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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL_get_shutdown.3ossl' command

\$ man SSL_get_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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