behind
- Caching policies
- The Lock Manager protocol
- Automounting
- NFS variants, including Spritely NFS, NQNFS, Trusted NFS, and NASD NFS
- NFS competitors: RFS, AFS, DCE/DFS, and CIFS
- The PCNFS protocol for implementing NFS on PC operating systems
- SPEC SFS benchmarks, WebNFS, and firewalls

Comprehensive and current, *NFS Illustrated* is an essential resource for network professionals who want to use this widespread and evolving technology to its fullest.

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Daryl Biddle:

Spent a free time to be fun activity to complete! A lot of people spent their leisure time with their family, or all their friends. Usually they carrying out activity like watching television, going to beach, or picnic within the park. They actually doing same task every week. Do you feel it? Do you need to something different to fill your own free time/ holiday? Can be reading a book can be option to fill your no cost time/ holiday. The first thing you ask may be what kinds of e-book that you should read. If you want to consider look for book, may be the publication untitled NFS Illustrated can be fine book to read. May be it might be best activity to you.

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