skopeo Move container images

CONCEPTS

Skopeo needs no daemon and no root: it talks to registries and storage directly, without pulling images first.

Source docker:// dir: oci:
↓ `skopeo copy`
skopeo no daemon, no root
↓ writes
Destination docker:// dir: oci-archive:

copy moves manifest, layers and signatures between any two transports

Transports (image name prefixes)

Prefix	Points at
`docker://<ref>`	Registry (Docker Registry API v2)
`dir:<path>`	Directory of manifest and layer files
`oci:<path>:<tag>`	OCI image layout directory
`oci-archive:<path>:<tag>`	Tar of an OCI layout
`docker-archive:<path>`	Tar made by docker save
`docker-daemon:<ref>`	Local Docker daemon (needs tag)
`containers-storage:<ref>`	Podman/ Buildah local storage

Global options such as --override-arch go before the subcommand; subcommand options go after it.

INSPECT & LIST

skopeo inspect docker://*<image>*
Show manifest summary without pulling

skopeo list-tags docker://*<repo>*
List tags in a repository

INSPECT & LIST (cont.)

skopeo inspect --config docker://*<image>*
Show the image config (env, cmd, arch)

skopeo inspect --raw docker://*<image>*
Print the raw manifest

skopeo inspect --no-tags docker://*<image>*
Leave out the long tag list

COPY

skopeo copy *<src> <dst>*
Copy an image between transports

skopeo copy docker://*<image>* **dir:***<path>*
Download layers to a directory

skopeo copy --all *<src> <dst>*
Copy every platform plus the list

skopeo copy --format *<oci|v2s1|v2s2> <src> <dst>*
Convert manifest type

skopeo copy --digestfile *<file> <src> <dst>*
Write resulting digest to a file

skopeo copy --retry-times *<n>* **--retry-delay** *<t> <src> <dst>*
Retry flaky transfers

SYNC & DELETE

skopeo sync --src docker --dest docker *<src> <dst>*
Mirror all tags of a repo

skopeo sync --src docker --dest dir *<repo> <dir>*
Registry to local directory

skopeo sync --src dir --dest docker *<dir> <registry>*
Local directory to registry

skopeo sync --src yaml --dest docker *<file.yml> <dst>*
Sync what a YAML file lists

skopeo sync --all --src docker --dest docker *<src> <dst>*
Include every platform

SYNC & DELETE (cont.)

skopeo sync --dry-run --src docker --dest docker *<src> <dst>*
Preview without copying

skopeo delete docker://*<image>*
Mark an image for deletion

AUTH & TLS

skopeo login *<registry>*
Log in and store credentials

skopeo logout *<registry>*
Remove stored credentials

skopeo login -u *<user>* **--password-stdin** *<registry>*
Log in with password from stdin

skopeo inspect --creds *<user>:<pass>* **docker://***<image>*
One-off credentials

skopeo inspect --authfile *<file>* **docker://***<image>*
Use a specific auth file

skopeo copy --src-creds *<u:p>* **--dest-creds** *<u:p> <src> <dst>*
Separate credentials per side

skopeo copy --dest-tls-verify=false *<src> <dst>*
Allow plain HTTP or bad certs

PLATFORM & POLICY

skopeo --override-arch *<arch>* **inspect docker://***<image>*
Look at another architecture

skopeo --debug copy *<src> <dst>*
Verbose debug output

RECIPES

Mirror one tag between registries

```
skopeo login registry-
a.example.com
skopeo login registry-
b.example.com
skopeo copy --all \
  docker://registry-a.example.com/
app:1.0 \
  docker://registry-b.example.com/
app:1.0
```