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## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'SSL\_clear.3ossl' command***

***\$ man SSL\_clear.3ossl***

SSL\_CLEAR(3ossl)            OpenSSL            SSL\_CLEAR(3ossl)

### NAME

SSL\_clear - reset SSL object to allow another connection

### SYNOPSIS

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

```
int SSL_clear(SSL *ssl);
```

### DESCRIPTION

Reset ssl to allow another connection. All settings (method, ciphers, BIOs) are kept.

### NOTES

SSL\_clear is used to prepare an SSL object for a new connection. While all settings are kept, a side effect is the handling of the current SSL session. If a session is still open, it is considered bad and will be removed from the session cache, as required by RFC2246. A session is considered open, if SSL\_shutdown(3) was not called for the connection or at least SSL\_set\_shutdown(3) was used to set the SSL\_SENT\_SHUTDOWN state.

If a session was closed cleanly, the session object will be kept and all settings corresponding. This explicitly means, that e.g. the special method used during the session will be kept for the next handshake. So if the session was a TLSv1 session, a SSL client object will use a TLSv1 client method for the next handshake and a SSL server object will use a TLSv1 server method, even if TLS\_\*\_methods were chosen on startup. This will might lead to connection failures (see SSL\_new(3)) for a description of the method's properties.

## WARNINGS

SSL\_clear() resets the SSL object to allow for another connection. The reset operation however keeps several settings of the last sessions (some of these settings were made automatically during the last handshake). It only makes sense for a new connection with the exact same peer that shares these settings, and may fail if that peer changes its settings between connections. Use the sequence SSL\_get\_session(3); SSL\_new(3); SSL\_set\_session(3); SSL\_free(3) instead to avoid such failures (or simply SSL\_free(3); SSL\_new(3) if session reuse is not desired).

## RETURN VALUES

The following return values can occur:

0 The SSL\_clear() operation could not be performed. Check the error stack to find out the reason.

1 The SSL\_clear() operation was successful.

SSL\_new(3), SSL\_free(3), SSL\_shutdown(3), SSL\_set\_shutdown(3),  
SSL\_CTX\_set\_options(3), ssl(7), SSL\_CTX\_set\_client\_cert\_cb(3)

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