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NAME

ksi sign - Guardtime command-line tool for creating KSI Signatures.

SYNOPSIS

ksi sign -i input [-o out.ksig] -S url [--aggr-user user --aggr-key key] [-H alg] [--data-out file] [--dump] [more options]

DESCRIPTION

This is a general signing tool for Guardtime Keyless Signature services. As the signature created contains a calendar authentication record as trust anchor it can be verified by key-based and calendar-based verification only (see **ksi-verify**(1)). **The signature should be extended as soon as the first publication becomes available**. After the signature is extended (see **ksi-extend**(1)) it is linked with a publication and can be verified by publication-based verification that relies only on the hash functions.

OPTIONS

- -i data Files path to file to be hashed or data hash imprint to extract the hash value that is going to be signed. Use '-' as file name to read data to be hashed from stdin. Hash imprint format: <alg>:<hash in hex>. Call ksi -h to get the list of supported hash algorithms.
- **-o** *file* Output file name to store signature token. Use '-' as file name to redirect signature binary stream to *stdout*. If not specified signature is saved to the path described as <input files path>(nr).ksig, where (nr) is generated serial number if file name already exists. If specified will always overwrite the existing file.
- **-H** alg Use a specific hash algorithm to hash the file to be signed. Call **ksi -h** to get the list of supported hash algorithms.
- **-S** *url* Specify signing service URL.

--aggr-user str

User name for signing service.

--aggr-key str

HMAC Key for signing service.

--data-out file

Save signed data to file. Use when signing a stream. Use '-' as file name to redirect data being hashed to stdout.

-d Print detailed information about processes and errors to *stderr*.

--dump

Dump signature created to stdout.

--conf file

Specify a configurations file to override default service information. It must be noted that service info from command-line will override the configurations file. See $\mathbf{ksi}(1)$ and $\mathbf{ksi\text{-}conf}(5)$ for more information.

--log file

Write libksi log into file. Use '-' as file name to redirect log to stdout.

EXIT STATUS

See **ksi**(1) for more information.

EXAMPLES

In the following examples it is assumed that default service urls are defined (see **ksi**(1) for more information).

1 To sign a file *file* and save signature to *sig.ksig* call:

ksi sign -i file -o sig.ksig

2 To sign a data hash (hashed with SHA256) and save the resulting signature to file sig.ksig call:

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ksi sign -i SHA-256:c8ef6d57ac28d1b4e95a513959f5fcdd0688380a43d601a5ace1d2e96884690a -o sig.ksig

3 To sign a data file *file* with non-default algorithm *SHA1* call:

ksi sign -i file -H SHA1 -o sig.ksig

4 To sign a stream (stdin), save data from stream to *file* and save signature to *sig.ksig* call:

ksi -s -i - --data-out file -o sig.ksig

ENVIRONMENT

Environment variable **KSI_CONF** can be defined to set default KSI configurations file. See **ksi**(1) and **ksi-conf**(5) for more information.

AUTHOR

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SEE ALSO

ksi(1), ksi-verify(1), ksi-extend(1), ksi-pubfile(1), ksi-conf(5)