Ssl Secure Socket Layer

== Principle of TLS acceleration operation == 64fe78aa37 Typically this means having a separate card that plugs into a PCI slot in a computer that contains one or more coprocessors able to handle much of the SSL processing. 64fe78aa37 Typically a hardware... 64fe78aa37

SSL Oxford, United Kingdom Secure Sockets Layer, a former standard link encryption technology, deprecated in 2015 Transport Layer Security, the successor SSL may refer to: 64fe78aa37

The following documents define DTLS: 64fe78aa37

FTPS FTPS (also known as FTP-SSL and FTP Secure) is an extension to the commonly used File Transfer Protocol (FTP) that adds support for the Transport Layer Security (TLS) and, formerly, the Secure Sockets Layer (SSL, which is now prohibited by RFC7568) cryptographic protocols. support for the Transport Layer Security (TLS) and, formerly, the Secure Sockets Layer (SSL, which is now prohibited by RFC7568) cryptographic protocols 64fe78aa37

== See also == 64fe78aa37 SSTP servers must be authenticated during the SSL/TLS phase. SSTP clients can optionally be authenticated during the SSL/TLS phase and must be authenticated in the PPP phase. The use of PPP allows support for common authentication methods, such as EAP-TLS and MS-CHAP. 64fe78aa37 Sesame Street Live, a touring version of the children's television show 64fe78aa37 This work began in 1991 as a theoretical investigation by Lam and Shankar on the formal meaning of a protocol layer satisfying an upper interface specification as a service provider and a lower interface specification as a service consumer. A case study of adding a security layer between the application layer and network layer was presented. 64fe78aa37 == Definition == 64fe78aa37 FTPS should not be confused with the SSH File Transfer Protocol (SFTP), a secure file transfer subsystem for the Secure Shell (SSH) protocol with which it is not compatible. It is also different from FTP over SSH, which is the practice of tunneling FTP through an SSH connection. 64fe78aa37 The TLS protocol aims primarily to provide security, including privacy (confidentiality), integrity, and authenticity through the use of cryptography, such as the use of certificates, between two or more communicating computer applications. It runs in the presentation layer and is itself composed of two layers: the TLS record and the TLS handshake protocols. 64fe78aa37

Secure Socket Tunneling Protocol In computer networking, Secure Socket Tunneling Protocol (SSTP) is a form of virtual private network (VPN) tunnel that provides a mechanism to transport In computer networking, Secure Socket Tunneling Protocol (SSTP) is a form of virtual private network (VPN) tunnel that provides a mechanism to transport Point-to-Point Protocol (PPP) traffic through an SSL/TLS channel 64fe78aa37

The closely-related Datagram Transport Layer Security (DTLS) is a communications protocol that provides security to datagram-based applications. In technical writing, references to "(D)TLS" are often seen when it applies to both versions. 64fe78aa37 TLS accelerators may use off-the-shelf CPUs, but most use custom ASIC and RISC chips to do most of the difficult computational work. 64fe78aa37 All comparison categories use the stable version of each implementation listed in the overview section. The comparison is limited to features that directly relate to the TLS protocol. 64fe78aa37 The File Transfer Protocol was drafted in 1971 for use with the scientific and research network, ARPANET. Access to the ARPANET during this time was limited to a small number of military sites and universities and a narrow community of users who could operate without data security and privacy requirements within the protocol. 64fe78aa37 SSTP was introduced in 2007 and available on Windows Vista SP1 and later, in RouterOS since version 5.0, and in SEIL since its firmware version 3.50. It is fully integrated with the RRAS architecture in these operating systems, allowing its use with Winlogon or smart-card authentication, remote-access policies and the Windows VPN client. The protocol is also used... 64fe78aa37 Simon S. Lam was inducted into the Internet Hall of Fame (2023) for "inventing secure sockets in 1991 and implementing the first secure sockets layer, named SNP, in 1993." 64fe78aa37 == Protocol == 64fe78aa37 Super Smash Land, a Super Smash Bros. fangame 64fe78aa37

Secure Network Programming Secure Network Programming (SNP) is a prototype of the first Secure Sockets Layer, designed and built in 1993 by the Networking Research Laboratory at Secure Network Programming (SNP) is a prototype of the first Secure Sockets Layer, designed and built in 1993 by the Networking Research Laboratory at the University of Texas at Austin, led by Simon S. Lam 64fe78aa37

Transport Layer Security The protocol is widely used in applications such as email, instant messaging, and voice over IP, but its use in securing HTTPS remains the most publicly visible. 1. TLS builds on the now-deprecated SSL (Secure Sockets Layer) specifications (1994, 1995, 1996) developed by Netscape Communications Transport Layer Security (TLS) is a cryptographic protocol

designed to provide communications security over a computer network, such as the Internet. 3, defined in August 2018 64fe78aa37

== Arts and media == 64fe78aa37 == Background == 64fe78aa37 Java KeyStore 64fe78aa37 Shifting Sand Land, a level in Super Mario 64 64fe78aa37 In 1994, the... 64fe78aa37

HTTPS The protocol is therefore also referred to as HTTP over TLS, or HTTP over SSL. It uses encryption for secure communication over a computer network, and is widely used on the Internet. The protocol is therefore also referred to as HTTP over TLS, or HTTP over SSL. The Hypertext Transfer Protocol Secure (HTTPS) is an extension of the Hypertext Transfer Protocol (HTTP). Transport Layer Security (TLS) or, formerly, Secure Sockets Layer (SSL). In HTTPS, the communication protocol is encrypted using Transport Layer Security (TLS) or, formerly, Secure Sockets Layer (SSL) 64fe78aa37

== History == 64fe78aa37 SOOP StarCraft League, formerly known as AfreecaTV StarCraft League 64fe78aa37 The principal motivations for HTTPS are authentication of the accessed website and protection of the privacy and integrity of the exchanged data while it is in transit. It protects against man-in-the-middle attacks, and the bidirectional block cipher encryption of communications between a client and server protects the communications against eavesdropping and tampering. The authentication aspect of HTTPS requires a trusted third party to sign server-side digital certificates. This was historically an expensive operation, which meant fully authenticated HTTPS connections were usually found only on secured payment transaction services and other secured corporate information systems on the World Wide Web. In 2016, a campaign by the Electronic Frontier Foundation with the support... 64fe78aa37

TLS acceleration Typically this means having a separate TLS acceleration (formerly known as SSL acceleration) is a method of offloading processor-intensive public-key encryption for Transport Layer Security (TLS) and its predecessor Secure Sockets Layer (SSL) to a hardware accelerator. encryption for Transport Layer Security (TLS) and its predecessor Secure Sockets Layer (SSL) to a hardware accelerator 64fe78aa37

== Overview == 64fe78aa37 Supersonic Legend, a rank in Rocket League 64fe78aa37 SSL/TLS provides transport-level security with key negotiation, encryption and traffic integrity checking. The use of SSL/TLS over TCP port 443 (by default; port can be changed) allows SSTP to pass through virtually all firewalls and proxy servers except for authenticated web proxies. 64fe78aa37 As the ARPANET gave way to the NSFNET and then the Internet, a broader population potentially had access to the data as it traversed increasingly longer paths from client to server. The opportunity for unauthorized third parties to eavesdrop on data transmissions increased proportionally. 64fe78aa37 StarCraft II StarLeague, a Korean league in the video game 64fe78aa37

Datagram Transport Layer Security Because DTLS uses UDP or SCTP rather than TCP it avoids the TCP meltdown problem when being used to create a VPN tunnel. Citrix Systems NetScaler uses DTLS to secure UDP. Web browsers: Datagram Transport Layer Security (DTLS) is a communications protocol providing security to datagram-based applications by allowing them to communicate in a way designed to prevent eavesdropping, tampering, or message forgery. and DTLS. Fortinet's SSL VPN and Array Networks SSL VPN also use DTLS for VPN tunneling. The DTLS protocol is based on the stream-oriented Transport Layer Security (TLS) protocol and is intended to provide similar security guarantees. The DTLS protocol datagram preserves the semantics of the underlying transport—the application does not suffer from the delays associated with stream protocols, but because it uses User Datagram Protocol (UDP) or Stream Control Transmission Protocol (SCTP), the application has to deal with packet reordering, loss of datagram and data larger than the size of a datagram network packet 64fe78aa37

The most computationally expensive part of a TLS session is the TLS handshake, where the TLS server (usually a webserver) and the TLS client (usually a web browser) agree on a number of parameters that establish the security of the connection. During the TLS handshake the server and the client establish session keys (symmetric keys, used for the duration of a given session), but the encryption and signature of the TLS handshake messages itself is done using asymmetric keys, which requires more computational power than the symmetric cryptography used for the encryption/decryption of the session data. 64fe78aa37

Comparison of TLS implementations Retrieved 2026-04-28. "wolfSSL ChangeLog". "wolfSSL Embedded SSL/TLS". Prohibiting Secure Sockets Layer (SSL) Version The Transport Layer Security (TLS) protocol provides the ability to secure communications across or inside networks. There are several TLS implementations which are free software and open source. 2026-04-08. This comparison of TLS implementations compares several of the most notable libraries. Retrieved 2016-05-03 64fe78aa37

SSTP is available for Linux, BSD, and Windows. 64fe78aa37 Simon Lam wrote a proposal to the National Security Agency (NSA) in 1991 to investigate how to apply the theory of interfaces and modules to security verification. The proposal was funded from 6/28/1991 to 6/27/1993. At that time, there were three well-known authentication systems built (MIT's Kerberos) or being developed... 64fe78aa37 JSSE was originally developed as an optional package for Java versions 1.2 and 1.3, but was added as a standard API and implementation into JDK 1.4. 64fe78aa37 This work was published in the 1994 USENIX Summer Technical Conference. For this project, the authors won the 2004 ACM Software System Award. 64fe78aa37

Java Secure Socket Extension It implements a Java technology version of the Secure Sockets Layer (SSL) and the Transport Layer Security (TLS) protocols. It implements a Java technology version of the Secure Sockets Layer (SSL) and the Transport Layer Security (TLS) protocols. Environment. It includes functionality In computing, the Java Secure Socket Extension (JSSE) is a Java API and a provider implementation named SunJSSE that enable secure Internet communications in the Java Runtime Environment. It includes functionality for data encryption, server authentication, message integrity, and optional client-authentication 64fe78aa37

TLS is a proposed Internet Engineering Task Force (IETF) standard, first defined in 1999, and the current version is TLS 1.3, defined in August 2018. TLS builds on the now-deprecated SSL (Secure Sockets Layer) specifications (1994, 1995, 1996) developed by Netscape Communications for adding... 64fe78aa37

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