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

\$ man SSL_set_shutdown.3ossl

SSL_SET_SHUTDOWN(3ossl) OpenSSL SSL_SET_SHUTDOWN(3ossl)

NAME

SSL_set_shutdown, SSL_get_shutdown - manipulate shutdown state of an SSL connection

SYNOPSIS

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

void SSL_set_shutdown(SSL *ssl, int mode);

int SSL_get_shutdown(const SSL *ssl);
```

DESCRIPTION

SSL_set_shutdown() sets the shutdown state of ssl to mode.
SSL_get_shutdown() returns the shutdown mode of ssl.

NOTES

The shutdown state of an ssl connection is a bit-mask of:

0 No shutdown setting, yet.

SSL_SENT_SHUTDOWN

A close_notify shutdown alert was sent to the peer, the connection is being considered closed and the session is closed and correct.

SSL_RECEIVED_SHUTDOWN

A shutdown alert was received from the peer, either a normal `close_notify` or a fatal error.

`SSL_SENT_SHUTDOWN` and `SSL_RECEIVED_SHUTDOWN` can be set at the same time.

The shutdown state of the connection is used to determine the state of the ssl session. If the session is still open, when `SSL_clear(3)` or `SSL_free(3)` is called, it is considered bad and removed according to RFC2246. The actual condition for a correctly closed session is `SSL_SENT_SHUTDOWN` (according to the TLS RFC, it is acceptable to only send the `close_notify` alert but to not wait for the peer's answer, when the underlying connection is closed). `SSL_set_shutdown()` can be used to set this state without sending a close alert to the peer (see `SSL_shutdown(3)`).

If a `close_notify` was received, `SSL_RECEIVED_SHUTDOWN` will be set, for setting `SSL_SENT_SHUTDOWN` the application must however still call `SSL_shutdown(3)` or `SSL_set_shutdown()` itself.

RETURN VALUES

`SSL_set_shutdown()` does not return diagnostic information.

`SSL_get_shutdown()` returns the current setting.

SEE ALSO

`ssl(7)`, `SSL_shutdown(3)`, `SSL_CTX_set_quiet_shutdown(3)`, `SSL_clear(3)`,
`SSL_free(3)`

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