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

\$ man SSL_CTX_config.3ossl

SSL_CTX_CONFIG(3ossl) OpenSSL SSL_CTX_CONFIG(3ossl)

NAME

SSL_CTX_config, SSL_config - configure SSL_CTX or SSL structure

SYNOPSIS

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

int SSL_CTX_config(SSL_CTX *ctx, const char *name);

int SSL_config(SSL *s, const char *name);
```

DESCRIPTION

The functions `SSL_CTX_config()` and `SSL_config()` configure an `SSL_CTX` or `SSL` structure using the configuration name.

By calling `SSL_CTX_config()` or `SSL_config()` an application can perform many complex tasks based on the contents of the configuration file: greatly simplifying application configuration code. A degree of future proofing can also be achieved: an application can support configuration features in newer versions of OpenSSL automatically.

A configuration file must have been previously loaded, for example using `CONF_modules_load_file()`. See `config(5)` for details of the configuration file syntax.

RETURN VALUES

`SSL_CTX_config()` and `SSL_config()` return 1 for success or 0 if an error occurred.

EXAMPLES

If the file "config.cnf" contains the following:

```

testapp = test_sect

[test_sect]

# list of configuration modules

ssl_conf = ssl_sect

[ssl_sect]

server = server_section

[server_section]

RSA.Certificate = server-rsa.pem

ECDSA.Certificate = server-ecdsa.pem

Ciphers = ALL:!RC4

An application could call:

if (CONF_modules_load_file("config.cnf", "testapp", 0) <= 0) {
    fprintf(stderr, "Error processing config file\n");
    goto err;
}

ctx = SSL_CTX_new(TLS_server_method());

if (SSL_CTX_config(ctx, "server") == 0) {
    fprintf(stderr, "Error configuring server.\n");
    goto err;
}

```

In this example two certificates and the cipher list are configured without the need for any additional application code.

SEE ALSO

ssl(7), config(5), SSL_CONF_cmd(3), CONF_modules_load_file(3)

HISTORY

The SSL_CTX_config() and SSL_config() functions were added in OpenSSL 1.1.0.

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