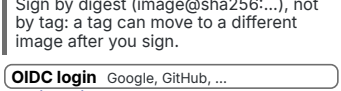
Cosign

Sign and verify artifacts

CONCEPTS

Sign by digest (image@sha256:...), not by tag: a tag can move to a different image after you sign.



Keyless signing

Keyless verify needs both an expected identity and an expected OIDC issuer; without them anyone with any Sigstore identity would pass.

Signatures and attestations are stored as extra artifacts next to the image in the same registry, so signing needs push access.

KEYS

`cosign generate-key-pair`
Create cosign.key and cosign.pub

`--key awskms:// / gcpkms:// / azurekms:// / hashivault://`
Key in a KMS (URI schemes)

SIGN

`cosign sign --key cosign.key <image>@<digest>`
Sign with a local key

`cosign sign <image>@<digest>`
Keyless sign (OIDC login)

`cosign sign --yes <image>@<digest>`
Skip confirmation prompts (CI)

VERIFY

`cosign verify --key cosign.pub <image>`
Verify with a public key

`cosign verify --certificate-identity <id> --certificate-oidc-issuer <url> <image>`
Verify a keyless signature

VERIFY (cont.)

`cosign verify --key cosign.pub <image> | jq`
Read the verified payload

ATTESTATIONS

`cosign attest --key cosign.key --predicate <file> <image>@<digest>`
Attach a signed predicate

`cosign attest --type <type> --predicate <file> <image>@<digest>`
Set the predicate type

`cosign verify-attestation --key cosign.pub <image>`
Verify attestations

`cosign verify-attestation --type <type> --policy <file> --key cosign.pub <image>`
Check predicate against a policy

BLOBS

`cosign sign-blob --bundle <bundle> <file>`
Keyless sign a file into a bundle

`cosign verify-blob --bundle <bundle> --certificate-identity <id> --certificate-oidc-issuer <url> <file>`
Verify a keyless file signature

`cosign sign-blob --key cosign.key <file>`
Sign a file with a key

`cosign verify-blob --key cosign.pub --bundle <bundle> <file>`
Verify a file with a public key

INSPECT AND MANAGE

`cosign tree <image>`
Show signatures, SBOMs, attestations

`cosign version`
Print the cosign version

ENVIRONMENT

`COSIGN_PASSWORD=<pw>`
Key password without a prompt

`SIGSTORE_ID_TOKEN=<token>`
Supply an OIDC token, skip login