

**NAME**

cryptsetup-token – manage LUKS2 tokens

**SYNOPSIS**

**cryptsetup** *token* <add|remove|import|export|unassign> [<options>] <device>

**DESCRIPTION**

Action *add* creates a new keyring token to enable auto-activation of the device. For the auto-activation, the passphrase must be stored in the keyring with the specified description. Usually, the passphrase should be stored in the *user* or *user-session* keyring. The *token* command is supported only for LUKS2.

For adding a new keyring token, the option `--key-description` is mandatory. Also, a new token is assigned to the keyslot specified with `--key-slot` option or to all active keyslots if the `--key-slot` option is omitted.

To remove an existing token, specify the token ID that should be removed with `--token-id` option.

**WARNING:** The action *token remove* removes any token type, not just *keyring* type from token slot specified by `--token-id` option.

Action *import* can store an arbitrary valid JSON data in the LUKS2 token. It may be passed via standard input or a file passed in `--json-file` option. If you specify `--key-slot`, a successfully imported token is also assigned to the keyslot.

Action *export* writes requested token JSON to a file passed with `--json-file` or to standard output.

Action *unassign* removes token binding to specified keyslot. Both token and keyslot must be specified by `--token-id` and `--key-slot` parameters.

If `--token-id` is used with action *add* or action *import* and a token with that ID already exists, option `--token-replace` can replace the existing token.

<options> can be [`--header`, `--token-id`, `--key-slot`, `--key-description`, `--disable-external-tokens`, `--disable-locks`, `--disable-keyring`, `--json-file`, `--token-replace`, `--unbound`, `--external-tokens-path`].

**OPTIONS****--batch-mode, -q**

Suppresses all confirmation questions. Use with care!

If the `--verify-passphrase` option is not specified, this option also switches off the passphrase verification.

**--debug or --debug-json**

Run in debug mode with full diagnostic logs. Debug output lines are always prefixed by #.

If `--debug-json` is used, additional LUKS2 JSON data structures are printed.

**--disable-external-tokens**

Disable loading of plugins for external LUKS2 tokens.

**--disable-keyring**

Do not load the volume key in the kernel keyring; store it directly in the dm-crypt target instead. This option is supported only for the LUKS2 type.

**--disable-locks**

Disable lock protection for metadata on disk. This option is valid only for LUKS2 and is ignored for other formats.

**WARNING:** Do not use this option unless you run cryptsetup in a restricted environment where locking is impossible to perform (where /run directory cannot be used).

**--external-tokens-path** *<absolute path>*

Override the system directory path where cryptsetup searches for external token handlers (or token plugins). It must be an absolute path (starting with '/' character).

**--header** *<device or file storing the LUKS header>*

Use a detached (separated) metadata device or file where the LUKS header is stored. This option allows one to store the ciphertext and LUKS header on different devices.

For commands that change the LUKS header (e.g., *luksAddKey*), specify the device or file with the LUKS header directly as the LUKS device.

**--help, -?**

Show help text and default parameters.

**--json-file**

Read the token JSON from a file or write the token to it. Option **--json-file=-** reads JSON from standard input or writes it to standard output, respectively.

**--key-description** *text*

Set the key description in the keyring that will be used for passphrase retrieval.

**--key-slot, -S** *<0-N>*

For LUKS operations that add key material, this option allows you to specify which keyslot is selected for the new key.

The maximum number of keyslots depends on the LUKS version. LUKS1 can have up to 8 keyslots. LUKS2 can have up to 32 keyslots based on keyslot area size and key size, but a valid keyslot ID can always be between 0 and 31 for LUKS2.

**--token-id**

Specify the token number. If omitted, the first unused token id is used when adding or importing a new token.

**--token-replace**

Replace an existing token when adding or importing a token with the **--token-id** option.

**--unbound**

Creates a new LUKS2 keyring token assigned to no keyslot. Usable only with the *add* action.

**--usage**

Show short option help.

**--version, -V**

Show the program version.

## REPORTING BUGS

Report bugs at cryptsetup mailing list [<cryptsetup@lists.linux.dev>](mailto:cryptsetup@lists.linux.dev) or in Issues project section [<https://gitlab.com/cryptsetup/cryptsetup/-/issues/new>](https://gitlab.com/cryptsetup/cryptsetup/-/issues/new).

Please attach the output of the failed command with **--debug** option added.

**SEE ALSO**

Cryptsetup FAQ <<https://gitlab.com/cryptsetup/cryptsetup/wikis/FrequentlyAskedQuestions>>

**cryptsetup(8)**, **integritysetup(8)** and **veritysetup(8)**

**CRYPTSETUP**

Part of cryptsetup project <<https://gitlab.com/cryptsetup/cryptsetup/>>.