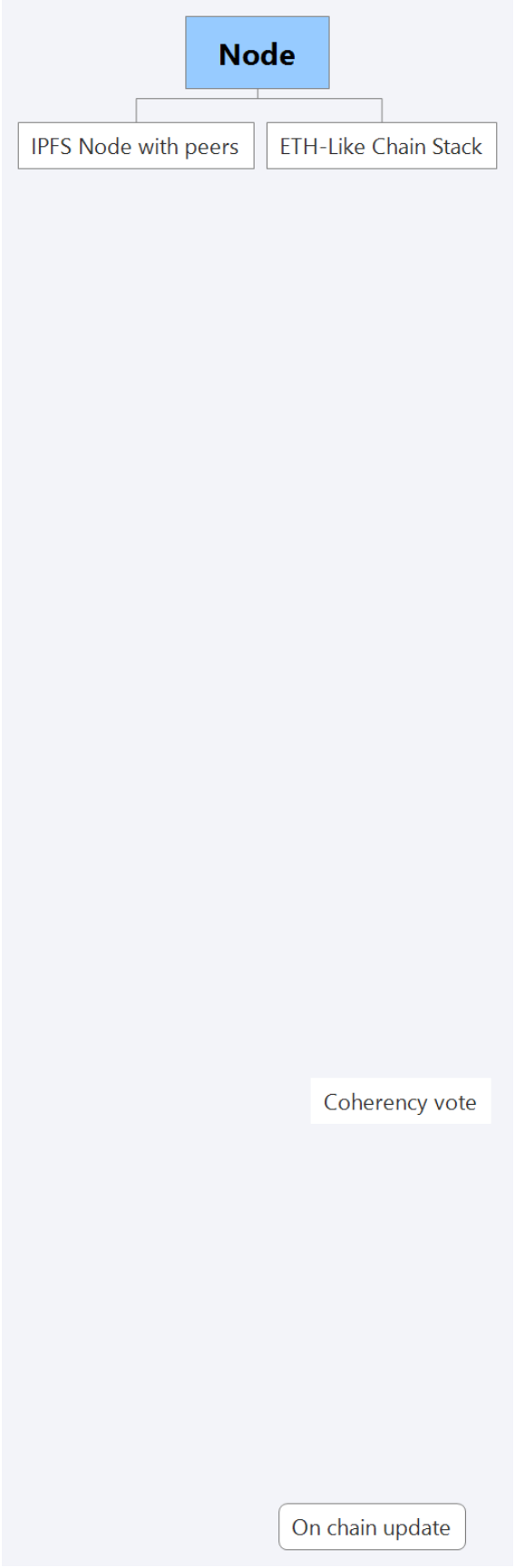
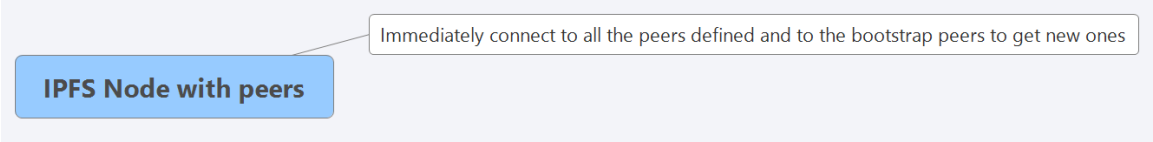
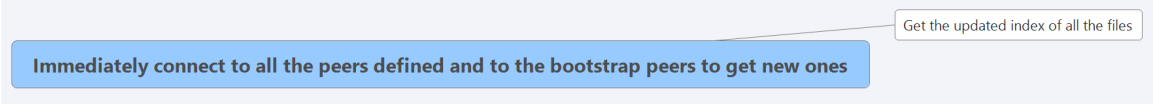
# Node


Node
IPFS Node with peers
ETH-Like Chain Stack
Coherency vote
On chain update

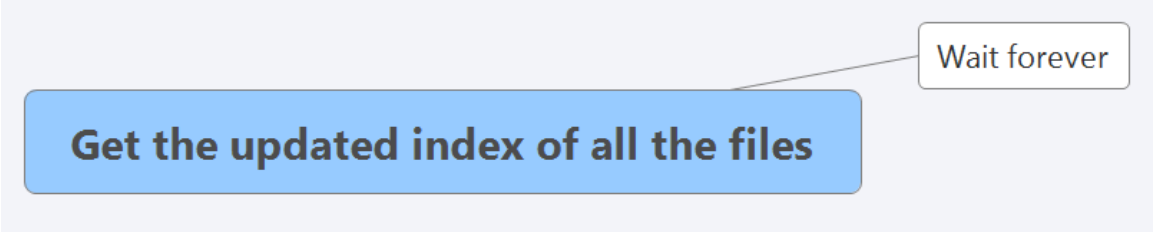
# 1. IPFS Node with peers



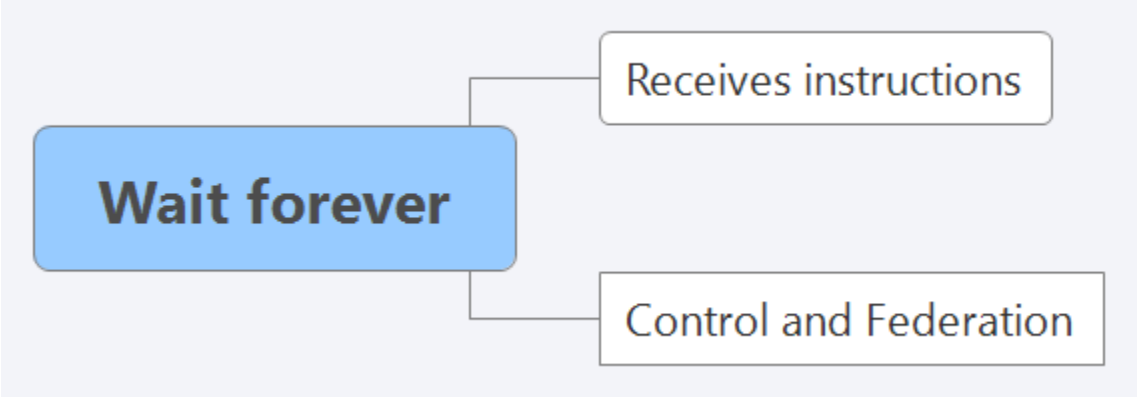

## 1.1. Immediately connect to all the peers defined and to the bootstrap peers to get new ones



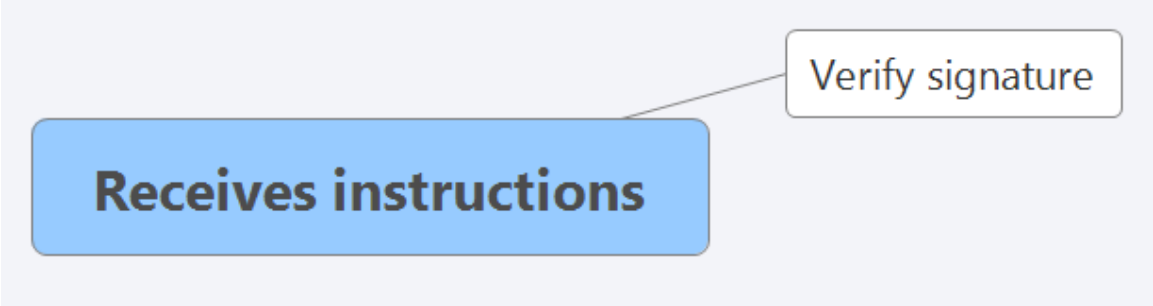

### 1.1.1. Get the updated index of all the files




#### 1.1.1.1. Wait forever




##### 1.1.1.1.1. Receives instructions

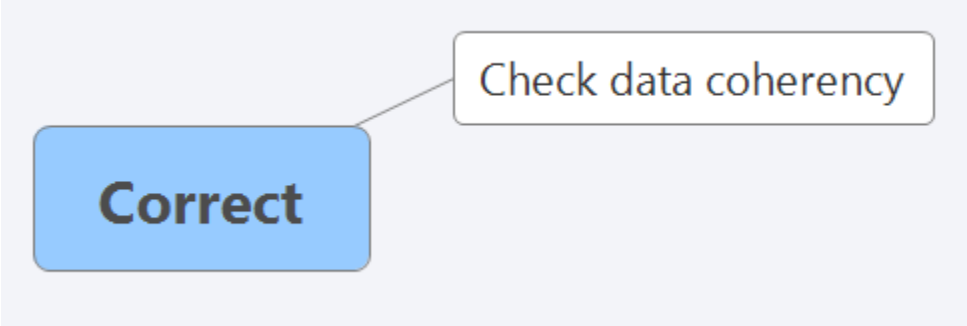



**1.1.1.1.1.1. Verify signature**

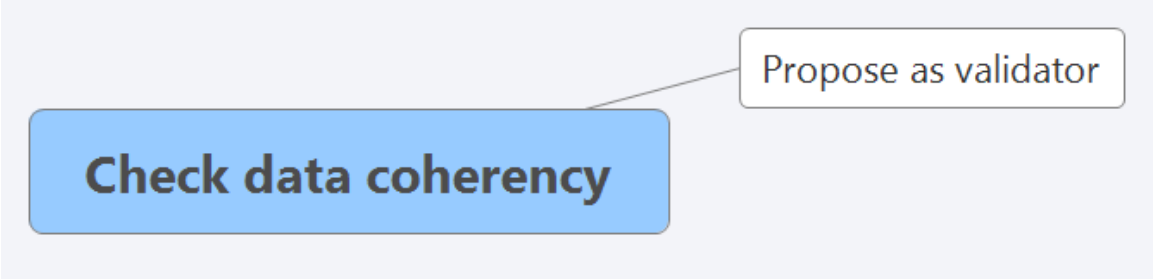

1.1.1.1.1.1.1. Incorrect

**Vedi anche:** Propose as validator

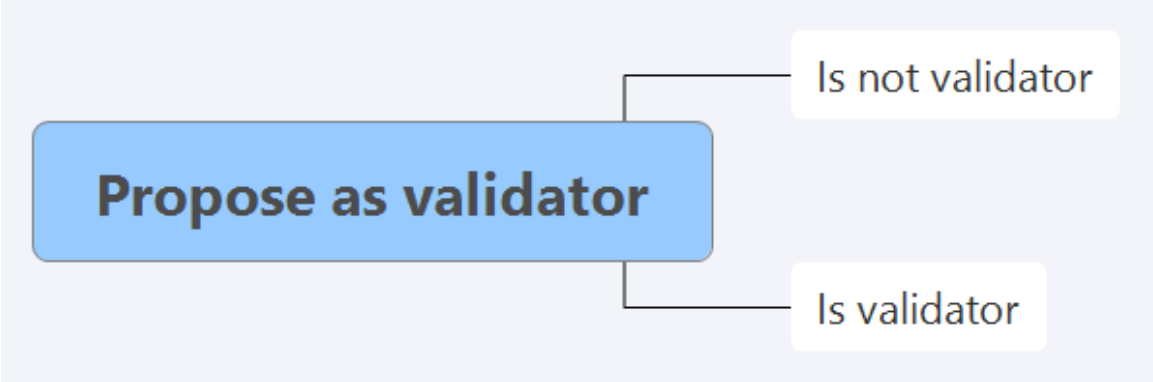
1.1.1.1.1.1.2. Correct




1.1.1.1.1.1.2.1. Check data coherency

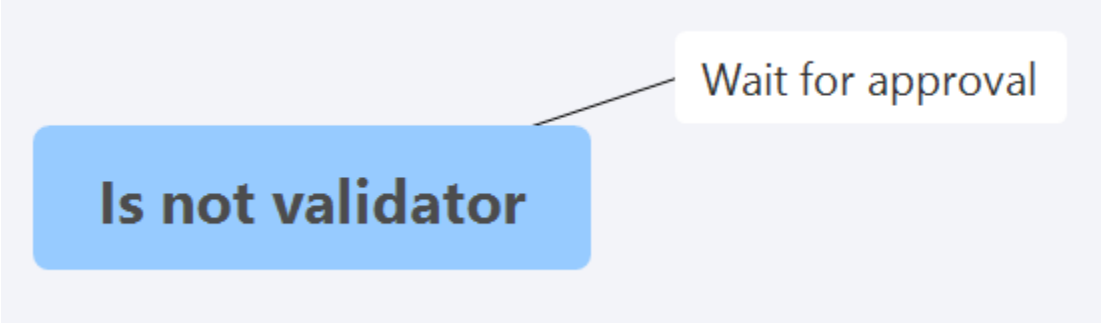



1.1.1.1.1.1.2.1.1. Propose as validator

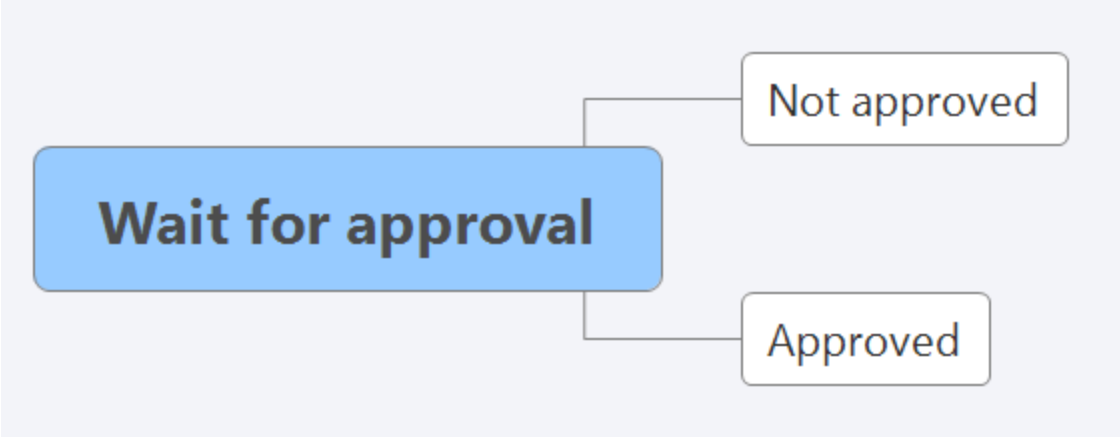



**Vedi anche:** Incorrect, Validators voting

1.1.1.1.1.1.2.1.2. Is not validator

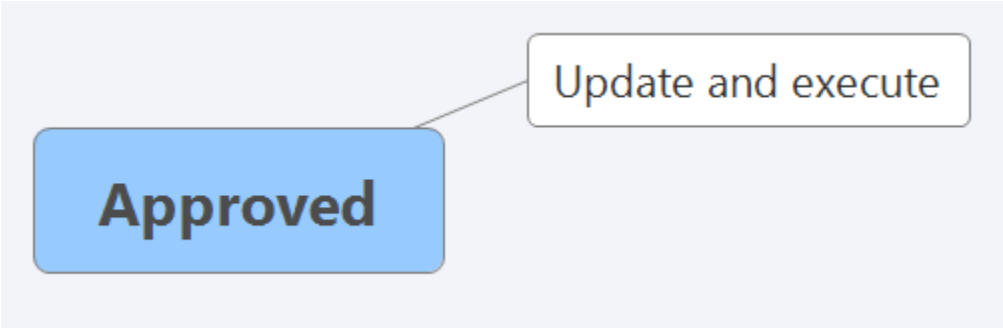



1.1.1.1.1.1.2.1.3. Wait for approval




1.1.1.1.1.1.2.1.4. Not approved

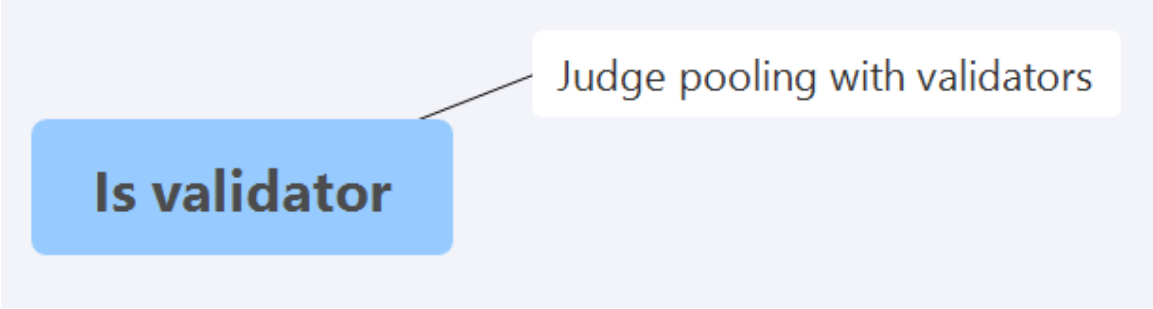
1.1.1.1.1.1.2.1.5. Approved




1.1.1.1.1.1.2.1.6. Update and execute

**Vedi anche:** On chain update

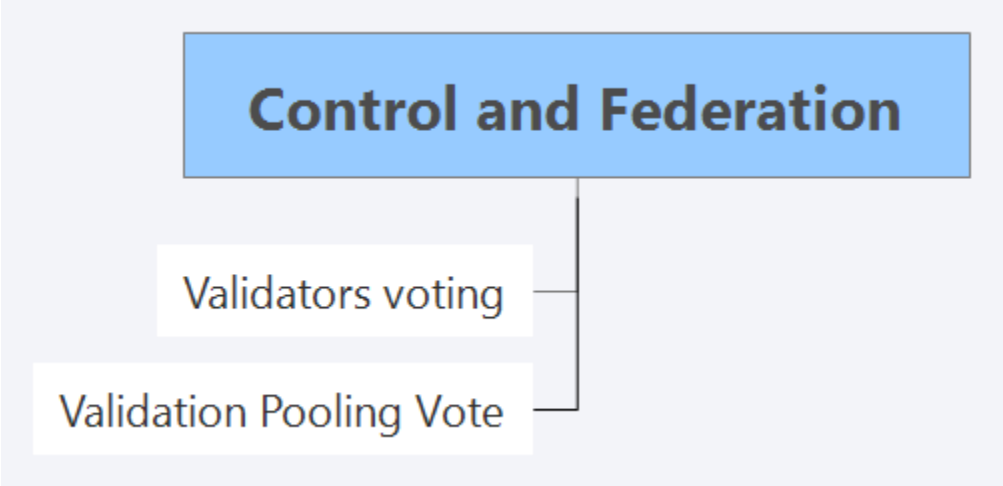
1.1.1.1.1.1.2.1.7. Is validator



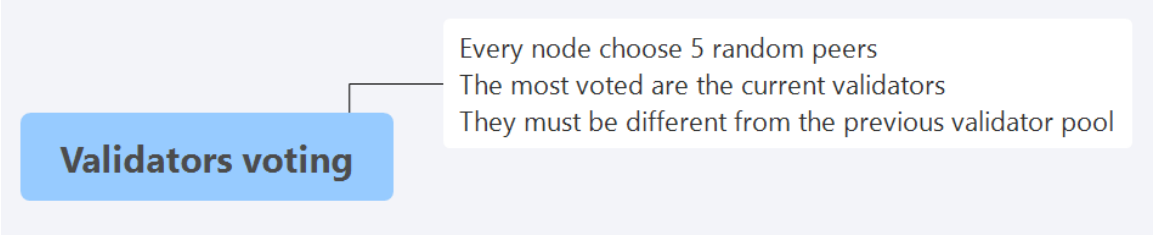

1.1.1.1.1.1.2.1.8. Judge pooling with validators

**Vedi anche:** Coherency vote

#### 1.1.1.1.2. Control and Federation




##### 1.1.1.1.2.1. Validators voting




**Vedi anche:** Propose as validator

1.1.1.1.2.1.1. Every node choose 5 random peers

The most voted are the current validators

They must be different from the previous validator pool

##### 1.1.1.1.2.2. Validation Pooling Vote

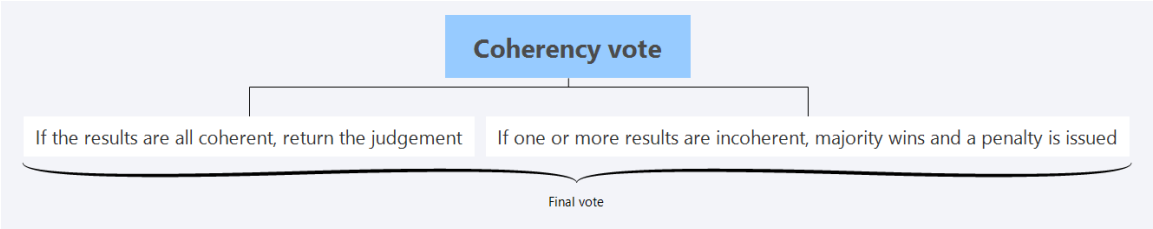
**Vedi anche:** Coherency vote

## 2. ETH-Like Chain Stack


### 2.1. Blocks contains results, to be compatible with ETH queries

**Vedi anche:** On chain update

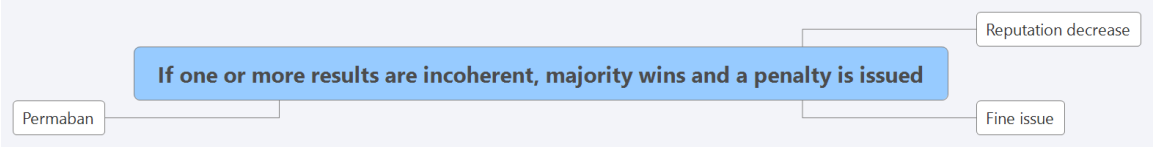
## Coherency vote




**Vedi anche:** Validation Pooling Vote, Judge pooling with validators

**If the results are all coherent, return the judgement**

**If one or more results are incoherent, majority wins and a penalty is issued**




**Reputation decrease**

**Fine issue**

**Permaban**

**Final vote(If the results are all coherent, return the judgement, If one or more results are incoherent, majority wins and a penalty is issued)**

## On chain update

**Vedi anche:** Update and execute, Blocks contains results, to be compatible with ETH queries