

Launch Blockchains

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Defining a PBaaS-blockchain

Information here is not complete. Need help setting up a blockchain launch? 😞

Go to the Verus Discord #pbaas-development channel. The community is happy to assist! 📧

There are many options to choose from when defining your blockchain. Combine them in the `options` parameter for different use cases.

#	Options	Details
1	OPTION_FRACTIONAL	Allows reserve conversion using base calculations when set
2	OPTION_ID_ISSUANCE	Clear is permissionless, if set, IDs may only be created by controlling ID
4	OPTION_ID_STAKING	All IDs on chain stake equally, rather than value-based staking
8	OPTION_ID_REFERRALS	If set, this chain supports referrals
16	OPTION_ID_REFERRALREQUIRED	If set, this chain requires referrals
32	OPTION_TOKEN	If set, this is a token, not a native currency
64	OPTION_SINGLECURRENCY	For PBaaS chains or gateways to potentially restrict to single currency
128	OPTION_GATEWAY	If set, this routes external currencies
256	OPTION_PBAAS	This is a PBaaS chain definition
512	OPTION_GATEWAY_CONVERTER	This means that for a specific PBaaS gateway, this is the default converter and will publish prices
1024	OPTION_GATEWAY_NAMECONTROLLER	When not set on a gateway, top level ID and currency registration happen on launch chain

#	Options	Details
2048	OPTION_NFT_TOKEN	Single satoshi NFT token, tokenizes control over the root ID

VerusID Namespace

To create a blockchain of a specific name, you need a VerusID of the same name. The controller of this VerusID is the only one who can create a blockchain of that name, and they can only do so once.

Examples of blockchain launches

Limit for all currency supplies (10 billion)

10 billion (-1 SATOSHI) with 8 decimal places (9999999999.99999999) is now the recommended absolute limit for all currency supplies, including over time with conversions and extended tail emissions for blockchains.

Blockchain 1

```
./verus -chain=VRSCTEST definecurrency '{
  "name": "PBaaSChain",
  "options": 264,
  "currencies": ["VRSCTEST"],
  "conversions": [1],
  "eras": [
    {
      "reward": 1200000000,
      "decay": 0,
      "halving": 0,
      "eraend": 0
    }
  ],
  "notaries": [
    "Notary1@",
    "Notary2@",
    "Notary3@"
  ],
  "minnotariesconfirm": 2,
  "nodes": [
    {
      "networkaddress": "111.111.111.111:10000",
      "nodeidentity": "Node1@"
    },
    {
      "networkaddress": "111.111.111.112:10000",
      "nodeidentity": "Node2@"
    }
  ],
  "gatewayconvertername": "Bridge",
  "gatewayconverterissuance": 1000000
}
```

```

}'
'{'
  "currencies":["VRSCTEST","PBaaSChain","USD"],
  "initialcontributions":[371747.20398827,0,1000000],
  "initialsupply":3000000
}'

```

Blockchain 2

```

./verus -chain=vrsctest definecurrency '{
  "name":"v2",
  "options":264,
  "currencies":["vrsctest"],
  "preallocations":[
    {
      "allnotary1@":800000
    }
  ],
  "conversions":[1],
  "eras":[
    {
      "reward":76800000000,
      "decay":0,
      "halving":52500,
      "eraend":0
    }
  ],
  "blocktime":10,
  "idregistrationfees":25,
  "notaries":[
    "allnotary1@",
    "allnotary2@",
    "allnotary3@"
  ],
  "startblock":9500,
  "minnotariesconfirm":2,
  "nodes":[
    {
      "networkaddress":"45.76.168.133:20022",
      "nodeidentity": "allnotary1@"
    },
    {
      "networkaddress":"149.28.95.28:20022",
      "nodeidentity":"allnotary2@"
    },
    {
      "networkaddress":"45.63.58.171:20022",
      "nodeidentity":"allnotary3@"
    }
  ],
  "gatewayconvertername":"Bridge",
  "gatewayconverterissuance":800000
}'
'{'
  "currencies":["VRSCTEST","v2"],
  "initialcontributions":[2500,0],
  "initialsupply":800000
}'

```

json

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