#### **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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