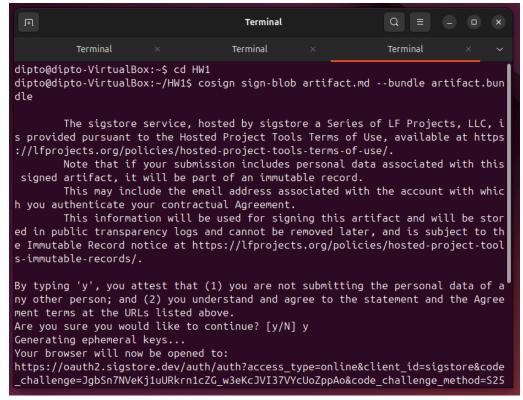
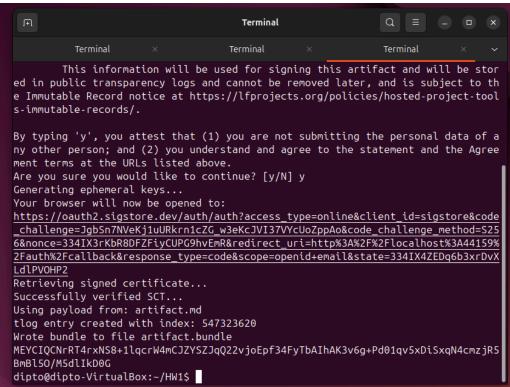
## Signing the Artifact





## Fetching the last checkpoint

```
Terminal
                                                               Q I ≡
                                    Terminal
                                                               Terminal
          Terminal
dipto@dipto-VirtualBox:~/HW1$ python3 main.py -c
    "inactiveShards": [
            "rootHash": "4d006aa46efcb607dd51d900b1213754c50cc9251c3405c6c2561d9
d6a2f3239",
            "signedTreeHead": "rekor.sigstore.dev - 3904496407287907110\n4163431
\nTQBqpG78tgfdUdkAsSE3VMUMySUcNAXGwlYdnWovMjk=\n\n\u2014 rekor.sigstore.dev wNI9
ajBFAiBUM9om2kVJemZEJmLW296qUxDlDw8GjqF2YMeiqmpUMgIhAOSxr4/cjQ/i7rNyy09i8sYMwP71
5URVQhbJh10LYlRW\n",
            "treeID": "3904496407287907110",
            "treeSize": 4163431
        },
            "rootHash": "2b9c578071e120aa84c9858783daa671565e4165f3a7dfa199aad81
940299d8e",
            "signedTreeHead": "rekor.sigstore.dev - 2605736670972794746\n1177408
31\nK5xXgHHhIKqEyYWHg9qmcVZeQWXzp9+hmarYGUApnY4=\n\n\u2014 rekor.sigstore.dev wN
I9ajBFAiEAxzV2NYqoig4cLtUohidFiUw2nyMJXI+XxhvqUcHSlooCIEB3puNAhKwBleGWE4ybmPT6Z2
s5JKO/LtmswZINNrcF\n",
"treeID": "2605736670972794746",
            "treeSize": 117740831
```

## **Verifying inclusion**

```
Terminal
                                                             Q
          Terminal
                                    Terminal
                                                             Terminal
            "rootHash": "2b9c578071e120aa84c9858783daa671565e4165f3a7dfa199aad81
940299d8e",
            "signedTreeHead": "rekor.sigstore.dev - 2605736670972794746\n1177408
31\nK5xXgHHhIKqEyYWHg9qmcVZeQWXzp9+hmarYGUApnY4=\n\n\u2014 rekor.sigstore.dev wN
I9ajBFAiEAxzV2NYqoiq4cLtUohidFiUw2nyMJXI+XxhvqUcHSlooCIEB3puNAhKwBleGWE4ybmPT6Z2
s5JKO/LtmswZINNrcF\n",
            "treeID": "2605736670972794746",
            "treeSize": 117740831
    ],
    "rootHash": "3efff575a2105421afad43763e5a5277e9e8e59765a08bd1ea6007000f62284
    "signedTreeHead": "rekor.sigstore.dev - 1193050959916656506\n425431224\nPv/1
daIQVCGvrUN2PlpSd+no5ZdloIvR6mAHAA9iKEo=\n\n\u2014 rekor.sigstore.dev wNI9ajBFAi
AgjxBlYsH6Bzmf5XJphJtyLeLW4jqf990FjnCquGtG+QIhAJf3lbLo/BPo9SevdZ0qWeubl6Hh9j10oR
OnADMiStst\n",
    "treeID": "1193050959916656506",
    "treeSize": 425431224
dipto@dipto-VirtualBox:~/HW1$ python3 main.py --inclusion 547323620 --artifact a
rtifact.md
Signature is valid
Offline root hash calculation for inclusion verified
dipto@dipto-VirtualBox:~/HW1$
```

## Verifying consistency with latest checkpoint

```
Terminal
                                                             Q =
          Terminal
                                   Terminal
            "rootHash": "2b9c578071e120aa84c9858783daa671565e4165f3a7dfa199aad81
940299d8e",
            "signedTreeHead": "rekor.sigstore.dev - 2605736670972794746\n1177408
31\nK5xXgHHhIKqEyYWHg9qmcVZeQWXzp9+hmarYGUApnY4=\n\n\u2014 rekor.sigstore.dev wN
I9ajBGAiEA5ykrPylB5Xwd4S6hWIToQFTF7fcm+KA8sqWXpkA+INcCIQC403zbPelzym0AU85fpdjts1
wl+yL4aYTv45PpoAo0xA==\n",
            "treeID": "2605736670972794746",
            "treeSize": 117740831
    "rootHash": "eaff03969fa554eb865dad54738ed7111c66e5c2829bf004231cb58af301d11
4",
    "signedTreeHead": "rekor.sigstore.dev - 1193050959916656506\n425481567\n6v8D
lp+lVOuGXa1Uc47XERxm5cKCm/AEIxy1ivMB0RQ=\n\n\u2014 rekor.sigstore.dev wNI9ajBFAi
BgROgCoSdeHemkmBrKEj0Ym3zOh4OzVrCUbGNjSE1KEAIhALV6p//6SGmCQl4t+A4vB+WyL5d/UTlCBw
gVmLJfhHZK\n",
    "treeID": "1193050959916656506",
    "treeSize": 425481567
dipto@dipto-VirtualBox:~/HW1$ python3 main.py --consistency --tree-id 1193050959
916656506 --tree-size 425481567 --root-hash eaff03969fa554eb865dad54738ed7111c66
e5c2829bf004231cb58af301d114
Consistency verification successful
dipto@dipto-VirtualBox:~/HW1$
```