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

\$ man SSL_get_version.3ossl

SSL_GET_VERSION(3ossl) OpenSSL SSL_GET_VERSION(3ossl)

NAME

SSL_client_version, SSL_get_version, SSL_is_dtls, SSL_version - get the protocol information of a connection

SYNOPSIS

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

```
int SSL_client_version(const SSL *s);
```

```
const char *SSL_get_version(const SSL *ssl);
```

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

```
int SSL_version(const SSL *s);
```

DESCRIPTION

SSL_client_version() returns the numeric protocol version advertised by the client in the legacy_version field of the ClientHello when initiating the connection. Note that, for TLS, this value will never indicate a version greater than TLSv1.2 even if TLSv1.3 is subsequently negotiated. SSL_get_version() returns the name of the protocol used for

the connection. `SSL_version()` returns the numeric protocol version used for the connection. They should only be called after the initial handshake has been completed. Prior to that the results returned from these functions may be unreliable.

`SSL_is_dtls()` returns one if the connection is using DTLS, zero if not.

RETURN VALUES

`SSL_get_version()` returns one of the following strings:

SSLv3

The connection uses the SSLv3 protocol.

TLSv1

The connection uses the TLSv1.0 protocol.

TLSv1.1

The connection uses the TLSv1.1 protocol.

TLSv1.2

The connection uses the TLSv1.2 protocol.

TLSv1.3

The connection uses the TLSv1.3 protocol.

unknown

This indicates an unknown protocol version.

`SSL_version()` and `SSL_client_version()` return an integer which could include any of the following:

SSL3_VERSION

The connection uses the SSLv3 protocol.

TLS1_VERSION

The connection uses the TLSv1.0 protocol.

TLS1_1_VERSION

The connection uses the TLSv1.1 protocol.

TLS1_2_VERSION

The connection uses the TLSv1.2 protocol.

TLS1_3_VERSION

The connection uses the TLSv1.3 protocol (never returned for `SSL_client_version()`).

SEE ALSO

`ssl(7)`

HISTORY

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

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