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## **Red Hat Enterprise Linux Release 9.2 Manual Pages on 'EVP\_PKEY\_get\_default\_digest\_nid(3oss)' command**

***\$ man EVP\_PKEY\_get\_default\_digest\_nid.3oss!***

EVP\_PKEY\_GET\_DEFAULT\_DIGEST\_NID(3oss)OpenEVP\_PKEY\_GET\_DEFAULT\_DIGEST\_NID(3oss)

### NAME

EVP\_PKEY\_get\_default\_digest\_nid, EVP\_PKEY\_get\_default\_digest\_name - get default signature digest

### SYNOPSIS

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

int EVP_PKEY_get_default_digest_name(EVP_PKEY *pkey,
                                     char *mdname, size_t mdname_sz);

int EVP_PKEY_get_default_digest_nid(EVP_PKEY *pkey, int *pnid);
```

### DESCRIPTION

EVP\_PKEY\_get\_default\_digest\_name() fills in the default message digest name for the public key signature operations associated with key pkey into mdname, up to at most mdname\_sz bytes including the ending NUL byte. The name could be "UNDEF", signifying that no digest should be used.

EVP\_PKEY\_get\_default\_digest\_nid() sets pnid to the default message digest NID for the public key signature operations associated with key pkey. Note that some signature algorithms (i.e. Ed25519 and Ed448) do not use a digest during signing. In this case pnid will be set to NID\_undef. This function is only reliable for legacy keys, which are keys with a EVP\_PKEY\_ASN1\_METHOD; these keys have typically been loaded from engines, or created with EVP\_PKEY\_assign\_RSA(3) or similar.

### NOTES

For all current standard OpenSSL public key algorithms SHA256 is returned.

## RETURN VALUES

EVP\_PKEY\_get\_default\_digest\_name() and EVP\_PKEY\_get\_default\_digest\_nid() both return 1 if the message digest is advisory (that is other digests can be used) and 2 if it is mandatory (other digests can not be used). They return 0 or a negative value for failure. In particular a return value of -2 indicates the operation is not supported by the public key algorithm.

## SEE ALSO

EVP\_PKEY\_CTX\_new(3), EVP\_PKEY\_sign(3),  
EVP\_PKEY\_digestsign\_supports\_digest(3), EVP\_PKEY\_verify(3),  
EVP\_PKEY\_verify\_recover(3),

## HISTORY

This function was added in OpenSSL 1.0.0.

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