

NAME

gnutls_certificate_set_x509_key_file - API function

SYNOPSIS

```
#include <gnutls/gnutls.h>
```

```
int gnutls_certificate_set_x509_key_file(gnutls_certificate_credentials_t res, const char * certfile, const char * keyfile, gnutls_x509_crt_fmt_t type);
```

ARGUMENTS

gnutls_certificate_credentials_t res

is a **gnutls_certificate_credentials_t** type.

const char * certfile

is a file that containing the certificate list (path) for the specified private key, in PKCS7 format, or a list of certificates

const char * keyfile

is a file that contains the private key

gnutls_x509_crt_fmt_t type

is PEM or DER

DESCRIPTION

This function sets a certificate/private key pair in the `gnutls_certificate_credentials_t` type. This function may be called more than once, in case multiple keys/certificates exist for the server. For clients that need to send more than its own end entity certificate, e.g., also an intermediate CA cert, then the

certfile must contain the ordered certificate chain.

Note that the names in the certificate provided will be considered when selecting the appropriate certificate to use (in case of multiple certificate/key pairs).

This function can also accept URLs at *keyfile* and *certfile*. In that case it will use the private key and certificate indicated by the URLs. Note that the supported URLs are the ones indicated by **gnutls_url_is_supported()**.

In case the *certfile* is provided as a PKCS **11** URL, then the certificate, and its present issuers in the token are imported (i.e., forming the required trust chain).

If that function fails to load the *res* structure is at an undefined state, it must not be reused to load other keys or certificates.

Note that, this function by default returns zero on success and a negative value on error. Since 3.5.6, when the flag **GNUTLS_CERTIFICATE_API_V2** is set using **gnutls_certificate_set_flags()** it returns an index (greater or equal to zero). That index can be used to other functions to refer to the added key-pair.

RETURNS

On success this functions returns zero, and otherwise a negative value on error (see above for modifying that behavior).

SINCE

3.1.11

REPORTING BUGS

Report bugs to <bugs@gnutls.org>.

Home page: <https://www.gnutls.org>

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SEE ALSO

The full documentation for **gnutls** is maintained as a Texinfo manual. If the `/usr/local/share/doc/gnutls/` directory does not contain the HTML form visit

<https://www.gnutls.org/manual/>