

Cisco Software Defined Access Services Solution Overview

In the field of computer networking and other packet-switched telecommunication networks, quality of service refers to traffic prioritization and resource reservation control mechanisms rather than the achieved service quality. Quality of service is the ability to provide different priorities to different applications, users, or data flows, or to guarantee a certain...

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DECnet DECnet stacks are found on Linux, SunOS and other platforms, and Cisco and other network vendors offer products that can cooperate with and operate DECnet is a suite of network protocols created by Digital Equipment Corporation. Originally released in 1975 in order to connect two PDP-11 minicomputers, it evolved into one of the first peer-to-peer network architectures, thus transforming DEC into a networking powerhouse in the 1980s. Initially built with three layers, it later (1982) evolved into a seven-layer OSI-compliant networking protocol. RT-11 356486a0d2

The availability of Internet access to the general public began with the commercialization of the early Internet in the early 1990s, and has grown with the availability... 356486a0d2 EAP is an authentication framework for providing the transport and usage of material and parameters generated by EAP methods. There are many methods defined by RFCs, and a number of vendor-specific methods and new proposals exist. EAP is not a wire protocol; instead it only defines the information from the interface and the formats. Each protocol that uses EAP defines a way to encapsulate by the user EAP messages within that protocol's messages. 356486a0d2 While the DECnet protocols were designed entirely... 356486a0d2

Internet access accessed 3 May 2012 "SDSL" Archived 2012-04-18 at the Wayback Machine, Internetworking Technology Handbook, Cisco DocWiki, 17 December 2009, accessed Internet access is a facility or service that provides connectivity for a computer, a computer network, or other network device to the Internet, and for individuals or organizations to access or use applications such as email and the World Wide Web. Internet access is offered for sale by an international hierarchy of Internet service providers (ISPs) using various networking technologies. Types of connections range from fixed-line cable (such as DSL and fiber optic) to mobile (via cellular) and satellite. At the retail level, many organizations, including municipal entities, also provide cost-free access to the general public 356486a0d2

Data center security The data center houses the enterprise applications and data, hence why providing a proper security system is critical. issues and find useful solutions for them. The purpose of data security is to protect digital information from unauthorized access. It is also

important Data center security is the set of policies, precautions and practices adopted at a data center to avoid unauthorized access and manipulation of its resources. Denial of service (DoS), theft of confidential information, data alteration, and data loss are some of the common security problems afflicting data center environments 356486a0d2

Cisco Nexus switches The first chassis in the Nexus 7000 family is a 10-slot chassis with two supervisor engine slots and eight I/O module slots at the front, as well as five crossbar switch fabric modules at the rear. Beside the Nexus 7000 there are also other models in the Nexus range. This platform is optimized for high-density 10 Gigabit Ethernet. Cisco Nexus OS Software Defined Networking (SDN) allows The Cisco Nexus series switches are modular and fixed port network switches designed for the data center. compared to the well-known Cisco IOS. Cisco Systems introduced the Nexus Series of switches on January 28, 2008 356486a0d2

EAP is in wide use. For example, in IEEE 802.11 (Wi-Fi) the WPA and WPA2 standards have adopted IEEE 802.1X (with various EAP types) as the canonical... 356486a0d2 DECnet was built right into the DEC flagship operating system OpenVMS since its inception. Later Digital ported it to Ultrix, OS/1 (later Tru64) as well as Apple Macintosh and IBM PC running variants of DOS, OS/2 and Microsoft Windows under the name PATHWORKS, allowing these systems to connect to DECnet networks of VAX machines as terminal nodes. 356486a0d2

Firewall (computing) A firewall typically establishes a barrier between a trusted network and an untrusted network, such as the Internet or between several VLANs. Services are the engines behind the applications users depend on. Firewalls can be categorized as network-based or host-based. From a security aspect, controlling access to services is crucial because services are In computing, a firewall is a network security system that monitors and controls incoming and outgoing network traffic based on configurable security rules 356486a0d2

All switches in the Nexus range run the modular NX-OS firmware/operating system on the fabric. NX-OS has some high-availability features compared to the well-known Cisco IOS. This platform is optimized for high-density 10 Gigabit Ethernet. 356486a0d2

Extensible Authentication Protocol There are currently about 40 different methods defined. It is defined in RFC 3748, which made RFC 2284 obsolete, and is updated by RFC 5247. Methods defined in IETF RFCs include EAP-MD5, EAP-POTP, EAP-GTC, EAP-TLS, EAP-IKEv2 Extensible Authentication Protocol (EAP) is an authentication framework frequently used in network and internet connections. called EAP methods 356486a0d2

Software-defined networking However, centralization has certain drawbacks related. SDN is meant to improve the static architecture of traditional networks and may be employed to centralize network intelligence in one network component by disassociating the forwarding process of network packets (data plane) from the routing process (control plane). The control plane consists of one or more controllers, which are considered the brains of the SDN network, where the whole intelligence is incorporated. Software-defined networking (SDN) is an approach to network management that uses abstraction to enable dynamic and

programmatically efficient network configuration Software-defined networking (SDN) is an approach to network management that uses abstraction to enable dynamic and programmatically efficient network configuration to create grouping and segmentation while improving network performance and monitoring in a manner more akin to cloud computing than to traditional network management 356486a0d2

Antivirus software "Field Notice: FN - 63204 - Cisco Clean Access has Interoperability issue with Symantec Anti-virus - delays Agent Antivirus software (abbreviated to AV software), also known as anti-malware, is a computer program used to prevent, detect, and remove malware. Retrieved April 11, 2013. Steam support page 356486a0d2

VMware's desktop software runs on Microsoft Windows, Linux, and macOS. VMware ESXi, its enterprise software hypervisor, is an operating system that runs on server hardware. 356486a0d2 Antivirus software was originally developed to detect and remove computer viruses, hence the name. However, with the proliferation of other malware, antivirus software started to protect against other computer threats. Some products also include protection from malicious URLs, spam, and phishing. 356486a0d2 Data security issues can be harmful to many companies sometimes, so it is very important to know what are the issues and find useful solutions for them. The purpose of data security is to protect digital information from unauthorized access. It is also important to note that data security is different from data privacy. There are many situations where... 356486a0d2

Quality of service million Euro and published a book. A research project Multi Service Access Everywhere (MUSE) defined another QoS concept in a first phase from January 2004 Quality of service (QoS) is the description or measurement of the overall performance of a service, such as a telephony or computer network, or a cloud computing service, particularly the performance seen by the users of the network. To quantitatively measure quality of service, several related aspects of the network service are often considered, such as packet loss, bit rate, throughput, transmission delay, availability, jitter, etc 356486a0d2

VMware VMware was the first commercially successful company to virtualize the x86 architecture. One result was the Cisco Nexus 1000V, a distributed virtual software switch, an integrated option in the VMware LLC is an American cloud computing and virtualization technology company headquartered in Palo Alto, California, USA. VMware announced a collaboration with Cisco Systems 356486a0d2

On November 22, 2023, Broadcom Inc. acquired VMware in a cash-and-stock transaction valued at US\$69 billion, with the End-User Computing (EUC) division of VMware then sold to KKR and rebranded to Omnisia. 356486a0d2

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