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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'OPENSSL\_init\_ssl.3ossl'***

***\$ man OPENSSL\_init\_ssl.3ossl***

OPENSSL\_INIT\_SSL(3ossl)      OpenSSL      OPENSSL\_INIT\_SSL(3ossl)

#### NAME

OPENSSL\_init\_ssl - OpenSSL (libssl and libcrypto) initialisation

#### SYNOPSIS

```
#include <openssl/ssl.h>
```

```
int OPENSSL_init_ssl(uint64_t opts, const OPENSSL_INIT_SETTINGS *settings);
```

#### DESCRIPTION

During normal operation OpenSSL (libssl and libcrypto) will allocate various resources at start up that must, subsequently, be freed on close down of the library. Additionally some resources are allocated on a per thread basis (if the application is multi-threaded), and these resources must be freed prior to the thread closing.

As of version 1.1.0 OpenSSL will automatically allocate all resources

that it needs so no explicit initialisation is required. Similarly it will also automatically deinitialise as required.

However, there may be situations when explicit initialisation is desirable or needed, for example when some nondefault initialisation is required. The function `OPENSSL_init_ssl()` can be used for this purpose. Calling this function will explicitly initialise BOTH `libcrypto` and `libssl`. To explicitly initialise ONLY `libcrypto` see the `OPENSSL_init_crypto(3)` function.

Numerous internal OpenSSL functions call `OPENSSL_init_ssl()`. Therefore, in order to perform nondefault initialisation, `OPENSSL_init_ssl()` MUST be called by application code prior to any other OpenSSL function calls.

The `opts` parameter specifies which aspects of `libssl` and `libcrypto` should be initialised. Valid options for `libcrypto` are described on the `OPENSSL_init_crypto(3)` page. In addition to any `libcrypto` specific option the following `libssl` options can also be used:

#### `OPENSSL_INIT_NO_LOAD_SSL_STRINGS`

Suppress automatic loading of the `libssl` error strings. This option is not a default option. Once selected subsequent calls to `OPENSSL_init_ssl()` with the option `OPENSSL_INIT_LOAD_SSL_STRINGS` will be ignored.

#### `OPENSSL_INIT_LOAD_SSL_STRINGS`

Automatic loading of the `libssl` error strings. This option is a default option. Once selected subsequent calls to `OPENSSL_init_ssl()` with the option `OPENSSL_INIT_LOAD_SSL_STRINGS` will be ignored.

`OPENSSL_init_ssl()` takes a settings parameter which can be used to set

parameter values. See `OPENSSL_init_crypto(3)` for details.

## RETURN VALUES

The function `OPENSSL_init_ssl()` returns 1 on success or 0 on error.

## SEE ALSO

`OPENSSL_init_crypto(3)`

## HISTORY

The `OPENSSL_init_ssl()` function was added in OpenSSL 1.1.0.

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