



Rocky Enterprise Linux 9.2 Manual Pages on command 'spkac.1ssl'

C:\>man spkac.1ssl

SPKAC(1SSL) OpenSSL SPKAC(1SSL)

NAME

openssl-spkac, spkac - SPKAC printing and generating utility

SYNOPSIS

openssl spkac [-help] [-in filename] [-out filename] [-key keyfile] [-keyform
PEM|DER|ENGINE] [-passin arg] [-challenge string] [-pubkey] [-spkac spkacname]
[-spksect section] [-noout] [-verify] [-engine id]

DESCRIPTION

The spkac command processes Netscape signed public key and challenge (SPKAC) files. It can print out their contents, verify the signature and produce its own SPKACs from a supplied private key.

OPTIONS

-help

Print out a usage message.

-in filename

This specifies the input filename to read from or standard input if this option is not specified. Ignored if the -key option is used.

-out filename

Specifies the output filename to write to or standard output by default.

-key keyfile

Create an SPKAC file using the private key in keyfile. The -in, -noout,

-spksect and -verify options are ignored if present.

-keyform PEM|DER|ENGINE

Whether the key format is PEM, DER, or an engine-backed key. The default is PEM.

-passin password

The input file password source. For more information about the format of arg see the PASS PHRASE ARGUMENTS section in openssl(1).

-challenge string

Specifies the challenge string if an SPKAC is being created.

-spkac spkacname

Allows an alternative name form the variable containing the SPKAC. The default is "SPKAC". This option affects both generated and input SPKAC files.

-spksect section

Allows an alternative name form the section containing the SPKAC. The default is the default section.

-noout

Don't output the text version of the SPKAC (not used if an SPKAC is being created).

-pubkey

Output the public key of an SPKAC (not used if an SPKAC is being created).

-verify

Verifies the digital signature on the supplied SPKAC.

-engine id

Specifying an engine (by its unique id string) will cause spkac to attempt to obtain a functional reference to the specified engine, thus initialising it if needed. The engine will then be set as the default for all available algorithms.

EXAMPLES

Print out the contents of an SPKAC:

```
openssl spkac -in spkac.cnf
```

Verify the signature of an SPKAC:

```
openssl spkac -in spkac.cnf -noout -verify
```

Create an SPKAC using the challenge string "hello":

```
openssl spkac -key key.pem -challenge hello -out spkac.cnf
```

Example of an SPKAC, (long lines split up for clarity):

```
SPKAC=MIG5MGUwXDANBqkqhkIG9w0BAQEFAANLADBIAKEA\  
1cCoq2Wa3lxs47ul7FPVwHVIPDx5yso105Y6zpozam135a\  
8R0CpoRvkkiglyXfcCjiVi5oWk+6FfPaD03uPFoQIDAQAB\  
FgVoZWxsbzANBqkqhkIG9w0BAQQFAANBAFpQtY/FojdwkJ\  
h1bEIYuc2EeM2KHTWPEepWYeawvHD0gQ3DngSC75YCWnnD\  
dq+NQ3F+X4deMx9AaEglZtULwV4=
```

NOTES

A created SPKAC with suitable DN components appended can be fed into the `ca` utility.

SPKACs are typically generated by Netscape when a form is submitted containing the `KEYGEN` tag as part of the certificate enrollment process.

The challenge string permits a primitive form of proof of possession of private key. By checking the SPKAC signature and a random challenge string some guarantee is given that the user knows the private key corresponding to the public key being certified. This is important in some applications. Without this it is possible for a previous SPKAC to be used in a "replay attack".

SEE ALSO

`ca(1)`

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2023-02-06

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