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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'appstreamcli.1' command

\$ man appstreamcli.1

APPSTREAMCLI(1) appstreamcli APPSTREAMCLI(1)

NAME

appstreamcli - Handle AppStream metadata formats and query AppStream data

SYNOPSIS

appstreamcli [COMMAND]

DESCRIPTION

This manual page documents briefly the appstreamcli command.

appstreamcli is a small helper tool to work with AppStream metadata and access the AppStream component index from the command-line. The AppStream component index contains a list of all available software components for your distribution, matched to their package names. It is generated using AppStream XML or Debian DEP-11 data, which is provided by your distributor.

For more information about the AppStream project and the other components which are part of it, take a look at the AppStream pages at Freedesktop.org[1].

OPTIONS

get ID

Get a component from the metadata pool by its identifier.

s, search TERM

Search the AppStream component pool for a given search term.

what-provides TYPE TERM

Return components which provide a given item. An item type can be specified using the TYPE parameter, a value to search for has to be supplied using the TERM parameter.

Examples:

Get components which handle the "text/xml" mediatype.

```
appstreamcli what-provides mediatype "text/xml"
```

Get component which provides the "libfoo.so.2" library.

```
appstreamcli what-provides lib libfoo.so.2
```

refresh, refresh-cache

Trigger a database refresh, if necessary. In case you want to force the database to be rebuilt, supply the --force flag.

This command must be executed with root permission.

status

Display various information about the installed metadata and the metadata cache.

os-info

Show information about the current operating system from the metadata index. This requires the operating system to provide a operating-system component for itself.

dump ID

Dump the complete XML descriptions of components with the given ID that were found in the metadata pool.

validate FILES

Validate AppStream XML metadata for compliance with the specification.

Both XML metadata types, upstream and distro XML, are handled. The format type which should be validated is determined automatically.

The --pedantic flag triggers a more pedantic validation of the file, including minor and style issues in the report.

validate-tree DIRECTORY

Validate AppStream XML metadata found in a file-tree.

This performs a standard validation of all found metadata, but also checks for additional errors, like the presence of .desktop files

and validity of other additional metadata.

check-license LICENSE

Test a license string or license expression for validity and display details about it.

This will check whether the license string is considered to be valid for AppStream, and return a non-zero exit code if it is not.

The command will also display useful information like the canonical ID of a license, whether it is suitable as license for AppStream metadata, and whether the license is considered to be for Free and Open Source software or proprietary software.

AppStream will consider any license as Free and Open Source that is marked as suitable by either the Free Software Foundation (FSF), Open Source Initiative (OSI) or explicit license list of the Debian Free Software Guidelines (DFSG).

install ID

Install a software component by its ID using the package manager or Flatpak.

This resolves the AppStream component ID to an installation candidate and then calls either the native package manager or Flatpak (if available) to install the component.

remove ID

Uninstall a software component by its ID using the package manager or Flatpak.

This will uninstall software matching the selected ID using either the native package manager or Flatpak (if available).

put FILE

Install a metadata file into the right directory on the current machine.

compare-versions, vercmp VER1 [CMP] VER2

Compare two version numbers. If two version numbers are given as parameters, the versions will be compared and the comparison result will be printed to stdout.

If a version number, a comparison operator and another version

number are passed in as parameter, the result of the comparison operation will be printed to stdout, and appstreamcli will exit with a non-zero exit status in case the comparison failed. The comparison operator can be one of the following:

- ? eq - Equal to
- ? ne - Not equal to
- ? lt - Less than
- ? gt - Greater than
- ? le - Less than or equal to
- ? ge - Greater than or equal to

new-template TYPE FILE

Create a metainfo file template to be used by software projects.

The `--from-desktop` option can be used to use a `.desktop` file as template for generating the example file.

The generated files contain example entries which need to be filled in with the actual desired values by the project author.

The first TYPE parameter is the name of an AppStream component type. For a complete list check out the documentation[2] or the help output of appstreamcli for this subcommand.

make-desktop-file MI_FILE DESKTOP_FILE

Create a XDG desktop-entry file from a metainfo file. If the desktop-entry file specified in DESKTOP_FILE already exists, it will get extended with the new information extracted from the metainfo file. Otherwise a new file will be created.

This command will use the first binary mentioned in a `provides` tag of the component for the `Exec=` field of the new desktop-entry file.

If this is not the desired behavior, the `--exec` flag can be used to explicitly define a binary to launch. Other methods of launching the application are currently not supported.

In order to generate a proper desktop-entry, this command assumes that not only the minimally required tags for an AppStream component are set, but also that it has an `<icon/>` tag of type "stock" to describe the stock icon that should be used as well as a

<categories/> tag containing the categories the application should be placed in.

news-to-metainfo NEWS_FILE MI_FILE [OUT_FILE]

This command converts a NEWS file as used by many open source projects into the XML used by AppStream. Since NEWS files are free text, a lot of heuristics will be applied to get reasonable results. The converter can also read a YAML version of the AppStream release description and convert it to XML as well. If the metainfo file MI_FILE already exists, it will be augmented with the new release entries, otherwise the release entries will be written without any wrapping component. If [OUT_FILE] is specified, instead of acting on MI_FILE the changed data will be written to the particular file. If any of the output filenames is set to "-", the output will instead be written to stdout.

The --format option can be used to enforce reading the input file in a specific format ("text" or "yaml") in case the format autodetection fails. The --limit option is used to limit the amount of release entries written (the newest entries will always be first).

metainfo-to-news MI_FILE NEWS_FILE

This command reverses the news-to-metainfo command and writes a NEWS file as text or YAML using the XML contained in a metainfo file. If NEWS_FILE is set to "-", the resulting data will be written to stdout instead of to a file.

The --format option can be used to explicitly specify the output format ("yaml" or "text"). If it is not set, appstreamcli will guess which format is most suitable.

convert FILE1 FILE1

Converts AppStream XML metadata into its YAML representation and vice versa.

compose

Composes an AppStream metadata catalog from a directory tree with metainfo files. This command is only available if the

org.freedesktop.appstream.compose component is installed. See `appstreamcli-compose(1)` for more information.

`--details`

Print out more information about a found component.

`--no-color`

Don't print colored output.

`--no-net`

Do not access the network when validating metadata.

The same effect can be achieved by setting the `AS_VALIDATE_NONET` environment variable before running `appstreamcli`.

`--version`

Display the version number of `appstreamcli`

SEE ALSO

`pkcon(1)`.

AUTHOR

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NOTES

1. Freedesktop.org

<https://www.freedesktop.org/wiki/Distributions/AppStream/>

2. the documentation

<https://www.freedesktop.org/software/appstream/docs/chap-Metadata.html>

AppStream

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