

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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