Self Upgrade & State Migration

Three examples on how to handle updates and tate migration:

- 1. State Migration
- 2. : How to implement amigrate
- 3. method to migrate state between contract updates.
- 4. State Versioning
- 5. : How to use readily use versioning on a state, to simplify updating it later.
- 6. Self Update
- 7. : How to implement a contract that can update itself.

State Migration

The State Migration example shows how to handle state-breaking changes between contract updates.

It is composed by 2 contracts:

- 1. Base: A Guest Book were people can write messages.
- 2. Update: An update in which we remove a parameter and change the internal structure.
- 3. Rust

contracts/basic-updates/update/src/migrate.rs loading ... See full example on GitHub

The Migration Method

The migration method descrializes the current state (OldState) and iterates through the messages, updating them to the newPostedMessage that includes thepayment field.

tip Notice that migrate is actually an<u>initialization method</u> that ignores the existing state ([#init(ignore_state)]), thus being able to execute and rewrite the state.

State Versioning

The State Versioning example shows how to use Enums to implement state versioning on a contract.

Versioning simplifies updating the contract since you only need to add a new new version of the structure. All versions can coexist, thus you will not need to change previously existing structures.

The example is composed by 2 contracts:

- 1. Base: The Guest Book contract using versionedPostedMessages
- 2. (PostedMessagesV1
- 3.).
- 4. Update: An update that adds a new version of Posted Messages
- 5. (PostedMessagesV2
- 6.).
- 7. Rust

contracts/enum-updates/update/src/versioned msg.rs loading ... See full example on GitHub

Self Update

The Self Update example shows how to implement a contract that can update itself.

It is composed by 2 contracts:

- 1. Base: A Guest Book were people can write messages, implementing aupdate_contract
- 2. method.
- 3. Update: An update in which we remove a parameter and change the internal structure.
- 4. Rust

contracts/self-updates/base/src/update.rs loading ... <u>See full example on GitHubEdit this page</u> Last updatedonDec 9, 2023 bygagdiez Was this page helpful? Yes No

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