Documentation

## **Table of Contents**

Introduction	2
Why, Where, Who	3
How	4
Workflow	5
Infrastructure	6
Dependencies	7
Smart Contracts	8
Workarounds	9
Functions	10
Internal	
privateKey User	12
publicKey User	13
Examples	14
yarn deploy ganache	15
UserXperience	
Feedback	34
Person a	34
Person b	

This aims to be the Documentation of the Erasureprotocol. Just add your information in the fitting section, cd into docs and run asciidoctor-pdf Documentation.adoc so the pdf will be generated.

# Introduction

•••

WARNING

TODO

# Why, Where, Who

## How

### Workflow

## Infrastructure

•••

WARNING

TODO

# **Dependencies**

### **Smart Contracts**

### Workarounds

## **Functions**

• • •

WARNING

TODO

### **Internal**

# privateKey User

# publicKey User

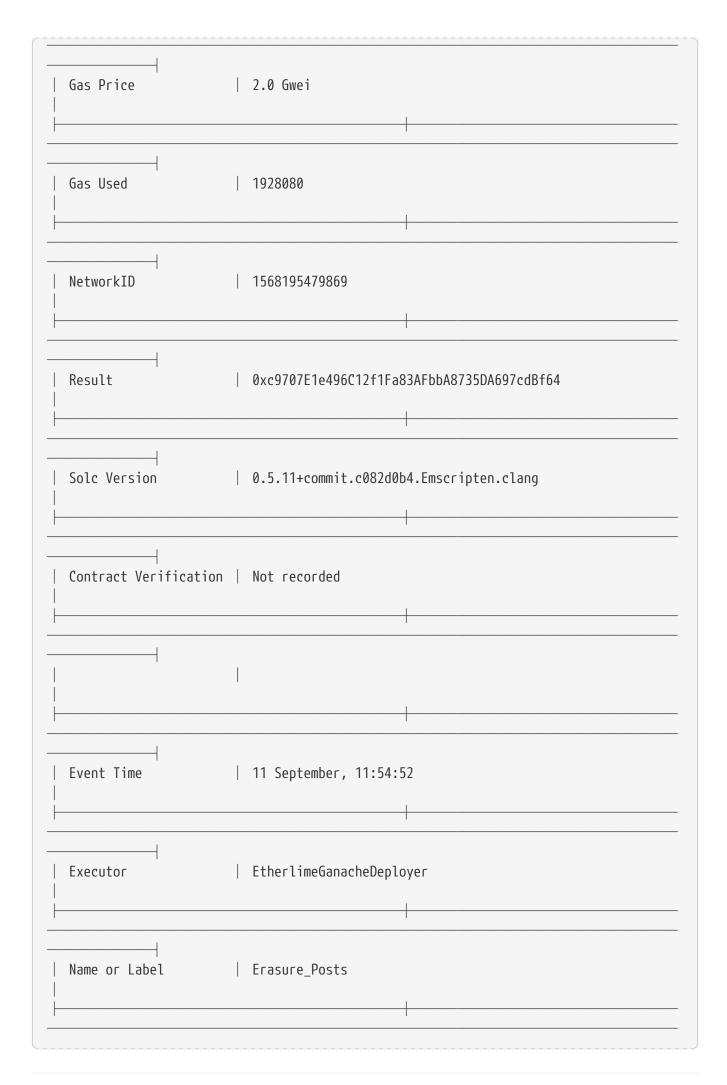
# **Examples**

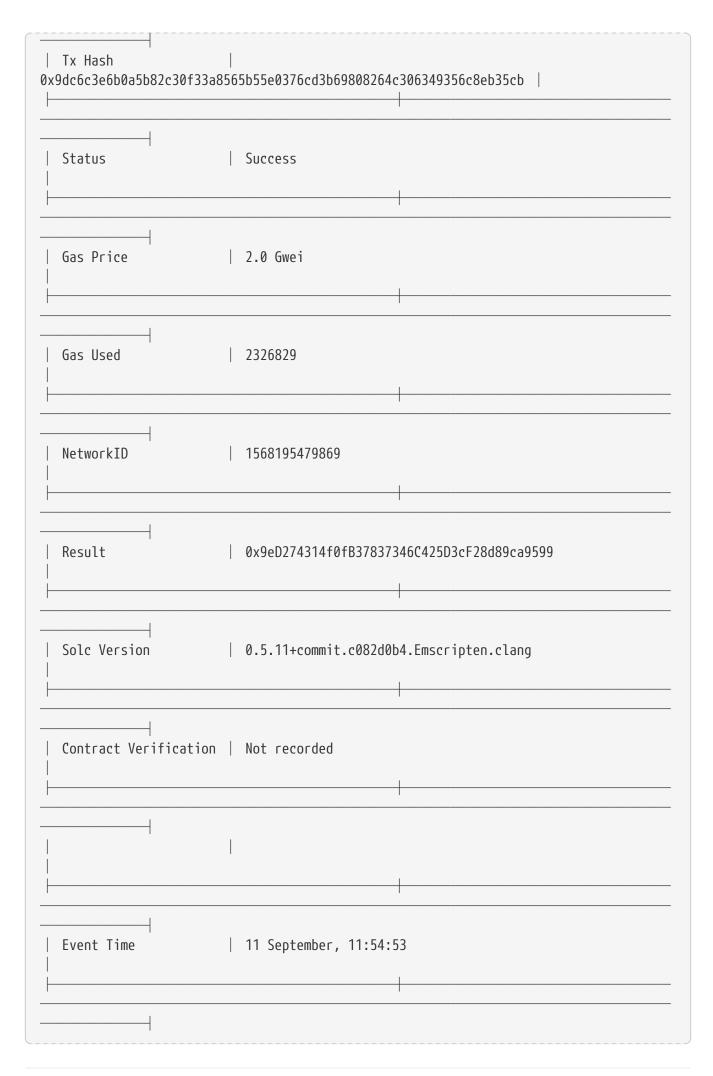
#### yarn deploy ganache

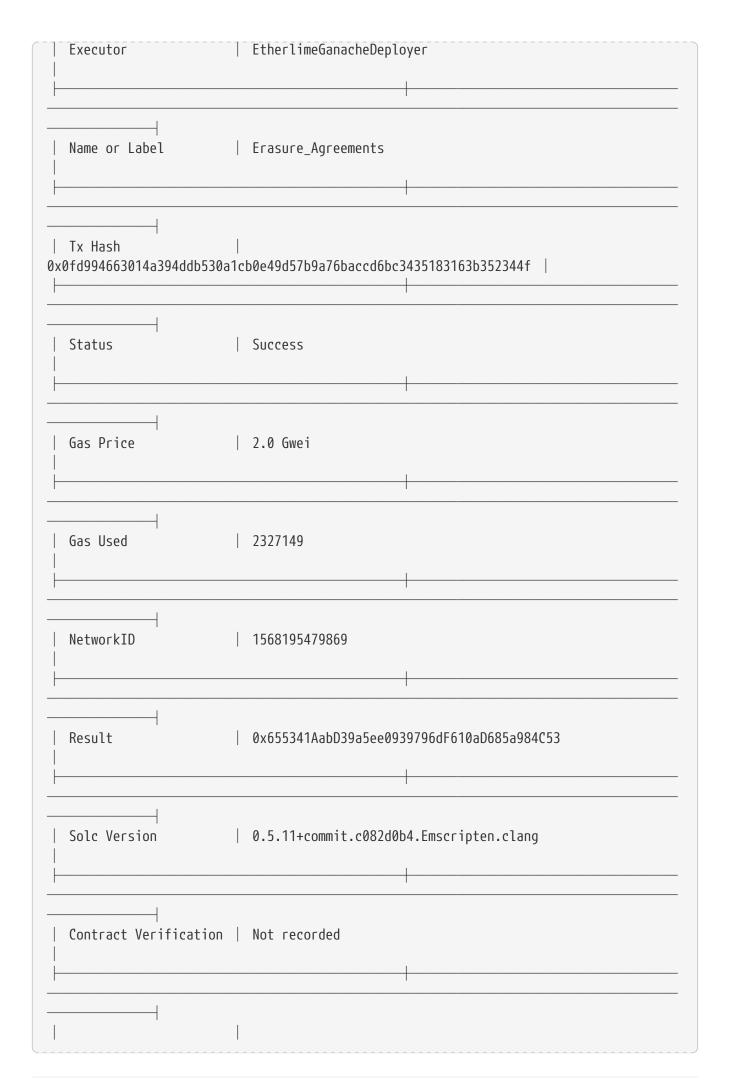
#### 09/11/2019 Output:

```
$ yarn etherlime deploy ./deployment/deploy.js --compile=false ganache
$ .../erasure-protocol/node_modules/.bin/etherlime_deploy ./deployment/deploy.js
--compile=false ganache
Deployment Wallet: 0x87e0ED760fb316eeb94Bd9cF23D1d2BE87aCe3d8
Deployer set to deploy from address: 0xD9995BAE12FEe327256FFec1e3184d492bD94C31
JSONRPC Deployer Network: http://localhost:8545/
Deploying contract: MockNMR
Contract MockNMR deployed at address: 0xc9707E1e496C12f1Fa83AFbbA8735DA697cdBf64
Deploying contract: Erasure Posts
Contract Erasure_Posts deployed at address: 0x9eD274314f0fB37837346C425D3cF28d89ca9599
Deploying contract: Erasure_Agreements
Contract Erasure Agreements deployed at address:
0x655341AabD39a5ee0939796dF610aD685a984C53
Deploying contract: Erasure Users
Contract Erasure_Users deployed at address: 0x0116090EfeC8A6c176A094d3094c58811a7eA39c
Deploying contract: Post_Factory with parameters:
0x9eD274314f0fB37837346C425D3cF28d89ca9599
Contract Post Factory deployed at address: 0xa6DD34f3CeA10D1F78c0b1F8C13eFbAbE5DF9708
Deploying contract: Feed_Factory with parameters:
0x9eD274314f0fB37837346C425D3cF28d89ca9599
Contract Feed Factory deployed at address: 0x305b8DDA35b2e9b395E63Ad7B4e845859ab3aB4e
Deploying contract: CountdownGriefing_Factory with parameters:
0x655341AabD39a5ee0939796dF610aD685a984C53
Contract CountdownGriefing_Factory deployed at address:
0xEE43f3f33d2972441251887FbB7C64D2fD55677f
Register Factories
addFactory() | Post_Factory => Erasure_Posts
Waiting for transaction to be included in a block and mined:
0x76b534cf1014c67fd685c8465eaf02c29bbf72feb342e3ac29917362ade1cf14
addFactory() | Feed Factory => Erasure Posts
Waiting for transaction to be included in a block and mined:
0xa6fa8a054aa18d6ba5b21b363a209907ef3e46e44050a3c21f764a721487c61c
addFactory() | CountdownGriefing_Factory => Erasure_Agreements
Waiting for transaction to be included in a block and mined:
0xfefcf9f705dec349f2a6d4a1298d71e5ec7742264f166a000018973adaf99bfc
```

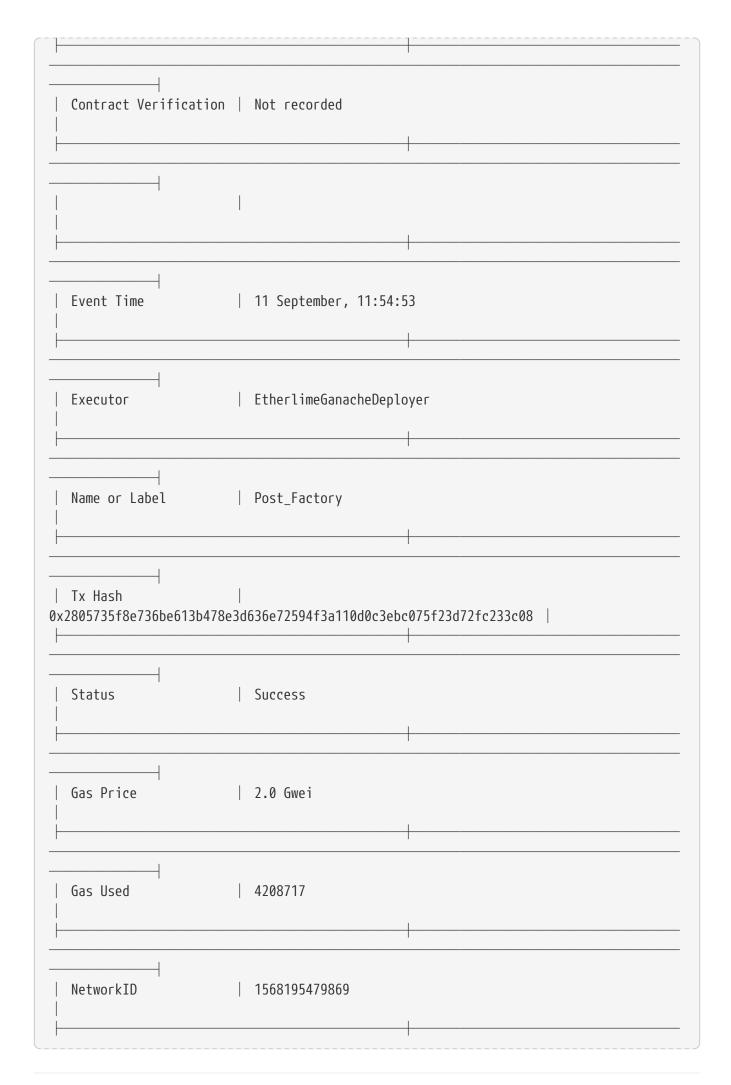
```
Transfer Registry Ownership
transferOwnership() | Erasure_Posts => 0x87e0ED760fb316eeb94Bd9cF23D1d2BE87aCe3d8
Waiting for transaction to be included in a block and mined:
0x174b2275617139c9993017d95d1db58c6bd0eff6136383e45656e8f5a56b8a0b
transferOwnership() | Erasure Agreements => 0x87e0ED760fb316eeb94Bd9cF23D1d2BE87aCe3d8
Waiting for transaction to be included in a block and mined:
0x0dba0aba8d40a5e3519ff65d7bfd4545b4ddb4b398b5050dc745d6207fbc9d84
Create test instances from factories
multihash: 0x1220c8a6fecb58509ad6757316d27f9e8c2e40ea5a0f64d215215b70310f2930ed4f
Waiting for transaction to be included in a block and mined:
0xee57520d552f6dd2e872dbcf1e5b88a495eb711431c04d7268c7aa10784e0d40
createExplicit() | Post Factory => 0x2Fb8954109c5b1544c3B4b09e1F3Fa93D5f3DFfa
Waiting for transaction to be included in a block and mined:
0x3c813d227e18a25ca66b0eb76329a5c826f374f19be707a35b8d5092ca146fe6
createExplicit() | Feed Factory => 0xDBC73fCC1166d3F6cb0CacCcF64cCb78eBc4EbF1
TypeError: contracts.CountdownGriefing_Factory.instance.createExplicit is not a
function
    at deploy (.../erasure-protocol/deployment/deploy.js:203:54)
    at process._tickCallback (internal/process/next_tick.js:68:7)
Your deployment script finished with failure!
Here is your report:
                         11 September, 11:54:52
  Event Time
   Executor
                         EtherlimeGanacheDeployer
   Name or Label
                         MockNMR
| Tx Hash
0x4e9e123cd999c45ef8c34ded1d7ef78a24e757b900bae48b348c8d257073dfd1
  Status
                         Success
```

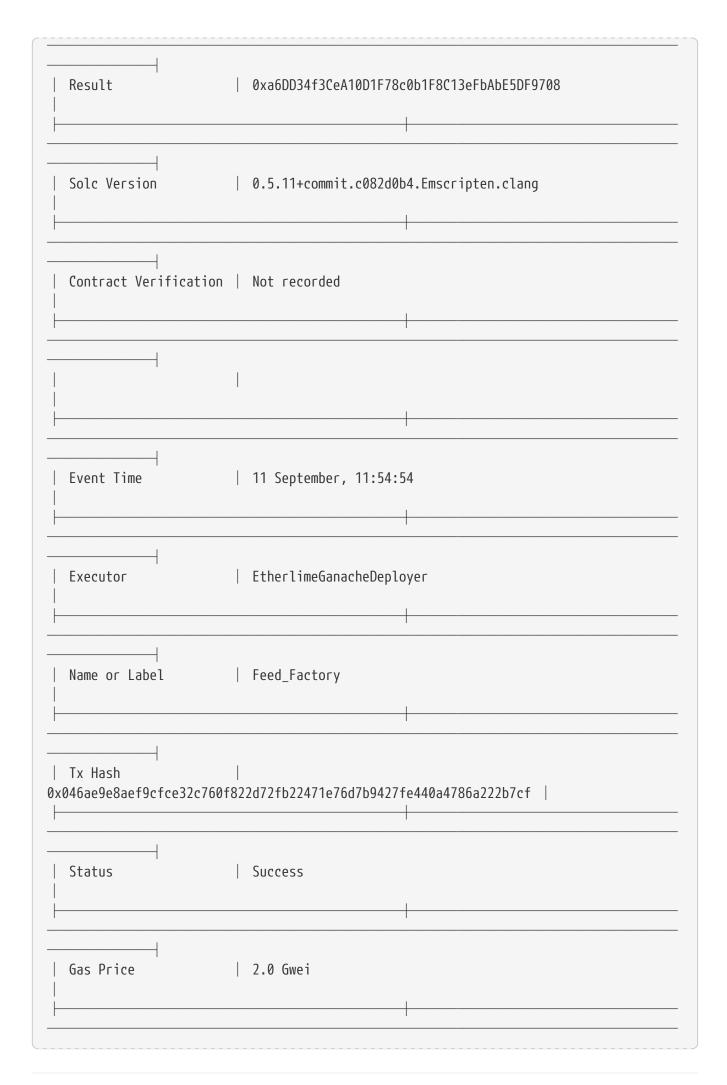


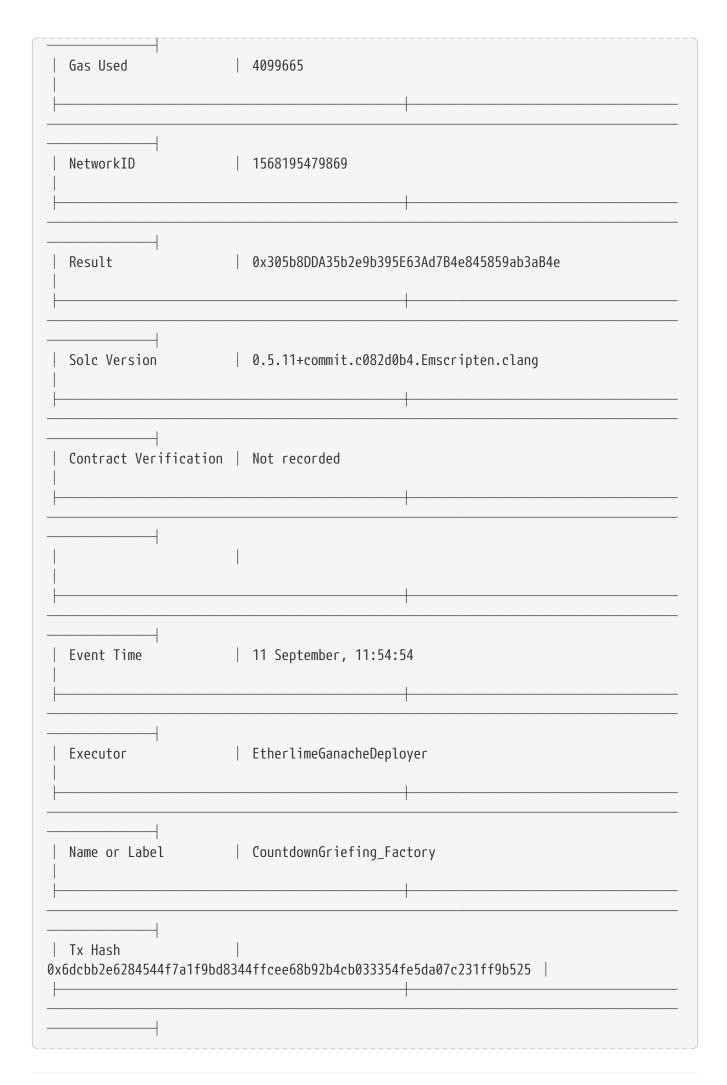


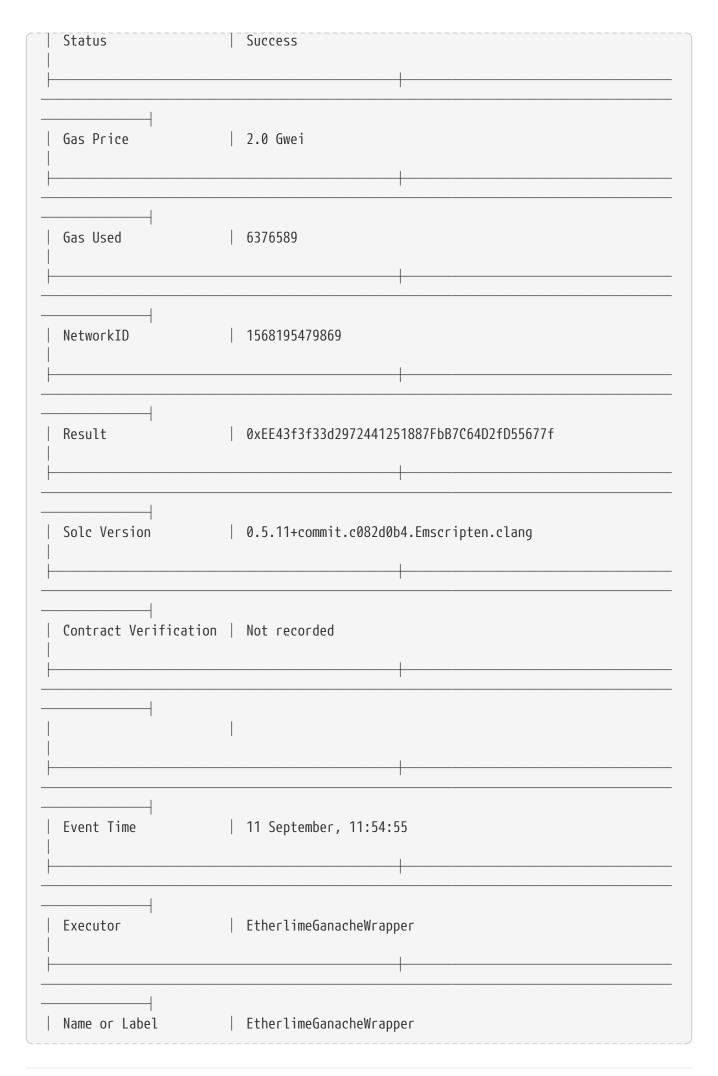


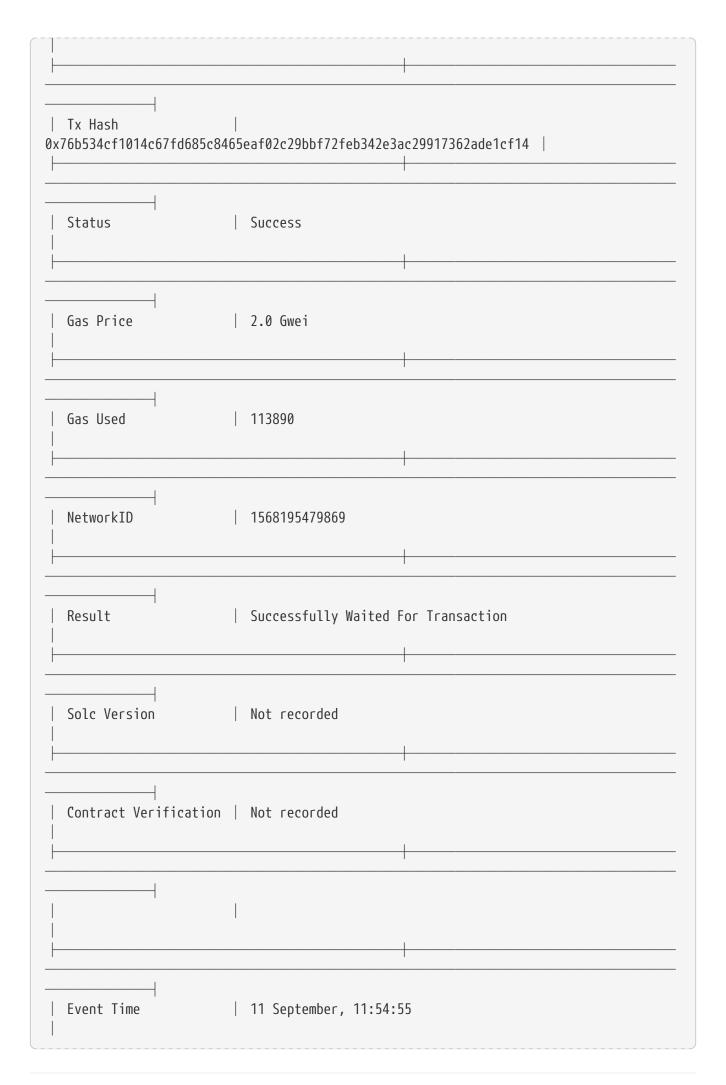




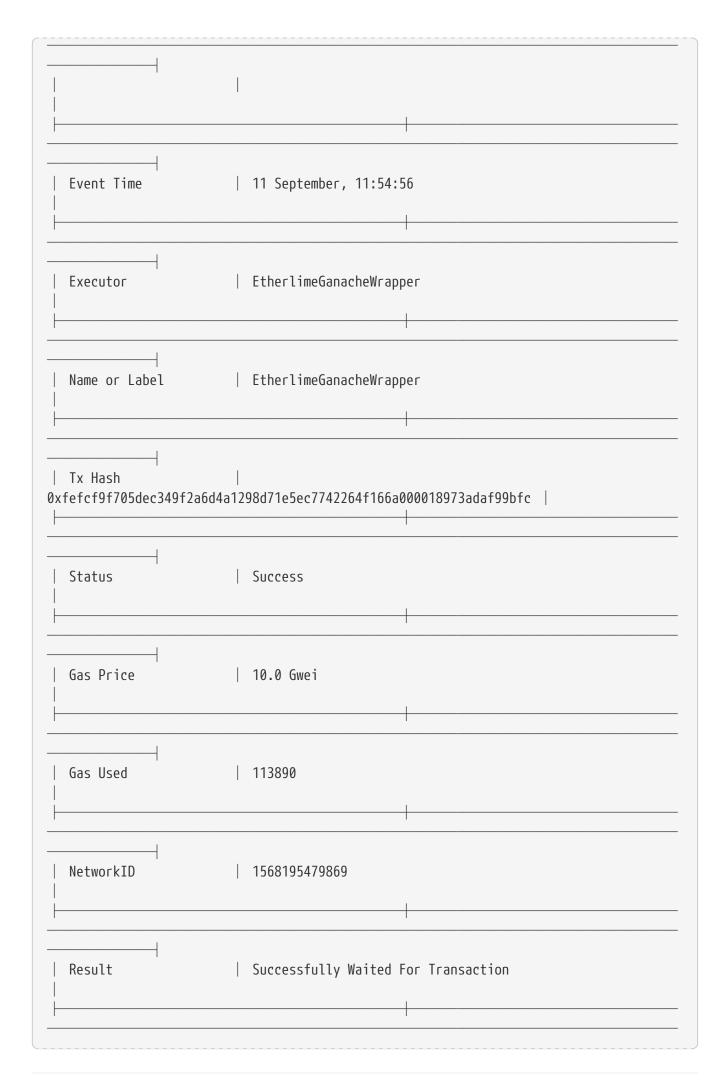


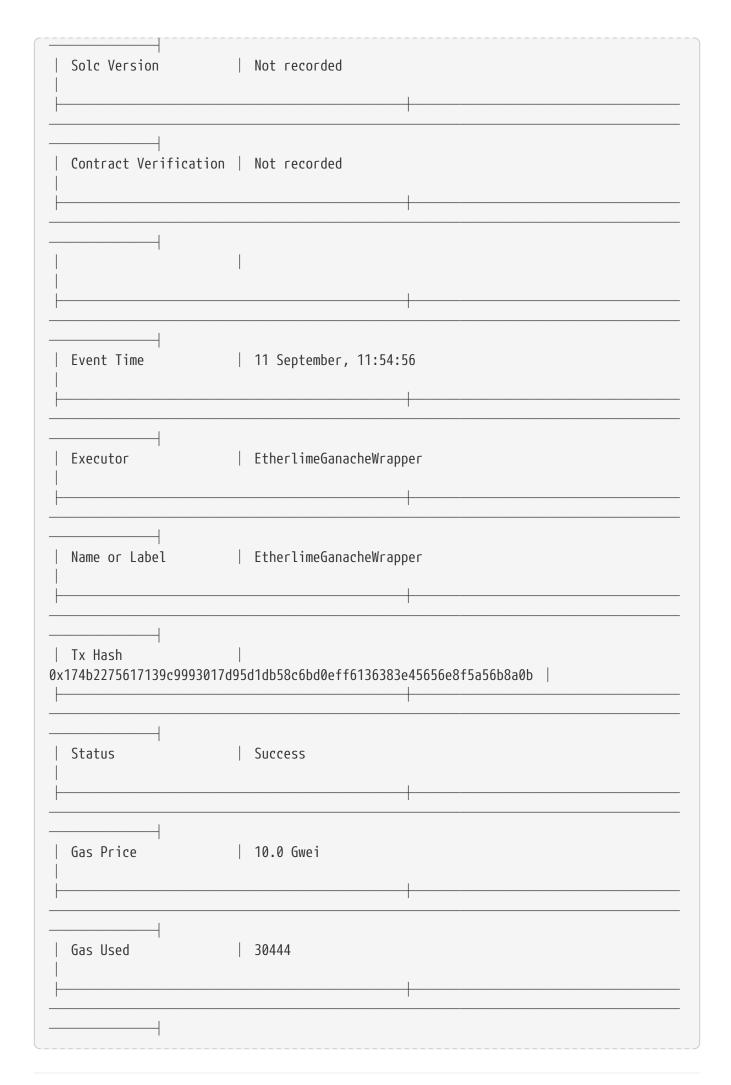


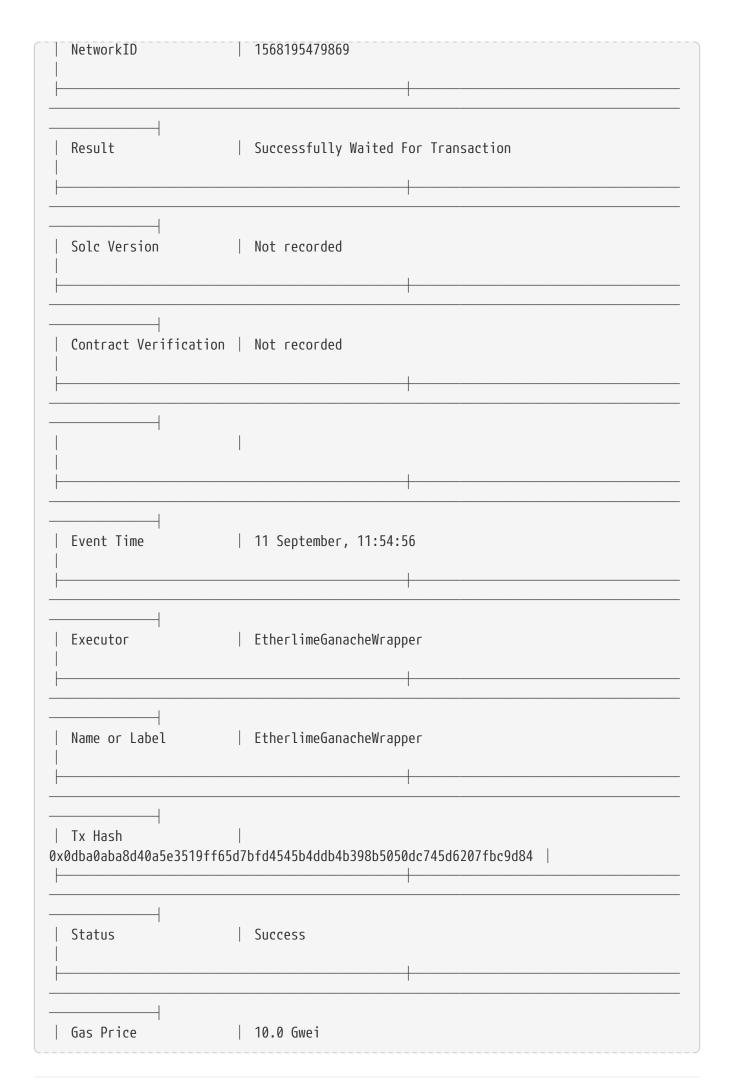


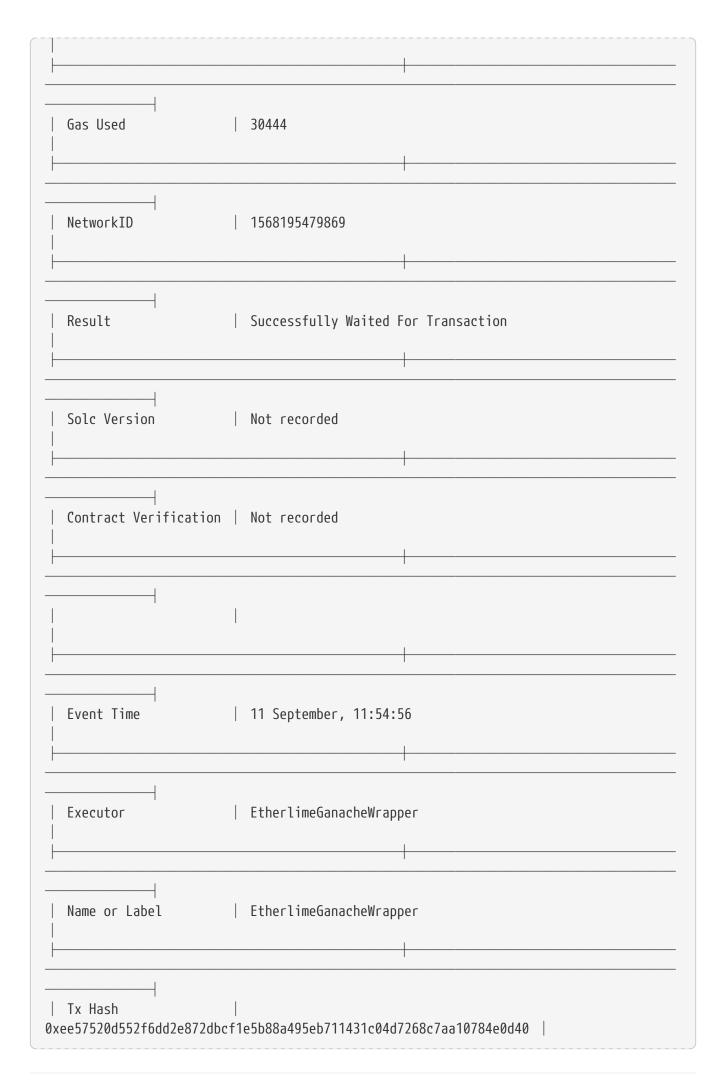


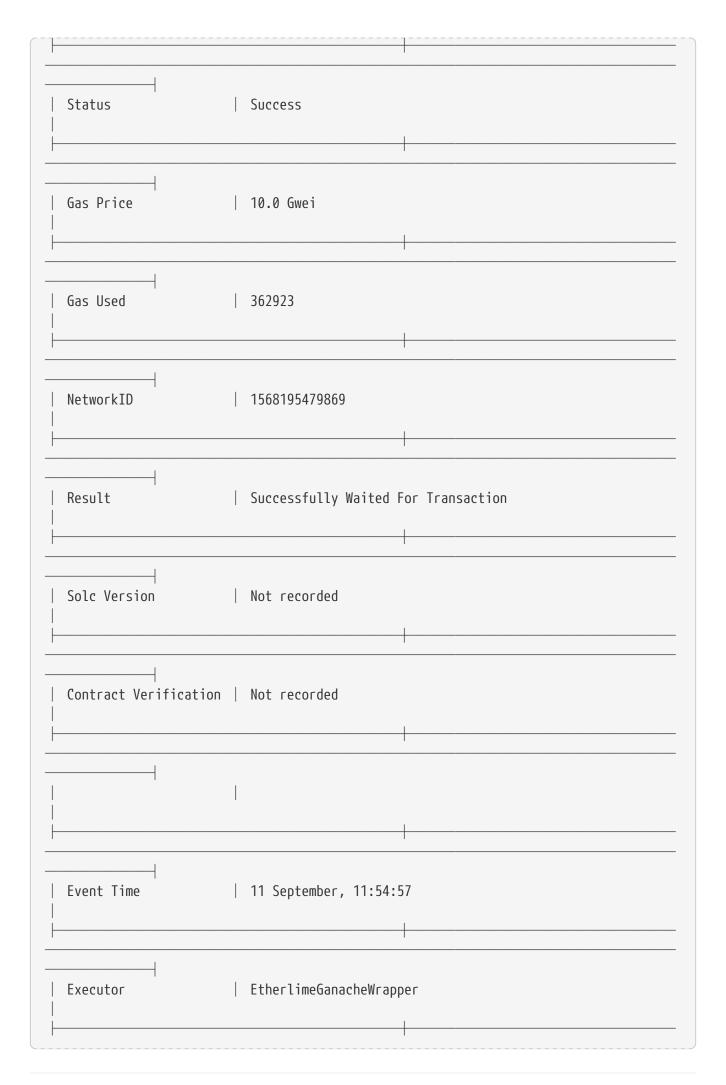














# UserXperience

This Topic aims to have a direct contact between devs via git.

#### **Feedback**

#### Person a

Ubuntu 18.04 yarn 17.03

Current Workflow worked for me like this.

\$ yarn install

Fine, but got a lot of warnings:

```
[1/4] Resolving packages...
warning etherlime > ethereum-transaction-debugger > truffle-code-utils@1.1.4: WARNING:
This package has been renamed to @truffle/code-utils.
warning etherlime > ethereum-transaction-debugger > truffle-decode-utils@1.0.4:
WARNING: This package has been renamed to @truffle/decode-utils.
warning etherlime > ethereum-transaction-debugger > truffle-solidity-utils@1.2.2:
WARNING: This package has been renamed to @truffle/solidity-utils.
warning etherlime > ethereum-transaction-debugger > truffle-decoder@2.0.1: WARNING:
This package has been renamed to @truffle/decoder.
warning etherlime > ethereum-transaction-debugger > truffle-decoder > truffle-decode-
utils@1.0.17: WARNING: This package has been renamed to @truffle/decode-utils.
warning etherlime > @0x/sol-coverage > @0x/sol-tracing-utils > istanbul@0.4.5: This
module is no longer maintained, try this instead:
  npm i nyc
Visit https://istanbul.js.org/integrations for other alternatives.
warning etherlime > ethereum-transaction-debugger > truffle-decode-utils > web3 >
web3-bzz > swarm-js > fs-promise@2.0.3: Use mz or fs-extra^3.0 with Promise Support
warning etherlime > ethereum-transaction-debugger > truffle-decode-utils > web3 >
web3-bzz > swarm-is > tar.qz@1.0.7:
                                          WARNING
                                                       tar.gz module has been
deprecated and your application is vulnerable. Please use tar module instead:
https://npmjs.com/tar
warning etherlime > @0x/sol-coverage > web3-provider-engine > ethereumjs-vm > merkle-
patricia-tree > level-ws > xtend > object-keys@0.4.0:
[2/4] Fetching packages...
info fsevents@2.0.7: The platform "linux" is incompatible with this module.
info "fsevents@2.0.7" is an optional dependency and failed compatibility check.
Excluding it from installation.
info fsevents@1.2.9: The platform "linux" is incompatible with this module.
info "fsevents@1.2.9" is an optional dependency and failed compatibility check.
Excluding it from installation.
[3/4] Linking dependencies...
[4/4] Building fresh packages...
success Saved lockfile.
```

\$ yarn compile

First run hang up, after reboot Done in 54 s.

\$ yarn flatten

throws. After some research i saw that you have to specifiy a soliditiy file.

\$ yarn ganache

works and creates a Test-environment.

So now

\$ yarn test

runs and all tests are working.

\$ yarn coverage

worked after changing ./contracts/wrappers/FeedCreator.sol to FeedManager.sol until it throws at different stages. Mostly it throws at Feed.initialize ...

\$ yarn deploy

also fails. I dont know where and how to set network and secret.

Solved by: https://github.com/erasureprotocol/erasure-protocol/issues/193

TIP

First run export DEPLOYMENT\_PRIV\_KEY=<priv key from ganache> and then yarn deploy ganache.

#### Person b