

NAME

RSA_new, *RSA_free* - allocate and free RSA objects

SYNOPSIS

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

RSA * RSA_new(void);

void RSA_free(RSA *rsa);
```

DESCRIPTION

RSA_new() allocates and initializes an **RSA** structure. It is equivalent to calling *RSA_new_method(NULL)*.

RSA_free() frees the **RSA** structure and its components. The key is erased before the memory is returned to the system. If **rsa** is NULL nothing is done.

RETURN VALUES

If the allocation fails, *RSA_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.

RSA_free() returns no value.

SEE ALSO

[ERR_new\(3\)](#), [RSA_generate_key\(3\)](#), [RSA_new_method\(3\)](#)

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