SEC(3pm) User Contributed Perl Documentation

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NAME

Net::DNS::SEC - DNSSEC extensions to Net::DNS

SYNOPSIS

```
use Net::DNS;
```

The Net::DNS::SEC module implements a few class methods used by the other modules in this suite and a few functions that can be exported.

DESCRIPTION

The Net::DSN::SEC suite provides the resource records that are needed for DNSSEC (RFC 4033, 4034 and 4035). In addition the DLV RR, a clone of the DS RR is supported (RFC 4431)

It also provides support for SIG0. That later is useful for dynamic updates using key-pairs.

RSA and DSA crypto routines are supported.

For details see Net::DNS::RR::RRSIG, Net::DNS::RR::DNSKEY, Net::DNS::RR::NSEC, Net::DNS::RR::DNS::RR::DLV, and see Net::DNS::RR::SIG and Net::DNS::RR::KEY for the use with SIG0.

Net::DNS contains all needed hooks to load the Net::DNS::SEC extensions when they are available.

See Net::DNS for general help.

Utility function

Use the following construct if you want to use thos function in your code.

```
use Net::DNS::SEC qw( key_difference );
```

key_difference

```
$result=key_differnece(\@a,\@b,\@result);
```

Fills @result with all keys in the array "@a" that are not in the array "@b".

Returns 0 on success or an error message on failure.

Class methods

These functions are inherited by relevant Net::DNS::RR classes. They are not exported.

algorithm

```
$value=Net::DNS::SEC->algorithm("RSASHA1");
$value=$self->algorithm("RSASHA1");
$value=$self->algorithm(5);

$algorithm=$self->algorithm();
$memonic=$self->algorithm("mnemonic");
```

The algorithm method is used to set or read the value of the algorithm field in Net::DNS::RR::DNSKEY and Net::DNS::RR::RRSIG.

If supplied with an argument it will set the algorithm accordingly, except when the argument equals the string "mnemonic" the method will return the mnemonic of the algorithm.

Can also be called as a class method to do Mnemonic to Value conversion.

digtype

```
$value=$self->digtype("SHA1");
$value=$self->digtype(1);

$algorithm=$self->digtype();
$memonic=$self->digtype("mnemonic");
```

The algorithm method is used to set or read the value of the digest or hash algorithm field in Net::DNS::RR::DS and Net::DNS::RR::NSEC3 objects.

If supplied with an argument it will set the digetstype/hash algorithm accordingly, except when the argument equals the string "mnemonic" the method will return the mnemonic of the digetstype/hash algorithm.

Can also be called as a class method to do Mnemonic to Value conversion, note however that it will then use the "Delegation Signer (DS) Resource Record (RR) Type Digest Algorithms" and not the



perl v5.12.4 2010-03-12 1

SEC(3pm)

User Contributed Perl Documentation

SEC(3pm)

"DNSSEC NSEC3 Hash Algorithms" IANA registry. If you want to specifically get access to the NSEC3 digest types then use a construct like:

```
bless $self, Net::DNS::RR::NSEC3;
$self->digtype("SHA1");
```

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SEE ALSO

http://www.net-dns.org/ <http://www.net-dns.org/>

perl (1), Net::DNS, Net::DNS::RR::KEY, Net::DNS::RR::SIG, Net::DNS::RR::DNSKEY, Net::DNS::RR::RRSIG, Net::DNS::RR::DNS::

RFC4033, 4034 and 4035.



perl v5.12.4 2010-03-12 2