Rocky Enterprise Linux 9.2 Manual Pages on command 'SSL_CTX_get0_verify_cert_store.3ossl'

$ man SSL_CTX_get0_verify_cert_store.3ossl

SSL_CTX_SET1_VERIFY_CERT_STORE(3osslOpenSSSL_CTX_SET1_VERIFY_CERT_STORE(3ossl)

NAME

SSL_CTX_set0_verify_cert_store, SSL_CTX_set1_verify_cert_store,

SSL_CTX_set0_chain_cert_store, SSL_CTX_set1_chain_cert_store,

SSL_set0_verify_cert_store, SSL_set1_verify_cert_store,

SSL_set0_chain_cert_store, SSL_set1_chain_cert_store,

SSL_CTX_get0_verify_cert_store, SSL_CTX_get0_chain_cert_store,

SSL_get0_verify_cert_store, SSL_get0_chain_cert_store - set certificate

verification or chain store

SYNOPSIS

#include <openssl/ssl.h>

int SSL_CTX_set0_verify_cert_store(SSL_CTX *ctx, X509_STORE *st);

int SSL_CTX_set1_verify_cert_store(SSL_CTX *ctx, X509_STORE *st);

int SSL_CTX_set0_chain_cert_store(SSL_CTX *ctx, X509_STORE *st);

int SSL_CTX_set1_chain_cert_store(SSL_CTX *ctx, X509_STORE *st);

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int SSL_CTX_get0_verify_cert_store(SSL_CTX *ctx, X509_STORE **st);
int SSL_CTX_get0_chain_cert_store(SSL_CTX *ctx, X509_STORE **st);

int SSL_set0_verify_cert_store(SSL *ctx, X509_STORE *st);
int SSL_set1_verify_cert_store(SSL *ctx, X509_STORE *st);
int SSL_set0_chain_cert_store(SSL *ctx, X509_STORE *st);
int SSL_set1_chain_cert_store(SSL *ctx, X509_STORE *st);
int SSL_get0_verify_cert_store(SSL *ctx, X509_STORE **st);
int SSL_get0_chain_cert_store(SSL *ctx, X509_STORE **st);
```

DESCRIPTION

SSL_CTX_set0_verify_cert_store() and SSL_CTX_set1_verify_cert_store() set the certificate store used for certificate verification to st.

SSL_CTX_set0_chain_cert_store() and SSL_CTX_set1_chain_cert_store() set the certificate store used for certificate chain building to st.

SSL_set0_verify_cert_store(), SSL_set1_verify_cert_store(), SSL_set0_chain_cert_store() and SSL_set1_chain_cert_store() are similar except they apply to SSL structure ssl.

SSL_CTX_get0_verify_chain_store(), SSL_get0_verify_chain_store(), SSL_CTX_get0_chain_cert_store() and SSL_get0_chain_cert_store() retrieve the objects previously set via the above calls. A pointer to the object (or NULL if no such object has been set) is written to *st.

All these functions are implemented as macros. Those containing a 1 increment the reference count of the supplied store so it must be freed at some point after the operation. Those containing a 0 do not increment reference counts and the supplied store MUST NOT be freed after the operation.

NOTES

The stores pointers associated with an SSL_CTX structure are copied to any SSL structures when SSL_new() is called. As a result SSL structures will not be affected if the parent SSL_CTX store pointer is set to a new value.

The verification store is used to verify the certificate chain sent by the peer: that is an SSL/TLS client will use the verification store to verify the server's certificate chain and a SSL/TLS server will use it to verify any client certificate chain.

The chain store is used to build the certificate chain. Details of the chain building and checking process are described in "Certification Path Building" in openssl-verification-options(1) and "Certification Path Validation" in openssl-verification-options(1).

If the mode SSL_MODE_NO_AUTO_CHAIN is set or a certificate chain is configured already (for example using the functions such as SSL_CTX_add1_chain_cert(3) or SSL_CTX_add_extra_chain_cert(3)) then automatic chain building is disabled.

If the mode SSL_MODE_NO_AUTO_CHAIN is set then automatic chain building is disabled.

If the chain or the verification store is not set then the store associated with the parent SSL_CTX is used instead to retain compatibility with previous versions of OpenSSL.

RETURN VALUES

All these functions return 1 for success and 0 for failure.

SEE ALSO

ssl(7), SSL_CTX_add_extra_chain_cert(3) SSL_CTX_set0_chain(3) SSL_CTX_set1_chain(3) SSL_CTX_add0_chain_cert(3)

SSL_CTX_add1_chain_cert(3) SSL_set0_chain(3) SSL_set1_chain(3)

SSL_add0_chain_cert(3) SSL_add1_chain_cert(3)

SSL_CTX_build_cert_chain(3) SSL_build_cert_chain(3)

HISTORY

These functions were added in OpenSSL 1.0.2.

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