## How to define compute\_note\_hash\_and\_nullifier

Aztec will automatically compute and manage notes and nullifiers that are created in smart contracts. However, in some cases, it might make sense to write custom logic for how these are computed. This is achieved through thecompute\_note\_hash\_and\_nullifier() function, which tells the <a href="https://example.com/pxt/e

## Params and returns

The function should take 5 parameters:

- · Contract address
- Nonce
- Storage slot
- · Note type ID
- · Serialiazed note

It should returnpub [Field; 4] which is an array of 4 elements that tells the PXE how to handle the notes and nullifiers:

compute\_note\_hash\_and\_nullifier\_returns [ inner\_note\_hash , siloed\_note\_hash , unique\_siloed\_note\_hash , inner\_nullifier ] Source code: noir-projects/aztec-nr/aztec/src/note/utils.nr#L105-L107 Edit this page

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