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

\$ man SSL_get_cipher_bits.3ossl

SSL_GET_CURRENT_CIPHER(3ossl) OpenSSL SSL_GET_CURRENT_CIPHER(3ossl)

NAME

SSL_get_current_cipher, SSL_get_cipher_name, SSL_get_cipher,
SSL_get_cipher_bits, SSL_get_cipher_version, SSL_get_pending_cipher -
get SSL_CIPHER of a connection

SYNOPSIS

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

const SSL_CIPHER *SSL_get_current_cipher(const SSL *ssl);
const SSL_CIPHER *SSL_get_pending_cipher(const SSL *ssl);

const char *SSL_get_cipher_name(const SSL *s);
const char *SSL_get_cipher(const SSL *s);
int SSL_get_cipher_bits(const SSL *s, int *np);
const char *SSL_get_cipher_version(const SSL *s);
```

DESCRIPTION

SSL_get_current_cipher() returns a pointer to an SSL_CIPHER object containing the description of the actually used cipher of a connection established with the ssl object. See SSL_CIPHER_get_name(3) for more details.

SSL_get_cipher_name() obtains the name of the currently used cipher.

SSL_get_cipher() is identical to SSL_get_cipher_name().

SSL_get_cipher_bits() is a macro to obtain the number of secret/algorithm bits used and SSL_get_cipher_version() returns the protocol name.

SSL_get_pending_cipher() returns a pointer to an SSL_CIPHER object containing the description of the cipher (if any) that has been negotiated for future use on the connection established with the ssl object, but is not yet in use. This may be the case during handshake processing, when control flow can be returned to the application via any of several callback methods. The internal sequencing of handshake processing and callback invocation is not guaranteed to be stable from release to release, and at present only the callback set by SSL_CTX_set_alpn_select_cb() is guaranteed to have a non-NULL return value. Other callbacks may be added to this list over time.

RETURN VALUES

SSL_get_current_cipher() returns the cipher actually used, or NULL if no session has been established.

SSL_get_pending_cipher() returns the cipher to be used at the next change of cipher suite, or NULL if no such cipher is known.

NOTES

SSL_get_cipher, SSL_get_cipher_bits, SSL_get_cipher_version, and SSL_get_cipher_name are implemented as macros.

SEE ALSO

ssl(7), SSL_CIPHER_get_name(3)

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