

**NAME**

gnutls\_certificate\_set\_x509\_key\_file2 - API function

**SYNOPSIS**

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

```
int gnutls_certificate_set_x509_key_file2(gnutls_certificate_credentials_t res, const char * certfile,  
const char * keyfile, gnutls_x509_crt_fmt_t type, const char * pass, unsigned int flags);
```

**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

const char \* pass

is the password of the key

unsigned int flags

an ORed sequence of **gnutls\_pkcs\_encrypt\_flags\_t**

**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()**. Before GnuTLS 3.4.0 when a URL was specified, the *pass* part was ignored and a PIN callback had to be registered, this is no longer the case in current releases.

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).

## 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/>