

Chapter 2 Configuring A Network Operating System

VM (operating system)

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VM, often written VM/CMS, is a family of virtual machine operating systems used on IBM mainframes including the System/370, System/390, IBM Z and compatible systems. It replaced the older CP-67 that formed the basis of the CP/CMS operating system. It was first released as the free Virtual Machine Facility/370 for the S/370 in 1972, followed by chargeable upgrades and versions that added support for new hardware.

VM creates virtual machines into which a conventional operating system may be loaded to allow user programs to run. Originally, that operating system was CMS, a simple single-user system similar to DOS. VM can also be used with a number of other IBM operating systems, including large systems like MVS or VSE, which are often run on their own without VM. In other cases, VM is used with...

Comparison of IPv6 support in operating systems

This is a comparison of operating systems in regard to their support of the IPv6 protocol. Operating systems that support neither DHCPv6 nor SLAAC cannot

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Arista Networks

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Arista Networks, Inc. (formerly Arastra) is an American computer networking company headquartered in Santa Clara, California. The company designs and sells multilayer network switches to deliver software-defined networking (SDN) for large datacenter, cloud computing, high-performance computing, and high-frequency trading environments. These products include 10/25/40/50/100/200/400/800 gigabit low-latency cut-through Ethernet switches. Arista's Linux-based network operating system, Extensible Operating System (EOS), runs on all Arista products.

Virtual private network

emerged. Desktop, smartphone and other end-user device operating systems usually support configuring remote access VPN from their graphical or command-line

Virtual private network (VPN) is a network architecture for virtually extending a private network (i.e. any computer network which is not the public Internet) across one or multiple other networks which are either untrusted (as they are not controlled by the entity aiming to implement the VPN) or need to be isolated (thus making the lower network invisible or not directly usable).

A VPN can extend access to a private network to users who do not have direct access to it, such as an office network allowing secure access from off-site over the Internet. This is achieved by creating a link between computing devices and computer networks by the use of network tunneling protocols.

It is possible to make a VPN secure to use on top of insecure communication medium (such as the public internet) by...

Overlay network

network. For example, distributed systems such as peer-to-peer networks are overlay networks because their nodes form networks over existing network connections

An overlay network is a logical computer network that is layered on top of a physical network. The concept of overlay networking is distinct from the traditional model of OSI layered networks, and almost always assumes that the underlay network is an IP network of some kind.

Some examples of overlay networking technologies are, VXLAN, BGP VPNs, and IP over IP technologies, such as GRE, IPSEC tunnels, or SD-WAN.

File system

a file system or filesystem (often abbreviated to FS or fs) governs file organization and access. A local file system is a capability of an operating

In computing, a file system or filesystem (often abbreviated to FS or fs) governs file organization

and access. A local file system is a capability of an operating system that services the applications running on the same computer. A distributed file system is a protocol that provides file access between networked computers.

A file system provides a data storage service that allows applications to share mass storage. Without a file system, applications could access the storage in incompatible ways that lead to resource contention, data corruption and data loss.

There are many file system designs and implementations - with various structure and features and various resulting characteristics such as speed, flexibility, security, size and more.

File systems have been developed for many types of...

Local area network

would have its own type of network card, cabling, protocol, and network operating system. A solution appeared with the advent of Novell NetWare which provided

A local area network (LAN) is a computer network that interconnects computers within a limited area such as a residence, campus, or building, and has its network equipment and interconnects locally managed. LANs facilitate the distribution of data and sharing network devices, such as printers.

The LAN contrasts the wide area network (WAN), which not only covers a larger geographic distance, but also generally involves leased telecommunication circuits or Internet links. An even greater contrast is the Internet, which is a system of globally connected business and personal

computers.

Ethernet and Wi-Fi are the two most common technologies used for local area networks; historical network technologies include ARCNET, Token Ring, and LocalTalk.

LAN Manager

succeed 3Com's 3+Share network server software which ran atop a heavily modified version of MS-DOS. The LAN Manager OS/2 operating system was co-developed by

LAN Manager is a discontinued network operating system (NOS) available from multiple vendors and developed by Microsoft in cooperation with 3Com Corporation. It was designed to succeed 3Com's 3+Share network server software which ran atop a heavily modified version of MS-DOS.

Router (computing)

Practical Guide to Advanced Networking. Pearson Education. ISBN 978-0-13-335400-3. Lawson, Wayne (8 February 2001). Configuring Cisco AVVID. Elsevier.

A router is a computer and networking device that forwards data packets between computer networks, including internetworks such as the global Internet.

Routers perform the "traffic directing" functions on the Internet. A router is connected to two or more data lines from different IP networks. When a data packet comes in on a line, the router reads the network address information in the packet header to determine the ultimate destination. Then, using information in its routing table or routing policy, it directs the packet to

the next network on its journey. Data packets are forwarded from one router to another through an internetwork until it reaches its destination node.

The most familiar type of IP routers are home and small office routers that forward IP packets between the home computers...

VirtualBox

BSD, OS/2, Solaris, Haiku, and OSx86, as well as limited virtualization of macOS guests on Apple hardware. For some guest operating systems, a "Guest Additions"

Oracle VirtualBox (formerly Sun VirtualBox, Sun xVM VirtualBox and InnoTek VirtualBox) is a hosted hypervisor for x86 and ARM virtualization developed by Oracle Corporation. VirtualBox was originally created by InnoTek Systemberatung GmbH, which was acquired by Sun Microsystems in 2008, which was in turn acquired by Oracle in 2010.

VirtualBox may be installed on Microsoft Windows, macOS, Linux, Solaris and OpenSolaris. There are also ports to FreeBSD and Genode. It supports the creation and management of guest virtual machines running Windows, Linux, BSD, OS/2, Solaris, Haiku, and OSx86, as well as limited virtualization of macOS guests on Apple hardware. For some guest operating systems, a "Guest Additions" package of device drivers and system applications is available, which typically improves...

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