NAME

ksi - KSI command-line tool, also called KSI tool.

SYNOPSIS

ksi [**-h**][**--version**]
ksi command -h
ksi command [*service_parameters*][*options*]

DESCRIPTION

KSI is an industrial scale blockchain platform that cryptographically ensures data integrity and proves time of existence. Its keyless signatures, based on hash chains, link data to global calendar blockchain.

KSI command-line tool enables the access to the KSI blockchain and its functions from the shell. It can be used for signing data in files or other sources, extending existing KSI signatures and verifying them using different trust anchors. The first argument of the tool is the KSI command followed by the KSI service configuration parameters and options.

See **ksi-conf**(5) or man page of specific KSI command for more information about KSI service configuration.

KSI COMMANDS

sign   Signs the given input with KSI. See **ksi-sign**(1) for more information.

verify   Verifies existing KSI signature. See **ksi-verify**(1) for more information.

extend   Extends existing KSI signature to the given publication. See **ksi-extend**(1) for more information.

pubfile   Downloads and verifies KSI publications file. See **ksi-pubfile**(1) for more information.

OPTIONS

-h   Print help text. Use **ksi command -h** to print help for the specific command.

--version
          Print version info.

EXIT STATUS

0   **Exit success.** Returned if everything is OK.

1   **Exit failure.** A general failure occurred.

3   **Invalid command-line parameter.** The content or format of a command-line parameter is invalid or a parameter is missing.

4   **Invalid format.** Input data to KSI library is invalid, for example signature or publication file format is invalid.

5   **Network error.** KSI tool is unable to connect to the service, connection is timed out or an HTTP error was returned from the KSI service.

6   **Verification error.** Verification of signature or document hash failed.

7   **Extending error.** Error in extending a signature or an error was returned by KSI Extender.

8   **Aggregation error.** Error returned by KSI Aggregator.

9   **Input / output error.** Unable to read or write file.

10   **Cryptographic error.** Error may be generated due to mistrusted or unavailable hash algorithm or by an invalid PKI signature / mistrusted certificate.

11   **HMAC error.** HMAC of aggregation or extend response does not match.

12   **No privileges.** Operating system did not grant privileges to perform an operation.

13   **System out of memory.**

14   **Authentication error.** KSI Aggregation or Extending service did not accept the provided access credentials.

16   **Invalid configuration.** KSI tool configuration or KSI C API library configuration is invalid.

ENVIRONMENT

The **KSI_CONF** environment variable points to the KSI configuration file containing the KSI service related parameters such as the URLs to the KSI Aggregator and Extender service and the corresponding access credentials. See **ksi-conf**(5) for more information.

AUTHOR

Guardtime AS, http://www.guardtime.com/

SEE ALSO

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