

NAME

DH_new, DH_free - allocate and free DH objects

SYNOPSIS

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

The following functions have been deprecated since OpenSSL 3.0, and can be hidden entirely by defining **OPENSSL_API_COMPAT** with a suitable version value, see **openssl_user_macros(7)**:

```
DH* DH_new(void);
```

```
void DH_free(DH *dh);
```

DESCRIPTION

DH_new() allocates and initializes a **DH** structure.

DH_free() frees the **DH** structure and its components. The values are erased before the memory is returned to the system. If **dh** is **NULL** nothing is done.

RETURN VALUES

If the allocation fails, **DH_new()** returns **NULL** and sets an error code that can be obtained by **ERR_get_error(3)**. Otherwise it returns a pointer to the newly allocated structure.

DH_free() returns no value.

SEE ALSO

DH_new(3), **ERR_get_error(3)**, **DH_generate_parameters(3)**, **DH_generate_key(3)**, **EVP_PKEY-DH(7)**

HISTORY

All of these functions were deprecated in OpenSSL 3.0.

For replacement see **EVP_PKEY-DH(7)**.

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