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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'openssl-rand.1oss1' command

\$ man openssl-rand.1oss1

OPENSSL-RAND(1oss1) OpenSSL OPENSSL-RAND(1oss1)

NAME

openssl-rand - generate pseudo-random bytes

SYNOPSIS

openssl rand [-help] [-out file] [-base64] [-hex] [-engine id] [-rand files] [-writerand file] [-provider name] [-provider-path path] [-propquery propq] num

DESCRIPTION

This command generates num random bytes using a cryptographically secure pseudo random number generator (CSPRNG).

The random bytes are generated using the RAND_bytes(3) function, which provides a security level of 256 bits, provided it managed to seed itself successfully from a trusted operating system entropy source.

Otherwise, the command will fail with a nonzero error code. For more details, see RAND_bytes(3), RAND(7), and EVP_RAND(7).

OPTIONS

-help

Print out a usage message.

-out file

Write to file instead of standard output.

-base64

Perform base64 encoding on the output.

-hex

Show the output as a hex string.

-engine id

See "Engine Options" in openssl(1). This option is deprecated.

-rand files, -writerand file

See "Random State Options" in openssl(1) for details.

-provider name

-provider-path path

-propquery propq

See "Provider Options" in openssl(1), provider(7), and property(7).

SEE ALSO

openssl(1), RAND_bytes(3), RAND(7), EVP RAND(7)

HISTORY

The -engine option was deprecated in OpenSSL 3.0.

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