

**NAME**

gnutls\_certificate\_get\_x509\_key - API function

**SYNOPSIS**

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

```
int gnutls_certificate_get_x509_key(gnutls_certificate_credentials_t res, unsigned index,
gnutls_x509_privkey_t * key);
```

**ARGUMENTS**

gnutls\_certificate\_credentials\_t res

is a **gnutls\_certificate\_credentials\_t** type.

unsigned index

The index of the key to obtain.

gnutls\_x509\_privkey\_t \* key

Location to store the key.

**DESCRIPTION**

Obtains a X.509 private key that has been stored in *res* with one of **gnutls\_certificate\_set\_x509\_key()**, **gnutls\_certificate\_set\_key()**, **gnutls\_certificate\_set\_x509\_key\_file()**, **gnutls\_certificate\_set\_x509\_key\_file2()**, **gnutls\_certificate\_set\_x509\_key\_mem()**, or **gnutls\_certificate\_set\_x509\_key\_mem2()**. The returned key must be deallocated with **gnutls\_x509\_privkey\_deinit()** when no longer needed.

The *index* matches the return value of **gnutls\_certificate\_set\_x509\_key()** and friends functions, when the **GNUTLS\_CERTIFICATE\_API\_V2** flag is set.

If there is no key with the given index, **GNUTLS\_E\_REQUESTED\_DATA\_NOT\_AVAILABLE** is returned. If the key with the given index is not a X.509 key, **GNUTLS\_E\_INVALID\_REQUEST** is returned.

**RETURNS**

**GNUTLS\_E\_SUCCESS** (0) on success, or a negative error code.

**SINCE**

3.4.0

**REPORTING BUGS**

Report bugs to <[bugs@gnutls.org](mailto: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/>