# Upgrades

This page covers all installation steps required by various upgrades to testnets.

## Latest Upgrade

## Namada shielded expedition 2v0.31.8

upgrade

In order to upgrade to the latest version of the Namada protocol, please follow the steps from this hackmd(opens in a new tab)

## Shielded expedition

- Namada Shielded expedition 2:
- 
  - From date: 6th of February 2024 18:00 UTC
- 
  - Namada protocol version:v0.31.9
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:shielded-expedition.88f17d1d14
- Namada Shielded expedition 1 (offline):
- 
  - From date: 1st of February 2024 18:00 UTC
- 
  - Namada protocol version:v0.31.0
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:shielded-expedition.3d767ac5d5

## Latest Testnet

- Namada public testnet 15 (offline):* From date: 18th of December 2023 17:00 UTC
- 
  - Namada protocol version:v0.28.1
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:public-testnet-15.0dacadb8d663

## Testnet History Timeline

- Namada public testnet 14 (offline):
- 
  - From date: 5th of October 2023 17:00 UTC
- 
  - Namada protocol version:v0.23.0
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:public-testnet-14.5d79b6958580
- Namada public testnet 13 (offline):
- 
  - From date: 12th of September 2023 17:00 UTC
- 
  - Namada protocol version:v0.22.0
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:public-testnet-13.facd514666d5
- Namada public testnet 12:

- 
  - From date: 17th of August 2023 17.00 UTC
- 
  - Namada protocol version:v0.21.1
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:public-testnet-12.fedec12f3428
- Namada public testnet 11:
- 
  - From date: 2nd of August 2023 17.00 UTC
- 
  - Namada protocol version:v0.20.1
- 
  - Cometbft version:0.37.2
- 
  - CHAIN_ID:public-testnet-11.cc649ddd49b0
- Namada public testnet 10:
- 
  - From date: 29th of June 2023 17.00 UTC
- 
  - Namada protocol version:v0.17.5
- 
  - Cometbft version:v0.1.4-abciplus
- 
  - CHAIN_ID:public-testnet-10.3718993c3648
- Namada public testnet 9:
- 
  - From date: 20th of June 2023 17.00 UTC
- 
  - Namada protocol version:v0.17.3
- 
  - Cometbft version:v0.1.4-abciplus
- 
  - CHAIN_ID:public-testnet-9.3718993c3648
- Namada public testnet 8:
- 
  - From date: 17th of May 2023 17.00 UTC
- 
  - Namada protocol version:v0.15.3
- 
  - Tendermint version:v0.1.4-abciplus
- 
  - CHAIN_ID:public-testnet-8.0.b92ef72b820
- Namada public testnet 7:
- 
  - From date: 24th of April 2023 17.00 UTC
- 
  - Namada protocol version:v0.15.1
- 
  - Tendermint version:v0.1.4-abciplus
- 
  - CHAIN_ID:public-testnet-7.0.3c5a38dc983
- Namada public testnet 6:
- 
  - From date: 29th of March 2023 17.00 UTC
- 
  - Namada protocol version:v0.14.3
- 
  - Tendermint version:v0.1.4-abciplus
- 
  - CHAIN_ID:public-testnet-6.0.a0266444b06
- Namada public testnet 5:
- 
  - From date: 15th of March 2023
- 
  - Namada protocol version:v0.14.2
-

- - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-5.0.d25aa64ace6
- Namada public testnet 4:
  - - From date: 22nd of February 2023

  - - Namada protocol version:v0.14.1

  - - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-4.0.16a35d789f4
- Namada public testnet 3 hotfix (did not suffice):
  - - From date: 13th of February 2023

  - - Namada protocol version:v0.13.4

  - - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-3.0.81edd4d6eb6
- Namada public testnet 3:
  - - From date: 9th of February 2023

  - - Namada protocol version:v0.13.3

  - - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-3.0.81edd4d6eb6
- Namada public testnet 2.1.2 hotfix:
  - - From date: 25th of January 2023

  - - Namada protocol version:v0.13.3

  - - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-2.1.4014f207f6d
- Due to a bug, a hotfix(opens in a new tab)
- was released.
- This needed to be installed and applied before18:00:00 UTC
- on2023-01-25
- .
- Namada public testnet 2.1.2:
  - - From date: 24th of January 2023

  - - Namada protocol version:v0.13.2

  - - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-2.1.4014f207f6d
- Namada public testnet 2.1:
  - - From date: 17th of January 2023

  - - Namada protocol version:v0.13.1-hardfork

  - - (hardfork)

  - - Tendermint version:v0.1.4-abciplus

  - - CHAIN_ID:public-testnet-2.0.2feaf2d718c

The above hardfork was meant to take effect on Block Height37370 , but some issues arose. You can read more here(opens in a new tab) .

- Namada public testnet 2.0:

- 
  - From date: 12th of January 2023
- 
  - Namada protocol version:v0.13.0
- 
  - Tendermint version:v0.1.4-abciplus
- 
  - CHAIN_ID:public-testnet-2.0.2feaf2d718c
- Namada public testnet 1:
- 
  - Namada protocol version:v0.12.0
- 
  - Tendermint version:v0.1.4-abciplus
- 
  - Genesis time: 20th of December 2022 at 17:00 UTC
- 
  - CHAIN_ID:public-testnet-1.0.05ab4adb9db

# Upgrade History:

19/05/2023 public-testnet-8 hot-fix

Due to some issues with our mempool validation, the testnet halted starting at block height8073 . We fixed this issue and released a hot-fix version to a subset of the validators. This was sufficient to keep the testnet going. It did require some validators to resync the testnet. The chain was launched with chain-idpublic-testnet-8.0.b92ef72b820

24/04/2023 public-testnet-7 (offline)

The testnet launched on 24/04/2023 at 17:00 UTC with the genesis validators frompublic-testnet-7 . It launches withversion v0.15.1(opens in a new tab) The chain was launched with chain-idpublic-testnet-7.0.3c5a38dc983 .

The intended fix to solve the storage issue was only partially solved. This led tov0.15.3 which intended to fix these issues.

13/02/2023 public-testnet-3

On09/02/2023 the Namada chainpublic-testnet-3 halted due to a bug in the Proof of Stake implementation when handling an edge case. Over the weekend, the team were able to fix and test a new patch that resolves the issue at hand. On13/02/2023 11:30 UTC , we were able to recover the network by having internal validators upgrade to the new patch. We are now calling on validators to upgrade to the new testnet as well, which will allow you to interact with the recovered chain.

Upgrading

1. Begin by stopping all instances of the namada node

killall

namadan 1. Build the new tag (or download the binarieshere(opens in a new tab) 2. )

cd

namada export NAMADA_TAG = v0.13.4 make

build-release 1. Copy the new binaries to path. More in depth instructions can be found athere 2. Once this has been completed,the node must tesync from genesis 3. (see below)

How to resync from genesis:

1. As a precautionary measure, make a backup of your pregenesis keys

mkdir

backup-pregenesis

&&

cp

-r

.namada/pre-genesis

backup-pregenesis/ 1. Delete the relevant folder in .namada

rm

-r

.namada/public-testnet-3.0.81edd4d6eb6 rm

.namada/public-testnet-3.0.81edd4d6eb6.toml WARNING: Do not delete the entire.namada folder, as it contains your pre-genesis keys. If this is accidentally done, you will have to copy over the backup-pregenesis file.

1. Rejoin the network

export CHAIN_ID = "public-testnet-3.0.81edd4d6eb6" namada

client

utils

join-network \ --chain-id CHAIN_ID --genesis-validator ALIAS 1. Run the node. One can simply run the ledger again using the familiar command

# NAMADA_CMT_STDOUT

true

namada

node

ledger

run Please reach out with any questions if you have any. This upgrade can be done asynchronously, but if you wish to continue validating the chain and testing our features, you must execute the above steps.

## Hotfix for Testnetpublic-testnet-2.1.4014f207f6d

27/01/2023

The hotfixed testnet ran during the week, when a strange bug caused the network to stall. The core team spent 1 week investigating the cause of the bug, and the result they found was quite interesting. If you are curious about the specific details of the bug, please have a read through Ray's blog posthere(opens in a new tab) .

25/01/2023

At around 06:15 UTC 25/01/2023, a validator with very little stake was scheduled to become part of the active validator set. From this tx, we discovered a conversion bug between the Namada state machine and Cometbft, which lead to a crash in the node. A patch was releasedv0.13.3(opens in a new tab) in order to deal with this issue.

23/01/2023

A new testnet was released before the fortnightly testnet release schedule due to the below hardfork not working as intended. Follow the steps insetting up a new testnet

## Hardfork v0.13.1

This hardfork is set to be instantiated at block height37370 , which is predicted to occur at around 17.00 UTC on 18/01/2023.

Requirements to do before 17.00 UTC 18/01/2023

In order to install this upgrade, a user or validator must

1. Download the binaries(opens in a new tab)
2. or install themfrom source(opens in a new tab)
3. Ensure the versions are correct, such that/namada --version
4. isv0.13.1-hardfork
5. Interrupt thenamada ledger
6. by the interrupt command^C
7. Install the binaries ontoPATH
8. (this depends on your machine). This must be done after interrupting the ledger, as otherwise an error is likely to be

thrown.
9. As soon as possible, restart the ledger by runningNAMADA_CMT_STDOUT=true namada node ledger run

The ledger will then update correctly at the correct height. In order to ensure a smooth fork, please do this as soon as possible.

[Becoming a validator after genesis](#) [Using the testnet faucet](#)