

doanha@proglang-thinkpad:~\$ tezos-client -l transfer 10 from ha to bob3 --burn-cap 0.257

>>>>0: http://localhost:8732/network/version

<<<<0: 200 OK

```
{ "chain_name": "TEZOS_ALPHANET_CARTHAGE_2019-11-28T13:02:13Z",  
  "distributed_db_version": 0, "p2p_version": 0 }
```

>>>>1: http://localhost:8732/chains/main/blocks/head/protocols

<<<<1: 200 OK

```
{ "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",  
  "next_protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb" }
```

>>>>2:

http://localhost:8732/chains/main/blocks/head/context/contracts/tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z/counter

<<<<2: 200 OK

```
"709691"
```

>>>>3:

http://localhost:8732/chains/main/blocks/head/context/contracts/tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z/manager_key

<<<<3: 200 OK

```
"edpkutbv6xm9dUJwU4VFwG4sxTV6UvSf4gvrdJHZMukghtFp496gDP"
```

>>>>4: http://localhost:8732/monitor/bootstrapped

<<<<4: 200 OK

```
{ "block": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",  
  "timestamp": "2020-05-04T07:37:07Z" }
```

Node is bootstrapped, ready for injecting operations.

>>>>5: http://localhost:8732/chains/main/blocks/head/context/constants

<<<<5: 200 OK

```
{ "proof_of_work_nonce_size": 8, "nonce_length": 32,  
  "max_revelations_per_block": 32, "max_operation_data_length": 16384,  
  "max_proposals_per_delegate": 20, "preserved_cycles": 3,  
  "blocks_per_cycle": 2048, "blocks_per_commitment": 32,  
  "blocks_per_roll_snapshot": 256, "blocks_per_voting_period": 2048,  
  "time_between_blocks": [ "30", "40" ], "endorsers_per_block": 32,  
  "hard_gas_limit_per_operation": "1040000",  
  "hard_gas_limit_per_block": "10400000",  
  "proof_of_work_threshold": "70368744177663",  
  "tokens_per_roll": "8000000000", "michelson_maximum_type_size": 1000,  
  "seed_nonce_revelation_tip": "125000", "origination_size": 257,  
  "block_security_deposit": "512000000",  
  "endorsement_security_deposit": "64000000",  
  "baking_reward_per_endorsement": [ "1250000", "187500" ],  
  "endorsement_reward": [ "1250000", "833333" ], "cost_per_byte": "1000",  
  "hard_storage_limit_per_operation": "60000",  
  "test_chain_duration": "43200", "quorum_min": 3000, "quorum_max": 7000,  
  "min_proposal_quorum": 500, "initial_endorsers": 24,  
  "delay_per_missing_endorsement": "2" }
```

>>>>6: http://localhost:8732/chains/main/blocks/head/hash

<<<<6: 200 OK

```
"BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43"
```

>>>>7: http://localhost:8732/chains/main/chain_id

<<<<7: 200 OK

```

"NetXjD3HPJJmcd"
>>>>8: http://localhost:8732/chains/main/chain_id
<<<<8: 200 OK
"NetXjD3HPJJmcd"
>>>>9: http://localhost:8732/chains/main/blocks/head/helpers/scripts/run_operation
{ "operation":
  { "branch": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
    "contents":
      [ { "kind": "transaction",
          "source": "tz1VmefgyE1YPcAa8VurxihsUjXzLUX6HY8Z", "fee": "0",
          "counter": "709692", "gas_limit": "1040000",
          "storage_limit": "60000", "amount": "10000000",
          "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ" } ],
    "signature":

"edsigtXomBKi5CTrf5cjATJWSyaRvhfYNHqSUGrn4SdbYRcGwQrUGjzEfQDTuqHhuA8b2d8
NarZjz8TRf65WkpQmo423BtomS8Q" },
  "chain_id": "NetXjD3HPJJmcd" }
<<<<9: 200 OK
{ "contents":
  [ { "kind": "transaction",
      "source": "tz1VmefgyE1YPcAa8VurxihsUjXzLUX6HY8Z", "fee": "0",
      "counter": "709692", "gas_limit": "1040000",
      "storage_limit": "60000", "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
      "metadata":
        { "balance_updates": [],
          "operation_result":
            { "status": "applied",
              "balance_updates":
                [ { "kind": "contract",
                    "contract": "tz1VmefgyE1YPcAa8VurxihsUjXzLUX6HY8Z",
                    "change": "-10000000" },
                  { "kind": "contract",
                    "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                    "change": "10000000" },
                  { "kind": "contract",
                    "contract": "tz1VmefgyE1YPcAa8VurxihsUjXzLUX6HY8Z",
                    "change": "-257000" } ], "consumed_gas": "10207",
                    "allocated_destination_contract": true } } } ] }
Estimated gas: 10207 units (will add 100 for safety)
Estimated storage: 257 bytes added (will add 20 for safety)
>>>>10: http://localhost:8732/chains/main/blocks/head/hash
<<<<10: 200 OK
"BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43"
>>>>11: http://localhost:8732/chains/main/chain_id
<<<<11: 200 OK
"NetXjD3HPJJmcd"
>>>>12: http://localhost:8732/chains/main/blocks/head/helpers/preapply/operations
[ { "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",
    "branch": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
    "contents":

```

```
[ { "kind": "transaction",
  "source": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z", "fee": "1285",
  "counter": "709692", "gas_limit": "10307",
  "storage_limit": "277", "amount": "10000000",
  "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ" } ],
"signature":
```

```
"edsigtmokkqWQB1LNqXnviPiGfQaBS5uA9LkX8VVuYkGEGAEAbHtrZsTtcbQfYWX557K
yPDtkvmmnoJC83gmsry7o3P5Jety4" } ]
```

<<<<12: 200 OK

```
[ { "contents":
  [ { "kind": "transaction",
    "source": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z", "fee": "1285",
    "counter": "709692", "gas_limit": "10307",
    "storage_limit": "277", "amount": "10000000",
    "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
    "metadata":
      { "balance_updates":
        [ { "kind": "contract",
          "contract": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z",
          "change": "-1285" },
          { "kind": "freezer", "category": "fees",
            "delegate": "tz1Ke2h7sDdakHJQh8WX4Z372du1KChksyU",
            "cycle": 190, "change": "1285" } ],
          "operation_result":
            { "status": "applied",
              "balance_updates":
                [ { "kind": "contract",
                  "contract": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z",
                  "change": "-10000000" },
                  { "kind": "contract",
                    "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                    "change": "10000000" },
                  { "kind": "contract",
                    "contract": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z",
                    "change": "-257000" } ], "consumed_gas": "10207",
                    "allocated_destination_contract": true } } ],
          "signature":
```

```
"edsigtmokkqWQB1LNqXnviPiGfQaBS5uA9LkX8VVuYkGEGAEAbHtrZsTtcbQfYWX557K
yPDtkvmmnoJC83gmsry7o3P5Jety4" } ]
```

>>>>13: http://localhost:8732/injection/operation?chain=main

```
"2de46e02a306b67eb1fd58bb32e400fe98d1104ed154eff023892247ea3549556c006f223345fc2ae16
6d72bb47f02670ddd34dcfb92850abca82bc350950280ade2040000bd860bda9ea104aedff161ec820b
2e24225beed6006af3dc6d47fbc66decca8c15c1a8e6728565c82d70c83f6a7d8f0164cbd2dc6322f40
474e3e118cbbc337964dac0b7463ea03f75ca5cd645657cb2a24cd6a09"
```

<<<<13: 200 OK

```
"ooFscim3B88saBuU3kJvDX3pp89jx8oJhsgoytcMcyFWj3EN7XZ"
```

Operation successfully injected in the node.

Operation hash is 'ooFscim3B88saBuU3kJvDX3pp89jx8oJhsgoytcMcyFWj3EN7XZ'

Waiting for the operation to be included...

>>>>14: http://localhost:8732/monitor/heads/main

<<<<14: 200 OK

```
{ "hash": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
  "level": 391138, "proto": 2,
  "predecessor": "BLYERTTZLSRfUp7TA3LZFDuPf7rcwEqnJPTtsMmJDztbdnssvq5",
  "timestamp": "2020-05-04T07:37:07Z", "validation_pass": 4,
  "operations_hash":
    "LLobAL1PtggJwh9p1iz5JWF5Z623inehB4H8qD1s4ddmpmyMW9L7Y",
  "fitness": [ "01", "000000000005f7e1" ],
  "context": "CoVVoN3BsegsH3r9qE7dy9o3m5v5PsfV1zztUWsA35rvtYQPdFiP",
  "protocol_data":
```

"0000cde7fbbb04a70000000260902ce71e14def243104b611e56ad31203aef90d34b7ad50931ca9676b28917ffb74ce44b2181e1b41a704193d3a0cc1989f01610526d4675b28897918104" }

>>>>15:

http://localhost:8732/chains/main/blocks/BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43/header/shell

<<<<15: 200 OK

```
{ "level": 391138, "proto": 2,
  "predecessor": "BLYERTTZLSRfUp7TA3LZFDuPf7rcwEqnJPTtsMmJDztbdnssvq5",
  "timestamp": "2020-05-04T07:37:07Z", "validation_pass": 4,
  "operations_hash":
    "LLobAL1PtggJwh9p1iz5JWF5Z623inehB4H8qD1s4ddmpmyMW9L7Y",
  "fitness": [ "01", "000000000005f7e1" ],
  "context": "CoVVoN3BsegsH3r9qE7dy9o3m5v5PsfV1zztUWsA35rvtYQPdFiP" }
```

>>>>16:

http://localhost:8732/chains/main/blocks/BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43/header/shell

<<<<16: 200 OK

```
{ "level": 391138, "proto": 2,
  "predecessor": "BLYERTTZLSRfUp7TA3LZFDuPf7rcwEqnJPTtsMmJDztbdnssvq5",
  "timestamp": "2020-05-04T07:37:07Z", "validation_pass": 4,
  "operations_hash":
    "LLobAL1PtggJwh9p1iz5JWF5Z623inehB4H8qD1s4ddmpmyMW9L7Y",
  "fitness": [ "01", "000000000005f7e1" ],
  "context": "CoVVoN3BsegsH3r9qE7dy9o3m5v5PsfV1zztUWsA35rvtYQPdFiP" }
```

>>>>17:

http://localhost:8732/chains/main/blocks/BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43~1/hash

<<<<17: 200 OK

```
"BLYERTTZLSRfUp7TA3LZFDuPf7rcwEqnJPTtsMmJDztbdnssvq5"
```

>>>>18:

http://localhost:8732/chains/main/blocks/BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43/header/shell

<<<<18: 200 OK

```
{ "level": 391138, "proto": 2,
  "predecessor": "BLYERTTZLSRfUp7TA3LZFDuPf7rcwEqnJPTtsMmJDztbdnssvq5",
  "timestamp": "2020-05-04T07:37:07Z", "validation_pass": 4,
  "operations_hash":
    "LLobAL1PtggJwh9p1iz5JWF5Z623inehB4H8qD1s4ddmpmyMW9L7Y",
  "fitness": [ "01", "000000000005f7e1" ],
  "context": "CoVVoN3BsegsH3r9qE7dy9o3m5v5PsfV1zztUWsA35rvtYQPdFiP" }
```

>>>>19:

http://localhost:8732/chains/main/blocks/BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43/operation_hashes

<<<<19: 200 OK

```
[ [ "oov4umngrjDkiMJBENZVLMqcJtVB6rWHBexznmmpJQzumdnWerG6",
    "opFQwuvBJfacE3FNfcghngDs9PSmqiwbKyL9sKMs9ptGU4iPU94",
    "opTAc1b8V5tNLVTsVXtjSKJgBsn214DZrcWEaxnZNccb88fZavj",
    "onmLGyFersCatw8tj7iMJ7EQcEECRpCU62y93UGfPvVsDVGJoid",
    "oneaQrGWNQT9J7LLAJHmHzXRkvw2mxfWTzgtTXk99gFikU1panD",
    "opGWFAUsTxrzy9HCwURFfJS6vuEQUNv1TEy5cm9GDnETiCPH7Ax",
    "opPdfZnCbrmnqikHPs1kGbzbYTixFLbdPM2ZLS2C15NJV8QDZ9m",
    "oobAvQ9Ls1pjLsUUSigJGFVYyoAqDF75jtn3G8SFLEAQEGFFVf48",
    "ooV62aUwcbtQQQCPYkqck2CPAU9RbgpiR1hJrcMyK8mzUWoq82E",
    "opFGatyFDiPeDWeG5REha9H4ZSsyYcQLaUd4M5E87yS9nhpReWR",
    "onsvEH9SyDC2BbBedvvHXhgVbgEZiCqMzz4tyiUUsyuu6dW63LQ",
    "opRD9GsryZQtavEiTay61xgy47Sbq6sN6kPVefQ7GZqwK2XWUSF" ], [], [],
  [ "oo8LDHKS19rsKCEL7BZBByXL66k6Dmvm3m2WvK1TwDR9z1jYpWf",
    "ooesM5w5E4jCzCBcTnS3FuuqksfjJXQeBuF994fYK8r3J2hiRoV" ] ]
```

<<<<14: 200 OK

```
{ "hash": "BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",
  "level": 391139, "proto": 2,
  "predecessor": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
  "timestamp": "2020-05-04T07:37:37Z", "validation_pass": 4,
  "operations_hash":
    "LLOaMgJM6EPBXzDNJpN9w1j9sbRKhaQu23hQwr8SzCx9bCUkQtx4L",
  "fitness": [ "01", "000000000005f7e2" ],
  "context": "CoVsoxKCgbjMYVrBqrWMuF6Xo8zy2HhfCwbGpb1wCXkvt2jhgJ3T",
  "protocol_data":
```

"0000cde7fbbb33cb0100009b3d2b7f751fab0cddd6bdad58207c1eb64045823629886038c8cb4618c2c3b75abbbfb83c2b521fe36c395e8a1b2d1c2631e1c616c120c48b4b5f5e3e7c9370b" }

>>>>20:

http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY/operation_hashes

<<<<20: 200 OK

```
[ [ "oohxh76x7JWj3BQCStYZHwEvnyS4xLYsb9eatDbQUgCNpiFp31g",
    "ooKwypcemN7oWwdmGK6gmPQL8eimFprZwwofEKd1e78spfwQHGY",
    "op2MddW2xDz5Q1adwGKMJwwKJanFMZrQEgRrEqfqYFrVPF3qM2H",
    "opHYK87axEdmK31LsdTpqvZBxGXeo3Cn6XEs3E9p1mSBqf8A7PN",
    "oo3QbV9NkbGzY1ptE2vUyAziefXhGYU1oQ15Q1UgR8fUrkBR8Zt",
    "opTvF2zHNwMQ9QeMFVzJzAccjSVuhq18hwwEriMUpcRhLHzAv6",
    "oneevztusgu3H8ReTU9cwa1rmYb4DArnWr7Bt9J4NvFDcMo7wj",
    "onzdQk8J4tLUL3mU2WRyzmrkqxhcEiWx6JHsqnqi8X3uaX397oV",
    "opSNxQeKzCP8FhdbdSXbsdc6yx2ZJ5MQBxLvNXy1anT9G49A54c",
    "opGcWcW5QTrbrfwxZ19ZbnGsnd4ggASWEb2oeu8zbDVYwGvieie",
    "opJm3xbgqQD55TnsVsoARSJzS75tpZL9pZMritzLgPr9PGumWpM" ], [], [],
  [ "oocueZBhhbjXNLPvp1SomiXF2vebdrfjvueRDRnuieWAQMpbWnN",
    "ooFscim3B88saBuU3kJvDX3pp89jx8oJhsgoytcMcyFWj3EN7XZ" ] ]
```

Operation found in block: BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY (pass: 3, offset: 1)

>>>>21:

http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY/operations/3/1

<<<<21: 200 OK

```
{ "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",
  "chain_id": "NetXjD3HPJJjmc",
  "hash": "ooFscim3B88saBuU3kJvDX3pp89jx8oJhsgoytcMcyFWj3EN7XZ",
  "branch": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
  "contents":
  [ { "kind": "transaction",
    "source": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z", "fee": "1285",
    "counter": "709692", "gas_limit": "10307", "storage_limit": "277",
    "amount": "10000000",
    "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
    "metadata":
    { "balance_updates":
      [ { "kind": "contract",
        "contract": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z",
        "change": "-1285" },
        { "kind": "freezer", "category": "fees",
        "delegate": "tz1RomaiWJV3NFDZWMTMVR2aEeHknsn3iF5Gi",
        "cycle": 190, "change": "1285" } ],
      "operation_result":
      { "status": "applied",
        "balance_updates":
        [ { "kind": "contract",
          "contract": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z",
          "change": "-10000000" },
          { "kind": "contract",
          "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
          "change": "10000000" },
          { "kind": "contract",
          "contract": "tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z",
          "change": "-257000" } ], "consumed_gas": "10207",
        "allocated_destination_contract": true } } ],
    "signature":
```

```
"sigbyrdrnHVu59LnLodaMs5i7HffFpEAhsvkok8kdkHEXFCvLehPxenNqNgN4viRbtkRubyF9QwAqXTL1V7jWzvjyH8hM7Sb" }
```

This sequence of operations was run:

Manager signed operations:

From: tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z

Fee to the baker: ₮0.001285

Expected counter: 709692

Gas limit: 10307

Storage limit: 277 bytes

Balance updates:

tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z -₮0.001285

fees(tz1RomaiWJV3NFDZWMTMVR2aEeHknsn3iF5Gi,190) ... +₮0.001285

Transaction:

Amount: ₮10

From: tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z

To: tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ
This transaction was successfully applied
Consumed gas: 10207
Balance updates:
tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z ... -₮10
tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ ... +₮10
tz1VmefgyE1YPcAa8VurxihsUJXzLUX6HY8Z ... -₮0.257

The operation has only been included 0 blocks ago.

We recommend to wait more.

Use command

tezos-client wait for ooFscim3B88saBuU3kJvDX3pp89jx8oJhsgoytcMcyFWj3EN7XZ to be included --confirmations 30 --branch BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43 and/or an external block explorer.

doanha@proglang-thinkpad:~\$ tezos-client -l transfer 10 from minh to bob3

>>>>0: http://localhost:8732/network/version

<<<<0: 200 OK

```
{ "chain_name": "TEZOS_ALPHANET_CARTHAGE_2019-11-28T13:02:13Z",  
  "distributed_db_version": 0, "p2p_version": 0 }
```

>>>>1: http://localhost:8732/chains/main/blocks/head/protocols

<<<<1: 200 OK

```
{ "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",  
  "next_protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb" }
```

>>>>2:

http://localhost:8732/chains/main/blocks/head/context/contracts/tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb/counter

<<<<2: 200 OK

"709677"

>>>>3:

http://localhost:8732/chains/main/blocks/head/context/contracts/tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb/manager_key

<<<<3: 200 OK

"edpktSxGhUbPH69qAds1zpcMKHLB68CSirLhPMVxnqBvsrH5M9FLG"

>>>>4: http://localhost:8732/monitor/bootstrapped

<<<<4: 200 OK

```
{ "block": "BMc1mqHFQpMGgw3mhPxnbLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",  
  "timestamp": "2020-05-04T07:37:37Z" }
```

Node is bootstrapped, ready for injecting operations.

>>>>5: http://localhost:8732/chains/main/blocks/head/context/constants

<<<<5: 200 OK

```
{ "proof_of_work_nonce_size": 8, "nonce_length": 32,  
  "max_revelations_per_block": 32, "max_operation_data_length": 16384,  
  "max_proposals_per_delegate": 20, "preserved_cycles": 3,  
  "blocks_per_cycle": 2048, "blocks_per_commitment": 32,  
  "blocks_per_roll_snapshot": 256, "blocks_per_voting_period": 2048,  
  "time_between_blocks": [ "30", "40" ], "endorsers_per_block": 32,  
  "hard_gas_limit_per_operation": "1040000",  
  "hard_gas_limit_per_block": "1040000",  
  "proof_of_work_threshold": "70368744177663",
```

```

"tokens_per_roll": "8000000000", "michelson_maximum_type_size": 1000,
"seed_nonce_revelation_tip": "125000", "origination_size": 257,
"block_security_deposit": "512000000",
"endorsement_security_deposit": "640000000",
"baking_reward_per_endorsement": [ "1250000", "187500" ],
"endorsement_reward": [ "1250000", "833333" ], "cost_per_byte": "1000",
"hard_storage_limit_per_operation": "60000",
"test_chain_duration": "43200", "quorum_min": 3000, "quorum_max": 7000,
"min_proposal_quorum": 500, "initial_endorsers": 24,
"delay_per_missing_endorsement": "2" }
>>>>6: http://localhost:8732/chains/main/blocks/head/hash
<<<<6: 200 OK
"BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY"
>>>>7: http://localhost:8732/chains/main/chain_id
<<<<7: 200 OK
"NetXjD3HPJJjmcD"
>>>>8: http://localhost:8732/chains/main/chain_id
<<<<8: 200 OK
"NetXjD3HPJJjmcD"
>>>>9: http://localhost:8732/chains/main/blocks/head/helpers/scripts/run_operation
{ "operation":
  { "branch": "BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",
    "contents":
      [ { "kind": "transaction",
          "source": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb", "fee": "0",
          "counter": "709678", "gas_limit": "1040000",
          "storage_limit": "60000", "amount": "10000000",
          "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ" } ],
    "signature":

"edsigtXomBKt5CTrf5cjATJWSyaRvhfYNHqSUGm4SdbYRcGwQrUGjzEfQDTuqHhuA8b2d8
NarZjz8TRf65WkpQmo423BtomS8Q" },
  "chain_id": "NetXjD3HPJJjmcD" }
<<<<9: 200 OK
{ "contents":
  [ { "kind": "transaction",
      "source": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb", "fee": "0",
      "counter": "709678", "gas_limit": "1040000",
      "storage_limit": "60000", "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
      "metadata":
        { "balance_updates": [],
          "operation_result":
            { "status": "applied",
              "balance_updates":
                [ { "kind": "contract",
                    "contract": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
                    "change": "-10000000" },
                  { "kind": "contract",
                    "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                    "change": "10000000" } ], "consumed_gas": "10207" } } } ] }
Estimated gas: 10207 units (will add 100 for safety)

```


Estimated storage: no bytes added

>>>>10: http://localhost:8732/chains/main/blocks/head/hash

<<<<10: 200 OK

"BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY"

>>>>11: http://localhost:8732/chains/main/chain_id

<<<<11: 200 OK

"NetXjD3HPJJmcd"

>>>>12: http://localhost:8732/chains/main/blocks/head/helpers/preapply/operations

```
[ { "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",
  "branch": "BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",
  "contents":
    [ { "kind": "transaction",
      "source": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb", "fee": "1284",
      "counter": "709678", "gas_limit": "10307", "storage_limit": "0",
      "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ" } ],
  "signature":
```

"edsigu4Sp4wfJSnXvSfte6iajKHLixS2pwJWTRVfFhg364tcJ8pWQLsfzReSgQT3uunXED4eNp1c
FXQAoF8w8UgiyJxsNzEUNnc" }]

<<<<12: 200 OK

```
[ { "contents":
```

```
  [ { "kind": "transaction",
    "source": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb", "fee": "1284",
    "counter": "709678", "gas_limit": "10307", "storage_limit": "0",
    "amount": "10000000",
    "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
    "metadata":
      { "balance_updates":
        [ { "kind": "contract",
          "contract": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
          "change": "-1284" },
          { "kind": "freezer", "category": "fees",
            "delegate": "tz1Ke2h7sDdakHJQh8WX4Z372du1KChksyU",
            "cycle": 190, "change": "1284" } ],
          "operation_result":
            { "status": "applied",
              "balance_updates":
                [ { "kind": "contract",
                  "contract": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
                  "change": "-10000000" },
                  { "kind": "contract",
                    "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                    "change": "10000000" } ], "consumed_gas": "10207" } } ],
    "signature":
```

"edsigu4Sp4wfJSnXvSfte6iajKHLixS2pwJWTRVfFhg364tcJ8pWQLsfzReSgQT3uunXED4eNp1c
FXQAoF8w8UgiyJxsNzEUNnc" }]

>>>>13: http://localhost:8732/injection/operation?chain=main

"f928c37224ffaa98a6b44b9744f567cfa62d3a7bdaffd9c7c158e8b685ed1b946c0083167a0b30a852af
07a1ad42a1d34bdf8b9a4a54840aaea82bc3500080ade2040000bd860bda9ea104aedff161ec820b2e2

4225beed600ea30c713d2fcb4e269233bdf65bf66db75b0ba7e6cec2883f944e239aa2b4090fcde398aa
e5bad32877192a0a253c0be4d7a4af503cc2d7234e2a6a629f71a0e"
<<<<13: 200 OK
"ooUV9aqT3BYSBrLXTLBmmwWZkZWjaVDCCfbL2kQ5MrpiuWpHRLB"
Operation successfully injected in the node.
Operation hash is 'ooUV9aqT3BYSBrLXTLBmmwWZkZWjaVDCCfbL2kQ5MrpiuWpHRLB'
Waiting for the operation to be included...
>>>>14: http://localhost:8732/monitor/heads/main
<<<<14: 200 OK
{ "hash": "BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",
 "level": 391139, "proto": 2,
 "predecessor": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
 "timestamp": "2020-05-04T07:37:37Z", "validation_pass": 4,
 "operations_hash":
 "LLOaMgJM6EPBXzDNJpN9w1j9sbRKhaQu23hQwr8SzCx9bCUkQtx4L",
 "fitness": ["01", "000000000005f7e2"],
 "context": "CoVsoxKCgbjMYVrBqrWMuF6Xo8zy2HhfCwbGpb1wCXkvt2jhgJ3T",
 "protocol_data":

"0000cde7fbbb33cb0100009b3d2b7f751fab0cddd6bdad58207c1eb64045823629886038c8cb4618c
2c3b75abbfb83c2b521fe36c395e8a1b2d1c2631e1c616c120c48b4b5f5e3e7c9370b" }
>>>>15:
http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny
3SLGxhpCCY/header/shell
<<<<15: 200 OK
{ "level": 391139, "proto": 2,
 "predecessor": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
 "timestamp": "2020-05-04T07:37:37Z", "validation_pass": 4,
 "operations_hash":
 "LLOaMgJM6EPBXzDNJpN9w1j9sbRKhaQu23hQwr8SzCx9bCUkQtx4L",
 "fitness": ["01", "000000000005f7e2"],
 "context": "CoVsoxKCgbjMYVrBqrWMuF6Xo8zy2HhfCwbGpb1wCXkvt2jhgJ3T" }
>>>>16:
http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny
3SLGxhpCCY/header/shell
<<<<16: 200 OK
{ "level": 391139, "proto": 2,
 "predecessor": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
 "timestamp": "2020-05-04T07:37:37Z", "validation_pass": 4,
 "operations_hash":
 "LLOaMgJM6EPBXzDNJpN9w1j9sbRKhaQu23hQwr8SzCx9bCUkQtx4L",
 "fitness": ["01", "000000000005f7e2"],
 "context": "CoVsoxKCgbjMYVrBqrWMuF6Xo8zy2HhfCwbGpb1wCXkvt2jhgJ3T" }
>>>>17:
http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny
3SLGxhpCCY~1/hash
<<<<17: 200 OK
"BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43"
>>>>18:
http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny
3SLGxhpCCY/header/shell
<<<<18: 200 OK

```
{ "level": 391139, "proto": 2,
  "predecessor": "BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
  "timestamp": "2020-05-04T07:37:37Z", "validation_pass": 4,
  "operations_hash":
    "LLoAMgJM6EPBXzDNJpN9w1j9sbRKhaQu23hQwr8SzCx9bCUkQtX4L",
  "fitness": [ "01", "000000000005f7e2" ],
  "context": "CoVsoxKCGbjMYVrBqrWMuF6Xo8zy2HhfCwbGpb1wCXkvt2jhgJ3T" }
```

>>>>19:

http://localhost:8732/chains/main/blocks/BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY/operation_hashes

<<<<19: 200 OK

```
[ [ "oohxh76x7JWj3BQCStYZHwEvnyS4xLYsb9eatDbQUgCNpiFp31g",
    "ooKwypcemN7oWwdmGK6gmPQL8eimFprZwwofEKd1e78spfwQHGY",
    "op2MddW2xDz5Q1adwGKMJwwKJanFMZrQEgRrEqfqYFrVPF3qM2H",
    "opHYK87axEdmK31LsdTpqvZBxGXeo3Cn6XEs3E9p1mSBqf8A7PN",
    "oo3QbV9NkbGzY1ptE2vUyAziefXhGYU1oQ15Q1UgR8fUrKBR8Zt",
    "opTvF2zHNNowMQ9QeMFVzJzAccjSVuhq18hwwEriMUpcRhLHzAv6",
    "oneevztusgu3H8ReTU9cwa1rmYb4DArnRWr7Bt9J4NvFDcMo7wj",
    "onzdQk8J4tLUL3mU2WRyzmrkqxhcEiWx6JHsqnqi8X3uaX397oV",
    "opSNxQeKzCP8FhdbdSXbsdc6yx2ZJ5MQBxLvNXy1anT9G49A54c",
    "opGcWcW5QTrbrfwxZ19ZbnGsnd4ggASWEb2oeu8zbDVYwGvieie",
    "opJm3xbgqQD55TnsVsoARSJzS75tpZL9pZMritzLgPr9PGumWpM" ], [], [],
  [ "oocueZBhhbjXNLPvp1SomiXF2vebdrfjvueRDRnuieWAQMpbWnN",
    "ooFscim3B88saBuU3kJvDX3pp89jx8oJhsgoytcMcyFWj3EN7XZ" ] ]
```

<<<<14: 200 OK

```
{ "hash": "BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",
  "level": 391140, "proto": 2,
  "predecessor": "BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",
  "timestamp": "2020-05-04T07:38:07Z", "validation_pass": 4,
  "operations_hash":
    "LLoZrTvZ3NA6ZhwyUvGQU2qhLEuF6jRy9WT8zCp9z7UUfZnb2n59z",
  "fitness": [ "01", "000000000005f7e3" ],
  "context": "CoVNDRC35xsssAxcTfnj9y4h4jbQmzFWSFKjpXAtBQNkAvnRqvzv",
  "protocol_data":
```

```
"0000b1a7b92bbb63020000a636d4e9f951a82f4b43bff307b5bc2f4f8b09e640e22c55457050d8fa32
501eaf74ddd49d01e2f1073ad3f5b315ccf6ee9f3f779899630dfadccc069eac7300" }
```

>>>>20:

http://localhost:8732/chains/main/blocks/BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn/operation_hashes

<<<<20: 200 OK

```
[ [ "onuWQeWAuzqLwFChhWmmehatReVqyJNuyQLtDxwGUiFpMuvdARV",
    "ooeZrBb6Es9u43xNGTCMCRx6W7deM2qsgpuh61rnmfQiLgxGyft",
    "ooFq8rjAWE1CzBaw5SG5zXTPTTP6SEAXPBBwWn8aYiF51qaRgav",
    "ooRKFA8ZRRMdxmj473a9XL38X4neWcyccLbddMMHspGzbTeQuvd",
    "ooLLpkjuvnQZ7MHiuJFMkvbNaZtvw5k89yhtwkmDAYmGA6JjJ4G",
    "ooiMTks8KpAjqTcGLXG9USHhAc5Y518aPTXi1pCxr1b5VcRRAsX",
    "ooN5n4B6y9bjZLDFitzZUCxLqZHQJjbPe9csMRz88u6oeoup433",
    "ooqdqPiHoVYwWiRBj5KiQW7uHsKb5dYaB4xT9HtCFeMBYJdBfpe",
    "ooFVMLfKLrujPs3WtB7MUAMEkFWiRhW5F5fu5PukXHWNM6VnWP6",
    "onyBUqTbGpiWTapE2zCo4BU2zHexeFbzKstv7qCmLkBhCEvjezB",
    "op5K5Y1vyqfzuDre7N2VGxQrAF3fetwPb7JEqMPhCdL6eLx5Bqi",
```

"opR4MJjxbY7tWSaVyQThbiRqe3dnkrS1rwKnc4TPo58rWz61rp",
"onkpyZ2fhTLs9xhPjhMvmq9teU8jWn6QxmA5Ufw5nGQyg9RAdcY"], [], [],
["oo2rtXWtyRapenbitASKnRF557CXJQWbx7j1nWoxTVxHSTc47iu"]]
>>>>21: http://localhost:8732/chains/main/blocks/head/live_blocks
<<<<21: 200 OK

["BKo8zeUMZg5Pqvjnz6z9w5YJa9XoeXkgDuo85Pga7YPm6Nd1LmK",
"BL17BHD8Py5SxEGgDXMWytW2wfb9rzU1cb8o7W1EPL3FfrTxMsF",
"BL21XNUJpZd3rTkh2BsgEuMNwAkewNUDVgmmQUUB9erB6EVyhZb",
"BL4VbLoZX5pznaiqvTNE6UQxgxU7GCCZwnTzUjxSdeamXheZH43",
"BL5h3z8ZLtoyrU5NLyFj3rQvZQ2dVgD5sC8AXF6TWS5xGCd3A7x",
"BL5tuK9cxuxuFfXDjuSHJXZnbmaB68HjNxGfNyzQ3kxQEZv6EWU",
"BL75tc91sSmETU5TPi8nW4JFqxfVr3dyHqKLogepUu9DuGX2Nf",
"BL7WvK1bjDmGkMSyKmgTjgcRBPVyafaR6xwQj5g2jZWw8AJPFwN",
"BL8TW3zMGYnaJKCYiLLnShN3AKCLgGw3JvDxDjNkp746v6qEwaz",
"BL8xSETLTgtE9fJSSmoZtHNs273cBLBa8aVz1vLKcc7TePdBu59",
"BL99h4RVaQoWeUcuC2LrcHWYWorJWc22gGe3xFoYNDCygTKcHqm",
"BLB4rYg5tPmQxpKf4AXyuCQ7FLsCdVLfQwx1z3yFfDC58sJ26Ds",
"BLBmYt4foQb2cJXxJpqVkpVHdFxxT1hVpuUC3TkPteKZtY4CNP",
"BLFcgfentj1VrQS2Rk9TcayqpaV11Kv9UYcR8NAj2VfyFCoTQm",
"BLH8byuSNvopNTRcR4ZCjUSofq8LRcX3P9WCWn7SnnB5Ma5ASYh",
"BLHgtaruUEqsTqcC9niMxrSWXBLZ4GZJyjmLMHDuDMkasDGHfE1",
"BLJodq3qGikMkHUsLpWc3jRCsSU62RaBvumBTWcUqxcK2Pt3fxy",
"BLMGHtATH7dWJtDD9NxpZzHqVXVKouhVVQvWbvZi3Y1w2McrFog",
"BLMk2KW4iDbW2zAFKKcwn7iXGMXCFrXyooonYY1sKVvbGrmVy8r",
"BLQFLee8pAHvm3Vsm2itqREXE7awsaZ2rg9S62baG3kpNiHghQv",
"BLQjNDXgXk4qog9vcy5X7yxo1BYs6igdh991acRkcwZBWo5UBNj",
"BLRCy88TNRqNAY2mSdj3sjcWv6oHkdkUdMwy18b5aAEcJYut2H",
"BLRNN91GExGrnvEVLx3mBfBhwJxYE6zkafTrj7VM3bJXdrZ9oH4",
"BLSBLbSctNcLK5F7gswYkDZyhb7h8eswTmHNeaTcadQLQeyfMF",
"BLW2JG8XApFkLdu8Mb94nb4jsuW4rvkmnX49CFFkr9PA8hWrkVz",
"BLYERTTZLSRfUp7TA3LZFDuPf7rcwEqnJPTtsMmJDztbdnssvq5",
"BLZZZj1nLEGmQHTsWar5Yu1kJxkSNAE13agS3XfURE4hZTehVxz",
"BLaKQqkLTGziVnFaDkPC4LkYxMWUMQRF8eYffGaNSqcTxUqw5G2",
"BLdnXAJzhVp6i2mh2ms12pKYmMqkdiHS62sPo5jdSj3iBb3tRS2",
"BLhayfzbuyAQrR6qDAVTjkMr826CnDf76yJiF6kVHzJcFrjsfuS",
"BLiU3ia2Z2WQvh8qq5r63FU3cwAprEJuauzT2d3h6gNeGYNqji6",
"BLiftEZ7nc6ke2bJdW4ceHhBRQAz3w1EuojFvBD1WihV61XCm6G",
"BLoovcNY95La8XefYQ6wKMjXxoTSEFZRhXjJrsyjbCrwx6Ur2Df",
"BLqqPuziufGDnB3evxoiSitQdSspVBNSfXBnEWBvo5tuJqbzF1C",
"BLt743Lg5nneH4Z8TKkP7ojhVixsPA425QTbZoakNR7XBAcLhNc",
"BLtMTEJTRTotSjykWa5qHHrhcn4n7bWiVdAPFzm3ru3i3orKfHG",
"BLubJEUqf48NYSYh1RR9WiepLHBd1Srvsk3g4j8JkKJ7dviPPmb",
"BLwpQTpnXrvFrXv3RHSTqXm8tz8W8tJB3fDVP1uhdBVFdLdAYLk",
"BLxSQGvcHFveBwAvWFz3k4NMeiKitNe626HhVz5SbRGqEjaUyra",
"BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",
"BM1AeMeJCoDhaa2rBH7W2dYwMVLrHaSNq53GiK9ekQkgDNFQSAZ",
"BM1BzHwYBeobmYD3ULRi2NpE8sGKH2nT51itezMDNw7nFZMvkTU",
"BM2SwiK6bnBxQMUsAGPSzp8GHPvWz8VCeRYwmJP23qHfmuJoi9m",
"BM38q2pGHVwRRrHVq9ZR59LceP63nWkhUHp9pek31VFzjUv4rkb",
"BM4v5Nfz44YP4z8Pa3h8GvubCp2v6uHX3YriF72SS4N1AJdzugY",
"BM6xmbRAae6raVrCxRto1XoPPoBVQ6ibLNgKv4drPa7CF4EkGEE",
"BMAir2LHzqJe7nyV53LXbY5LzwME4nes9ssCRS5FhRZ7uE2JEy2",

"BMEK9nRU1VfMU5vTCWoTrpnypCCvuLqdHRxsbTgzcmBcGRh93wW",
"BMFXeCvsp5rsb7obnhx9BP5CpUJsmYm1LDrbEEFvnPy9fLt6WhC",
"BMGM3C8PhPEZSAqqzkUa3iY71cCvkwLHPh1DHmE1iBc3j5T1Q5S",
"BMJoWfplXhLuV1hBoHwB9dt7CFcNdqU79mzWTKTK9MxEv1xWw1b",
"BMKBTfvqQ1ZAs2oTaTD1q6pV4povcASCS3iyauqzWZTmZk6dQrf",
"BMLCBNvvF7QS2FmiGNtbQtXYJw3ptTU1LRdTLNPqrfxkUyAVuEW",
"BMM8kVBYqaaY2spgbF1ssRctzJVBrk4kqCYigRPF89Mgcx3rBCa",
"BMTzsVDAmHPt85G3a5oT6se2SN1py18UH4TGJoHrtvBsuyRshKc",
"BMVnwsA3WesqYiMfFhtgaftGG6svbQdpNwTXUC8M59MexpjXriR",
"BMbPFruNMHjCC5Xib9vsuHSXWhXKQPqMpZZ2pu41PMMLwbd6WH8",
"BMbazAPRFMTir2sTaMatiBcCyn6Jzsh8MbVmD8pHuUvGTEGc9v5",
"BMc1mqHFQpMGgw3mhPxbnLTLJP9ukagKob9rBp5Ny3SLGxhpCCY",
"BMef2VxFFbQsSoze37CxdMzNWdxZohc5NTw3AUpBoF6R4JKb1aB",
"BMevUpq5NL3tZdmAwEYJ8XozdUuvU1CdURSVTP6og8qZGVNnySt"]

<<<<14: 200 OK

```
{ "hash": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM",  
  "level": 391141, "proto": 2,  
  "predecessor": "BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",  
  "timestamp": "2020-05-04T07:38:37Z", "validation_pass": 4,  
  "operations_hash":  
    "LLob1DAi7FBTKZihx3CPWJj4ZAi2xXfZm5RL6Tp2k97HfZpBfAdMH",  
  "fitness": [ "01", "000000000005f7e4" ],  
  "context": "CoVWzPuzNuUt6xkFPA5TwWhy2Dyo6ygNmay6sgFgoYndhLpYFWJ6",  
  "protocol_data":
```

"0000cde7fbbb839d040000844e4d19f78adfa80b078151aa0031413bdf98da150700c9fee6b1ef64cb
52256cab9dceb227970efa2cc972d8b02f4d0dd35799c701d74961821caa78eaf605" }

>>>>22:

http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM/operation_hashes

<<<<22: 200 OK

```
[ [ "opT5sM9uiZv4pfhRPKJUEjmqiNn1feUdZ7w5iR5maYNyWKngcLn",  
    "oo6VpW6xjF2jhyT2r5zLuaUS2froZVwXkFDcsRs1KmzsC9dLoGZ",  
    "opLA2qGJpcZ8ih23j4x89WdAFDtmUSaxhWVdv1N3HPcniyZ68j5",  
    "op4qXCL9F4GARYK9zqBorpwBNKJ8fiLMiQbKbSsFd3LFLGNKDhK",  
    "op2bPvnDENhRnSPSd9NDu9y5BAKWYYG8x5fmjmbUUs3PzRh2jYV",  
    "oo5oE3ZU8cQzQGTb3pZqR9dJiHtgzrfNatMuDU9oT5m8w5dRMU3",  
    "opAExq2ZgyLHi9auTFwmyruWH1E6BntL6nsic1eF7ED2ZU73tSF",  
    "onhHyyXK1de5Rihkah1PHdKadotcoDroR4dS3s5FJskonfp9NFb",  
    "oouho42SP7mnMUWcCb9CTj1cpSx13b49xQRfFEvVkX7Pg98SWVP",  
    "opLQFkd6tYM2nmJQGHsZnS5PkznkfZsVFniaayxd67DGwzuj75V",  
    "oo5kdFMbSNp7SgMqcVmuydHsRks1oPAJCWhYf8bhmiJUYnGmA2d",  
    "ooN1rBAUfXtoe8ASf36kvvg2S5cySExwLNTnmnBvKoNg86R2Awa",  
    "onfCf7LNBjjsbzRyJ3mrhbwiLbzxg9XBLzBHFfV3e6MPznrNydC" ], [], [],  
  [ "ooRsQb9qJ1ic262G7tXDDjyF8joqwo2rv69AR7y8DuM3VytAVJb",  
    "ooUV9aqT3BYSBrLXtLBmmwWZkZWjaVDCcfbL2kQ5MrpiuWpHRLB" ] ]
```

Operation found in block: BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM
(pass: 3, offset: 1)

>>>>23:

http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM/operations/3/1

<<<<23: 200 OK

```
{ "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",
  "chain_id": "NetXjd3HPJJjmc",
  "hash": "ooUV9aqT3BYSBrLXTLBmmwWZkZWjaVDCcfbL2kQ5MrpiuWpHRLB",
  "branch": "BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY",
  "contents":
    [ { "kind": "transaction",
      "source": "tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb", "fee": "1284",
      "counter": "709678", "gas_limit": "10307", "storage_limit": "0",
      "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
      "metadata":
        { "balance_updates":
          [ { "kind": "contract",
            "contract": "tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb",
            "change": "-1284" },
            { "kind": "freezer", "category": "fees",
              "delegate": "tz1aWXP237BLwNHJcCD4b3DutCevhqq2T1Z9",
              "cycle": 190, "change": "1284" } ],
          "operation_result":
            { "status": "applied",
              "balance_updates":
                [ { "kind": "contract",
                  "contract": "tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb",
                  "change": "-10000000" },
                  { "kind": "contract",
                    "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                    "change": "10000000" } ], "consumed_gas": "10207" } } ] ],
  "signature":
```

```
"sigtdLwtSQArLtPUuLxgjYMz4DBbwtxfds3oVvyL374YbLpzZoqykuLbCmMrS7pKLsmXAktVp
tgnD2WltvpYP17uoH48iBxF" }
```

This sequence of operations was run:

Manager signed operations:

From: tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb

Fee to the baker: ₮0.001284

Expected counter: 709678

Gas limit: 10307

Storage limit: 0 bytes

Balance updates:

tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb -₮0.001284

fees(tz1aWXP237BLwNHJcCD4b3DutCevhqq2T1Z9,190) ... +₮0.001284

Transaction:

Amount: ₮10

From: tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb

To: tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ

This transaction was successfully applied

Consumed gas: 10207

Balance updates:

tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb ... -₮10

tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ ... +₮10

The operation has only been included 0 blocks ago.

We recommend to wait more.

Use command

tezos-client wait for ooUV9aqT3BYSBrLXTLBmmwWZkZWjaVDCCfbL2kQ5MrpiuWpHRLB
to be included --confirmations 30 --branch
BMc1mqHFQpMGgw3mhPxbnLtLJP9ukagKob9rBp5Ny3SLGxhpCCY
and/or an external block explorer.

doanha@proglang-thinkpad:~\$ tezos-client -l transfer 10 from minh to bob3 --fee 0.5

>>>>0: http://localhost:8732/network/version

<<<<0: 200 OK

```
{ "chain_name": "TEZOS_ALPHANET_CARTHAGE_2019-11-28T13:02:13Z",  
  "distributed_db_version": 0, "p2p_version": 0 }
```

>>>>1: http://localhost:8732/chains/main/blocks/head/protocols

<<<<1: 200 OK

```
{ "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",  
  "next_protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb" }
```

>>>>2:

http://localhost:8732/chains/main/blocks/head/context/contracts/tz1XbA8xcxkPAkB7CwyNq4fnbQ
dCXunKXHsb/counter

<<<<2: 200 OK

"709678"

>>>>3:

http://localhost:8732/chains/main/blocks/head/context/contracts/tz1XbA8xcxkPAkB7CwyNq4fnbQ
dCXunKXHsb/manager_key

<<<<3: 200 OK

"edpkttsXGhUbPH69qAds1zpcMKHLB68CSirLhPMVxnqBvsrH5M9FLG"

>>>>4: http://localhost:8732/monitor/bootstrapped

<<<<4: 200 OK

```
{ "block": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJptpA79LG9FM",  
  "timestamp": "2020-05-04T07:38:37Z" }
```

Node is bootstrapped, ready for injecting operations.

>>>>5: http://localhost:8732/chains/main/blocks/head/context/constants

<<<<5: 200 OK

```
{ "proof_of_work_nonce_size": 8, "nonce_length": 32,  
  "max_revelations_per_block": 32, "max_operation_data_length": 16384,  
  "max_proposals_per_delegate": 20, "preserved_cycles": 3,  
  "blocks_per_cycle": 2048, "blocks_per_commitment": 32,  
  "blocks_per_roll_snapshot": 256, "blocks_per_voting_period": 2048,  
  "time_between_blocks": [ "30", "40" ], "endorsers_per_block": 32,  
  "hard_gas_limit_per_operation": "1040000",  
  "hard_gas_limit_per_block": "1040000",  
  "proof_of_work_threshold": "70368744177663",  
  "tokens_per_roll": "8000000000", "michelson_maximum_type_size": 1000,  
  "seed_nonce_revelation_tip": "125000", "origination_size": 257,  
  "block_security_deposit": "512000000",  
  "endorsement_security_deposit": "64000000",  
  "baking_reward_per_endorsement": [ "1250000", "187500" ],  
  "endorsement_reward": [ "1250000", "833333" ], "cost_per_byte": "1000",  
  "hard_storage_limit_per_operation": "60000",  
  "test_chain_duration": "43200", "quorum_min": 3000, "quorum_max": 7000,  
  "min_proposal_quorum": 500, "initial_endorsers": 24,
```

```

    "delay_per_missing_endorsement": "2" }
>>>>6: http://localhost:8732/chains/main/blocks/head/hash
<<<<6: 200 OK
    "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM"
>>>>7: http://localhost:8732/chains/main/chain_id
<<<<7: 200 OK
    "NetXjD3HPJJmcd"
>>>>8: http://localhost:8732/chains/main/chain_id
<<<<8: 200 OK
    "NetXjD3HPJJmcd"
>>>>9: http://localhost:8732/chains/main/blocks/head/helpers/scripts/run_operation
{ "operation":
  { "branch": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM",
    "contents":
      [ { "kind": "transaction",
          "source": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb",
          "fee": "500000", "counter": "709679", "gas_limit": "1040000",
          "storage_limit": "60000", "amount": "10000000",
          "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ" } ],
    "signature":

"edsigtXomBK5CTrf5cjATJWSyaRvhfYNHqSUGrn4SdbYRcGwQrUGjzEfQDTuqHhuA8b2d8
NarZjz8TRf65WkpQmo423BtomS8Q" },
  "chain_id": "NetXjD3HPJJmcd" }
<<<<9: 200 OK
{ "contents":
  [ { "kind": "transaction",
      "source": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb", "fee": "500000",
      "counter": "709679", "gas_limit": "1040000",
      "storage_limit": "60000", "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
      "metadata":
        { "balance_updates":
          [ { "kind": "contract",
              "contract": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb",
              "change": "-500000" },
            { "kind": "freezer", "category": "fees",
              "delegate": "tz1Ke2h7sDdakHJQh8WX4Z372du1KChsksyU",
              "cycle": 190, "change": "500000" } ],
          "operation_result":
            { "status": "applied",
              "balance_updates":
                [ { "kind": "contract",
                    "contract": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb",
                    "change": "-10000000" },
                  { "kind": "contract",
                    "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                    "change": "10000000" } ], "consumed_gas": "10207" } } ] } ] }
Estimated gas: 10207 units (will add 100 for safety)
Estimated storage: no bytes added
>>>>10: http://localhost:8732/chains/main/blocks/head/hash
<<<<10: 200 OK

```



```

"BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM"
>>>>11: http://localhost:8732/chains/main/chain_id
<<<<11: 200 OK
"NetXjD3HPJJjmcD"
>>>>12: http://localhost:8732/chains/main/blocks/head/helpers/preapply/operations
[ { "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",
  "branch": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM",
  "contents":
    [ { "kind": "transaction",
      "source": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
      "fee": "500000", "counter": "709679", "gas_limit": "10307",
      "storage_limit": "0", "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ" } ],
  "signature":

"edsigtsY1MUyXmBJrjKzBDpj2nY2J59vauA3Pe9tFck8iTHgRq935xoANzsb49ryTH2rk4W54df
MfeEoGFnJGNQfq6GRNAoswqE" } ]
<<<<12: 200 OK
[ { "contents":
  [ { "kind": "transaction",
    "source": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
    "fee": "500000", "counter": "709679", "gas_limit": "10307",
    "storage_limit": "0", "amount": "10000000",
    "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
    "metadata":
      { "balance_updates":
        [ { "kind": "contract",
          "contract": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
          "change": "-500000" },
        { "kind": "freezer", "category": "fees",
          "delegate": "tz1Ke2h7sDdakHJQh8WX4Z372du1KChksyU",
          "cycle": 190, "change": "500000" } ],
        "operation_result":
          { "status": "applied",
            "balance_updates":
              [ { "kind": "contract",
                "contract": "tz1XbA8xcxkPAkB7CwyNq4fNbQdCXunKXHsb",
                "change": "-10000000" },
                { "kind": "contract",
                  "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
                  "change": "10000000" } ], "consumed_gas": "10207" } } ],
    "signature":

"edsigtsY1MUyXmBJrjKzBDpj2nY2J59vauA3Pe9tFck8iTHgRq935xoANzsb49ryTH2rk4W54df
MfeEoGFnJGNQfq6GRNAoswqE" } ]
>>>>13: http://localhost:8732/injection/operation?chain=main

"8102faec2099db663b97224fc915650d11f73e42cda96581500082fbfaad537c6c0083167a0b30a852
af07a1ad42a1d34bdf8b9a4a54a0c21eafa82bc3500080ade2040000bd860bda9ea104aedff161ec820b
2e24225beed60096cba9599f74c032b49ca8b0c9413a8252e3134efa6d98298352ff54a67bf2ec62615
1b8559f26e2f3adee5dcfaaf433cc8925bd6a15bd0f42106964b8ec720c"
<<<<13: 200 OK

```

```

"oo4NVnMcrr3wPzco3HL5k4xGnF5D42PQ2oeuReminBR5XZg7Jvy"
Operation successfully injected in the node.
Operation hash is 'oo4NVnMcrr3wPzco3HL5k4xGnF5D42PQ2oeuReminBR5XZg7Jvy'
Waiting for the operation to be included...
>>>>14: http://localhost:8732/monitor/heads/main
<<<<14: 200 OK
{ "hash": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJptpA79LG9FM",
  "level": 391141, "proto": 2,
  "predecessor": "BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",
  "timestamp": "2020-05-04T07:38:37Z", "validation_pass": 4,
  "operations_hash":
    "LLob1DAi7FBTKZihx3CPWJj4ZAI2xXfZm5RL6Tp2k97HfZpBfAdMH",
  "fitness": [ "01", "000000000005f7e4" ],
  "context": "CoVWzPuzNuUt6xkFPA5TwWhy2Dyo6ygNmay6sgFgoYndhLpYFWJ6",
  "protocol_data":

"0000cde7fbbb839d040000844e4d19f78adfa80b078151aa0031413bdf98da150700c9fee6b1ef64cb
52256cab9dceb227970efa2cc972d8b02f4d0dd35799c701d74961821caa78eaf605" }
>>>>15:
http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJpt
pA79LG9FM/header/shell
<<<<15: 200 OK
{ "level": 391141, "proto": 2,
  "predecessor": "BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",
  "timestamp": "2020-05-04T07:38:37Z", "validation_pass": 4,
  "operations_hash":
    "LLob1DAi7FBTKZihx3CPWJj4ZAI2xXfZm5RL6Tp2k97HfZpBfAdMH",
  "fitness": [ "01", "000000000005f7e4" ],
  "context": "CoVWzPuzNuUt6xkFPA5TwWhy2Dyo6ygNmay6sgFgoYndhLpYFWJ6" }
>>>>16:
http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJpt
pA79LG9FM/header/shell
<<<<16: 200 OK
{ "level": 391141, "proto": 2,
  "predecessor": "BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",
  "timestamp": "2020-05-04T07:38:37Z", "validation_pass": 4,
  "operations_hash":
    "LLob1DAi7FBTKZihx3CPWJj4ZAI2xXfZm5RL6Tp2k97HfZpBfAdMH",
  "fitness": [ "01", "000000000005f7e4" ],
  "context": "CoVWzPuzNuUt6xkFPA5TwWhy2Dyo6ygNmay6sgFgoYndhLpYFWJ6" }
>>>>17:
http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJpt
pA79LG9FM~1/hash
<<<<17: 200 OK
"BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn"
>>>>18:
http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJpt
pA79LG9FM/header/shell
<<<<18: 200 OK
{ "level": 391141, "proto": 2,
  "predecessor": "BLzNcJ3CLYWJM6mVZsV5uxgz8zU8w8mtUSdMFTH8DY4h7uaSCdn",
  "timestamp": "2020-05-04T07:38:37Z", "validation_pass": 4,

```

```

"operations_hash":
  "LLob1DAi7FBTKZihx3CPWJj4ZAi2xXfZm5RL6Tp2k97HfZpBfAdMH",
"fitness": [ "01", "000000000005f7e4" ],
"context": "CoVWzPuzNuUt6xkFPA5TwWhy2Dyo6ygNmay6sgFgoYndhLpYFWJ6" }
>>>>19:
http://localhost:8732/chains/main/blocks/BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJpt
pA79LG9FM/operation_hashes
<<<<19: 200 OK
[ [ "opT5sM9uiZv4pfhRPKJUEjmqiNn1feUdZ7w5iR5maYNyWKngcLn",
  "oo6VpW6xjF2jhyT2r5zLuaUS2froZVwXkFDcsRs1KmzsC9dLoGZ",
  "opLA2qGJpcZ8ih23j4x89WdAFDtmUSaxhWVdv1N3HPcniyZ68j5",
  "op4qXCL9F4GAryK9zqBorpwBNKJ8fiLMiQbKbSsFd3LFLGNKDhK",
  "op2bPvnDENhRnSPSd9NDu9y5BAKWYYG8x5fmjmbUUs3PzRh2jYV",
  "oo5oE3ZU8cQzQGtb3pZqR9dJiHtgzrfNatMuDU9oT5m8w5dRMU3",
  "opAExq2ZgyLHi9auTFwmyruWH1E6BntL6nsic1eF7ED2ZU73tSF",
  "onhHyuXK1de5Rihkah1PHdKadotcoDroR4dS3s5FJskonfp9NFb",
  "oouho42SP7mnMUWcCb9CTj1cpSx13b49xQRfFEvVkX7Pg98SWVP",
  "opLQFkd6tYM2nmJQGHsZnS5PkznkfZsVFniaayxd67DGwzuj75V",
  "oo5kdFMbSNp7SgMqcVmuydHsRks1oPAJCWhYf8bhmiJUYnGmA2d",
  "ooN1rBAUFxtoe8ASf36kvvg2S5cySExwLNTnmnBvKoNg86R2Awa",
  "onfCf7LNBjjsbzRyJ3mrhbwiLbzxg9XBLzBHFfV3e6MPznrNydC" ], [], [],
[ "ooRsQb9qJ1ic262G7tXDDjyF8joqwo2rv69AR7y8DuM3VytAVJb",
  "ooUV9aqT3BYSBrLXTLBmmwWZkZWjaVDCCfbL2kQ5MrpiuWpHRLB" ] ]
<<<<14: 200 OK
{ "hash": "BM4kY9PgTSxwnohj9xPB4wtaGB9AHzg6Nff7NeN3uZUwHiSNR92",
  "level": 391142, "proto": 2,
  "predecessor": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJptpA79LG9FM",
  "timestamp": "2020-05-04T07:39:07Z", "validation_pass": 4,
  "operations_hash":
    "LLOzuY5eaHAAMM9EKN4XRJu5G89XZuJNAugMhV2a5Gc4WBj7F52rE",
  "fitness": [ "01", "000000000005f7e5" ],
  "context": "CoVqLXSTapsoFemzxPqPTdJKz7XXi2Hh2HXscV3uHTwGCLccZa5g",
  "protocol_data":

"0000756e6b6f5928010000fa2ba9f103246a9ad3bbfec827c0948709133f3a489d2ef4d2e0e224cc201
8ab25da8c9cb94e6ee668ea160100b366f792983730cbd8babe012bf04c85f98f03" }
>>>>20:
http://localhost:8732/chains/main/blocks/BM4kY9PgTSxwnohj9xPB4wtaGB9AHzg6Nff7NeN3uZ
UwHiSNR92/operation_hashes
<<<<20: 200 OK
[ [ "oosiubgvNkY8NEjqirK74WhzRmp5HT6Z4GKqiNFPxDvA6EDZArm",
  "ooxtxLyVzEHrR27f3QN2EAcD3f5D6L9f6eifHHvsTXRdVbRxxgaW",
  "oowjvsr3eKZPp8P55ugi9aE9bKZfCGgq6mZGHQPdQw3Fi3NvXW4",
  "op6V4Tgk1TaNSSk7nvkXU2bMia7LGzvAWw3hpog8cGGsqZ2MhNi",
  "oobfKyZnT2HyCBeDsePbvoWP4diwrqaxJfYaB3naXfQQRPTU8UE",
  "oo6L26EyNcfAu8QCfVq3wmw7APJfBC5Kmf4j4sN4sJEjhbGgFCQ",
  "op5FqX5kN3fTW7qN6WCVqk943NE7iMZXhdCXpCsmJazsfrkmZW2",
  "oob75e1JxzYsw8bM5s7WjYy5GVhPRPKkVdsJhg9dBFMVDyyxKV4",
  "oni9Hu5xbsMqPVTaKqse9RFKSr1xRPNpawuW89WMwCcENFkpm3r",
  "oo5hTbr4XWchccKZMr7NFiMdDH9pgesq3reqLmgpCvximS8i8R9",
  "op6HPmSh3am67RBDXUE7thAQxmASZmCLpq5sXnGMMJqUn2gJJcn",
  "ooinfPP9vYNiMpRGzhKaFWCt8XUfSiDYbrTFQSYHoNHxyVaDgS6" ], [], [],

```

```
[ "ooCv3sXVKwPguFQbH2eaU7QB5uJvQmWm6J3XcfTKjavk9aDTfjy",
  "opUYnd6RG5JkgBZoNdZCz1VmbKBnYDg6YLHMMD3aKoNHAf1Lagd",
  "oo4NVnMcrr3wPzco3HL5k4xGnF5D42PQ2oeuReminBR5XZg7Jvy" ] ]
```

Operation found in block: BM4kY9PgTSxwnohj9xPB4wtaGB9AHzg6Nff7NeN3uZUwHiSNR92
(pass: 3, offset: 2)

>>>>21:

http://localhost:8732/chains/main/blocks/BM4kY9PgTSxwnohj9xPB4wtaGB9AHzg6Nff7NeN3uZUwHiSNR92/operations/3/2

<<<<21: 200 OK

```
{ "protocol": "PsCARTHAGazKbHtnKfLzQg3kms52kSRpgnDY982a9oYsSXRLQEb",
  "chain_id": "NetXjD3HPJJmcd",
  "hash": "oo4NVnMcrr3wPzco3HL5k4xGnF5D42PQ2oeuReminBR5XZg7Jvy",
  "branch": "BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqEXqw2NJtpA79LG9FM",
  "contents":
  [ { "kind": "transaction",
      "source": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb", "fee": "500000",
      "counter": "709679", "gas_limit": "10307", "storage_limit": "0",
      "amount": "10000000",
      "destination": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
      "metadata":
      { "balance_updates":
        [ { "kind": "contract",
            "contract": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb",
            "change": "-500000" },
          { "kind": "freezer", "category": "fees",
            "delegate": "tz1hoJ3GvL8Wo9NerKFnLQivf9SSngDyhhrG",
            "cycle": 190, "change": "500000" } ],
        "operation_result":
        { "status": "applied",
          "balance_updates":
          [ { "kind": "contract",
              "contract": "tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb",
              "change": "-10000000" },
            { "kind": "contract",
              "contract": "tz1cv8z5LoHew5nfMGv4uXW1BUrzX36yT8GZ",
              "change": "10000000" } ], "consumed_gas": "10207" } } ] ],
  "signature":
```

"sighiYERkdVF7pg8zt5nsqqEjnJKqevXAoGU8WtQ8jSwfUXK6VTuFHupM97GMfBZgPcxbSi9aJocqVWzG4iGKruDMGGNCgcb" }

This sequence of operations was run:

Manager signed operations:

From: tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb

Fee to the baker: ₮0.5

Expected counter: 709679

Gas limit: 10307

Storage limit: 0 bytes

Balance updates:

tz1XbA8xcxkPAkB7CwyNq4fnbQdCXunKXHsb -₮0.5

fees(tz1hoJ3GvL8Wo9NerKFnLQivf9SSngDyhhrG,190) ... +₮0.5

Transaction:

Amount: ₮10

From: tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb

To: tz1cv8z5LoHew5nfMGv4uXW1BUrZX36yT8GZ

This transaction was successfully applied

Consumed gas: 10207

Balance updates:

tz1XbA8xcckPAkB7CwyNq4fNbQdCXunKXHsb ... -₮10

tz1cv8z5LoHew5nfMGv4uXW1BUrZX36yT8GZ ... +₮10

The operation has only been included 0 blocks ago.

We recommend to wait more.

Use command

tezos-client wait for oo4NVnMcrr3wPzco3HL5k4xGnF5D42PQ2oeuReminBR5XZg7Jvy to be included --confirmations 30 --branch

BLh6mK9f4VNVpgukQzDgu3boVYrpU7ppqeXqw2NJtpA79LG9FM

and/or an external block explorer.

doanha@proglang-thinkpad:~\$