

Laboratory_07: Signing docker images

This laboratory covers signing image process using cosign tool.

Install cosign tool

- `curl -O -L "https://github.com/sigstore/cosign/releases/latest/download/cosign-linux-amd64"`
- `sudo mv cosign-linux-amd64 /usr/local/bin/cosign`
- `sudo chmod +x /usr/local/bin/cosign`

Install docker tool

- [Ubuntu | Docker Docs](#)

Install docker tool

- Create a docker hub account

Generate signing keys

In this section, we'll create and use a public/private key pair for the signing and verification steps.

1. Create a public/private key pair for signing
 - a. `cosign generate-key-pair`

Work with test docker image

2. Use docker pull command:
 - a. `docker pull lucj/btcprice:0.0.4`
 - b. `docker pull lucj/btcprice:0.0.5`
3. Copy image digest for both images:
 - a. Digest:
`sha256:7b08c75f45d82bedfcd1a06d970b663203b77092c84280f07f6eba87a3c843f5`

4. Tag the test image according to your dockerhub user:

- a. `docker tag lucj/btcprice:0.0.4 sflorenz05/btcprice:0.0.4`
- b. `docker tag lucj/btcprice:0.0.5 sflorenz05/btcprice:0.0.5`

5. Signing an image

- a. `cosign sign --key cosign.key
sflorenz05/btcprice@sha256:e14812c2d6d827a9402b8109c65e024fcd04cb
4f998d59329e816a9c908a4e23`

6. Review signed image:

TAG

[sha256-7b08c75f45d82bedfcd1a06d970b663203b77092c84280f07f6eba87a3c843f5.sig](#)

Last pushed 2 minutes by [sflorenz05](#)

Digest

OS/ARCH

[ba277b0f9c80](#)

7. Verify signed image:

- a. `cosign verify --key cosign.pub
sflorenz05/btcprice@sha256:7b08c75f45d82bedfcd1a06d970b663203b770
92c84280f07f6eba87a3c843f5`

8. Analyze the JWT obtained: [JSON Web Tokens - jwt.io](#)