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### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'RSA\_new.3ossl'***

***\$ man RSA\_new.3ossl***

RSA\_NEW(3ossl)                      OpenSSL                      RSA\_NEW(3ossl)

#### NAME

RSA\_new, RSA\_free - allocate and free RSA objects

#### SYNOPSIS

```
#include <openssl/rsa.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):

```
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_get_error(3)`, `RSA_generate_key(3)`, `RSA_new_method(3)`

## HISTORY

All functions described here were deprecated in OpenSSL 3.0. For replacement see `EVP_PKEY-RSA(7)`.

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