

Versions and Updating

Versions

Aztec tools (sandbox, cli, nargo), dependencies (aztec-nr), and sample contracts are constantly being improved. When developing and referring to example .nr files/snippets, it is helpful to verify the versions of different components (below), and if required keep them in lock-step by [updating](#) .

Checking tool versions

To check your version of Aztec tools, you can use `aztec-cli -V`

note The aztec-nargo versions follow nargo versions, which is different to the Aztec tool versions. The latest version of the Aztec tooling is currently `aztec-packages-v0.28.1` , updating roughly every week.

Dependency versions

Dependency versions in a contract's `Nargo.toml` file correspond to the aztec-packages repository tag aztec-packages (filter tags by aztec ...)

If you get an error like: `Cannot read file ~/nargo/github.com/AztecProtocol/aztec-packages/...` Check the `git=` github url, tag, and directory.

note The folder structure changed at 0.24.0 from `yarn-project/aztec-nr` to `noir-projects/aztec-nr` . More details [here](#)

Example contract versions

Example contracts serve as a helpful reference between versions of the aztec-nr framework since they are strictly maintained with each release.

Code referenced in the documentation is sourced from contracts within [this directory](#) .

As in the previous section, the location of the noir contracts moved at version 0.24.0 , from `yarn-project/noir-contracts` before, to `noir-projects/noir-contracts` .

tip Notice the difference between the sample Counter contract from 0.23.0 to 0.24.0 shows the `note_type_id` was added.

```
diff ~/nargo/github.com/AztecProtocol/aztec-packages-v0.23.0/yarn-project/noir-
contracts/contracts/counter_contract/src/main.nr ~/nargo/github.com/AztecProtocol/aztec-packages-v0.24.0/noir-
projects/noir-contracts/contracts/counter_contract/src/main.nr 57a58
```

```
note_type_id: Field,
```

Language server version (aztec-nargo)

The [Noir LSP](#) uses your local version of aztec-nargo , and thus also aztec-nargo compile . The path of the former (once installed) can be seen by hovering over "Nargo" in the bottom status bar of VS Code, and the latter via the `which aztec-nargo` command.

caution For Aztec contract files, this should be aztec-nargo and for noir-only files this should be nargo . Mismatching tools and file types will generate misleading syntax and compiler errors. This can present confusion when opening older contracts (and dependencies) written in older version of noir, such as:

- Logs filled with errors from the dependencies
- Or the LSP fails (re-runs automatically then stops)
- The second point requires a restart of the extension, which you can trigger with the command palette (Ctrl + Shift + P) and typing "Reload Window".

Updating

TL;DR

1. Updating the sandbox and CLI:

aztec-up 1. Updating aztec-nr and individual @aztec dependencies:

Inside your project run:

cd your/aztec/project aztec-cli update . --contract src/contract1 --contract src/contract2 The sandbox must be running for the update command to work. Make sure it is [installed and running](#) .

1. Refer [Migration Notes](#)
2. on any breaking changes that might affect your dapp

There are four components whose versions need to be kept compatible:

1. Aztec Sandbox
2. Aztec CLI
3. aztec-nargo
4. Aztec.nr
5. , the Noir framework for writing Aztec contracts

First three are packaged together in docker and are kept compatible by running `aztec-up` . But you need to update your Aztec.nr version manually or using `aztec-cli update` .

Updating Aztec.nr packages

Automatic update

aztec-cli will update your Aztec.nr packages to the appropriate version with the `aztec-cli update` command. Run this command from the root of your project and pass the paths to the folders containing the Nargo.toml files for your projects like so:

```
aztec-cli update . --contract src/contract1 --contract src/contract2
```

Manual update

To update the aztec.nr packages manually, update the tags of the aztec.nr dependencies in the Nargo.toml file.

[dependencies]

```
aztec = { git="https://github.com/AztecProtocol/aztec-packages", tag="aztec-packages-v0.7.5", directory="noir-projects/aztec-nr/aztec" } + aztec = { git="https://github.com/AztecProtocol/aztec-packages", tag="aztec-packages-v0.28.1", directory="noir-projects/aztec-nr/aztec" } - value_note = { git="https://github.com/AztecProtocol/aztec-packages", tag="aztec-packages-v0.7.5", directory="noir-projects/aztec-nr/value-note" } + value_note = { git="https://github.com/AztecProtocol/aztec-packages", tag="aztec-packages-v0.28.1", directory="noir-projects/aztec-nr/value-note" }
```

Go to the contract directory and try compiling it with `aztec-nargo compile` to verify that the update was successful:

cd /your/contract/directory aztec-nargo compile If the dependencies fail to resolve ensure that the tag matches a tag in the [aztec-packages repository](#) .

Updating aztec-nargo

aztec-nargo is updated by running:

aztec-up [Edit this page](#)

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