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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'buildah-commit.1' command

\$ man buildah-commit.1

buildah-commit(1) General Commands Manual buildah-commit(1)

NAME

buildah-commit - Create an image from a working container.

SYNOPSIS

buildah commit [options] container [image]

DESCRIPTION

Writes a new image using the specified container's read-write layer and if it is based on an image, the layers of that image. If `image` does not begin with a registry name component, localhost will be added to the name. If `image` is not provided, the image will have no name. When an image has no name, the buildah images command will display `<none>` in the REPOSITORY and TAG columns.

RETURN VALUE

The image ID of the image that was created. On error, 1 is returned and `errno` is returned.

OPTIONS

`--authfile path`

Path of the authentication file. Default is `${XDG_RUNTIME_DIR}/containers/auth.json`. If `XDG_RUNTIME_DIR` is not set, the default is `/run/containers/$UID/auth.json`. This file is created using buildah login.

If the authorization state is not found there, `$HOME/.docker/containers/auth.json` is checked, which is set using docker login.

Note: You can also override the default path of the authentication file by setting the `REGISTRY_AUTH_FILE` environment variable. `export REGISTRY_AUTH_FILE=path`

`--cert-dir path`

Use certificates at path (*.crt, *.cert, *.key) to connect to the registry.

The default certificates directory is `/etc/containers/certs.d`.

`--creds creds`

The `[username:password]` to use to authenticate with the registry if required. If one or both values are not supplied, a command line prompt will appear and the value can be entered. The password is entered without echo.

`--disable-compression, -D`

Don't compress filesystem layers when building the image unless it is required by the location where the image is being written. This is the default setting, because image layers are compressed automatically when they are pushed to registries, and images being written to local storage would only need to be decompressed again to be stored. Compression can be forced in all cases by specifying `--disable-compression=false`.

`--encrypt-layer layer(s)`

Layer(s) to encrypt: 0-indexed layer indices with support for negative indexing (e.g. 0 is the first layer, -1 is the last layer). If not defined, will encrypt all layers if encryption-key flag is specified.

`--encryption-key key`

The `[protocol:keyfile]` specifies the encryption protocol, which can be JWE (RFC7516), PGP (RFC4880), and PKCS7 (RFC2315) and the key material required for image encryption. For instance, `jwe:/path/to/key.pem` or `pgp:admin@example.com` or `pkcs7:/path/to/x509-file`.

`--format, -f [oci | docker]`

Control the format for the image manifest and configuration data. Recognized formats include oci (OCI image-spec v1.0, the default) and docker (version 2, using schema format 2 for the manifest).

Note: You can also override the default format by setting the `BUILDDAH_FORMAT` environment variable. `export BUILDDAH_FORMAT=docker`

`--identity-label` bool-value

Adds default identity label `io.buildah.version` if set. (default true).

`--iidfile` ImageIDfile

Write the image ID to the file.

`--manifest` "listName"

Name of the manifest list to which the built image will be added. Creates the manifest list if it does not exist. This option is useful for building multi architecture images.

`--omit-history` bool-value

Omit build history information in the built image. (default false).

This option is useful for the cases where end users explicitly want to set `--omit-history` to omit the optional History from built images or when working with images built using build tools that do not include History information in their images.

`--quiet, -q`

When writing the output image, suppress progress output.

`--rm` Remove the working container and its contents after creating the image. Default leaves the container and its content in place.

`--sign-by` fingerprint

Sign the new image using the GPG key that matches the specified fingerprint.

`--squash`

Squash all of the new image's layers (including those inherited from a base image) into a single new layer.

`--timestamp` seconds

Set the create timestamp to seconds since epoch to allow for deterministic builds (defaults to current time). By default, the created timestamp is changed and written into the image manifest with every commit, causing the image's sha256 hash to be different even if the sources are exactly the same otherwise. When `--timestamp` is set, the created timestamp is always set to the time specified and therefore not changed, allowing the image's sha256 to remain the same. All files committed to the layers of the image will be created with the timestamp.

`--tls-verify bool-value`

Require HTTPS and verification of certificates when talking to container registries (defaults to true). TLS verification cannot be used when talking to an insecure registry.

`--unsetenv env`

Unset environment variables from the final image.

EXAMPLE

This example saves an image based on the container.

```
buildah commit containerID newImageName
```

This example saves an image named `newImageName` based on the container.

```
buildah commit --rm containerID newImageName
```

This example saves an image with no name, removes the working container, and creates a new container using the image's ID.

```
buildah from $(buildah commit --rm containerID)
```

This example saves an image based on the container disabling compression.

```
buildah commit --disable-compression containerID
```

This example saves an image named `newImageName` based on the container disabling compression.

```
buildah commit --disable-compression containerID newImageName
```

This example commits the container to the image on the local registry while turning off TLS verification.

```
buildah commit --tls-verify=false containerID docker://local?
```

```
host:5000/imageld
```

This example commits the container to the image on the local registry using credentials and certificates for authentication.

```
buildah commit --cert-dir ~/auth --tls-verify=true --creds=username:password containerID docker://localhost:5000/imageld
```

This example commits the container to the image on the local registry using credentials from the `/tmp/auths/myauths.json` file and certificates for authentication.

```
buildah commit --authfile /tmp/auths/myauths.json --cert-dir ~/auth --tls-verify=true --creds=username:password containerID docker://local?
```

host:5000/imageName

This example saves an image based on the container, but stores dates based on epoch time. buildah commit --timestamp=0 containerID newImageName

Building an multi-architecture image using the --manifest option (requires emulation software)

```
#!/bin/sh
build() {
    ctr=$(./bin/buildah from --arch $1 ubi8)
    ./bin/buildah run $ctr dnf install -y iputils
    ./bin/buildah commit --manifest ubi8ping $ctr
}
build arm
build amd64
build s390x
```

ENVIRONMENT

BUILD_REGISTRY_SOURCES

BUILD_REGISTRY_SOURCES, if set, is treated as a JSON object which contains lists of registry names under the keys insecureRegistries, blockedRegistries, and allowedRegistries.

When committing an image, if the image is to be given a name, the portion of the name that corresponds to a registry is compared to the items in the blockedRegistries list, and if it matches any of them, the commit attempt is denied. If there are registries in the allowedRegistries list, and the portion of the name that corresponds to the registry is not in the list, the commit attempt is denied.

TMPDIR The TMPDIR environment variable allows the user to specify where temporary files are stored while pulling and pushing images. Defaults to '/var/tmp'.

FILES

registries.conf (/etc/containers/registries.conf)

registries.conf is the configuration file which specifies which container registries should be consulted when completing image names which

do not include a registry or domain portion.

policy.json (/etc/containers/policy.json)

Signature policy file. This defines the trust policy for container im?

ages. Controls which container registries can be used for image, and

whether or not the tool should trust the images.

SEE ALSO

[buildah\(1\)](#), [buildah-images\(1\)](#), [containers-policy.json\(5\)](#), [containers-](#)

[registries.conf\(5\)](#)

[buildah](#)

March 2017

[buildah-commit\(1\)](#)