

## Join a Network

Follow this guide to join an existing network through statesync To quickly stand up a fresh full node and join in the network, it's recommended to sync through state sync. If you want to run a local instance of Sei, see [Running a Local Node](#)

## Install Seid Binary

To stand up a sei node, the first step is to download and install seid on your machine. If you have not done so, follow the steps in [Install Seid](#).

## State Sync

State sync allows a new node to join a network by fetching a snapshot of the application state at a recent height instead of fetching and replaying all historical blocks. This can reduce the time needed to sync with the network from days to minutes.

## Clean Up

If you are not starting a node from fresh, then you need to do some backups and clean ups.

Assuming your sei home directory is /root/.sei , backuppriv\_validator\_state.json

```
cp
```

```
/root/.sei/data/priv_validator_state.json
```

```
/root/priv_validator_state.json backuppriv_validator_key.json
```

```
cp
```

```
/root/.sei/config/priv_validator_key.json
```

```
/root/priv_validator_key.json backupgenesis.json
```

```
cp
```

```
/root/.sei/config/genesis.json
```

```
/root/genesis.json rm
```

```
-rf
```

```
/root/.sei/data/* rm
```

```
-rf
```

```
/root/.sei/wasm rm
```

```
-rf
```

```
/root/.sei/config/priv_validator_key.json rm
```

```
-rf
```

```
/root/.sei/config/genesis.json Note:
```

This

step

is

not

needed

for

fresh

nodes.

## Update Configurations

Set up rpc servers for primary and secondary endpoints. You can use one of the RPC endpoints from the [RPC providers](#) page. Set up trust height and trust hash. Each snapshot is created at a certain block height, and best practice here is to set the trust height to be earlier than the latest snapshot block height to avoid backward verifications.

**Example: set trust height and hash to be the block height 10,000 earlier**

## PRIMARY\_ENDPOINT

`https://sei-testnet-rpc.polkachu.com:443 TRUST_HEIGHT_DELTA = 10000`

## LATEST\_HEIGHT

```
( curl
-s "PRIMARY_ENDPOINT" /block
|
jq
-r ".block.header.height") if [[ "LATEST_HEIGHT"
-gt
"TRUST_HEIGHT_DELTA" ]]; then SYNC_BLOCK_HEIGHT = ((LATEST_HEIGHT - TRUST_HEIGHT_DELTA)) else
SYNC_BLOCK_HEIGHT = LATEST_HEIGHT fi
```

## Get trust hash

## SYNC\_BLOCK\_HASH

```
( curl
-s "PRIMARY_ENDPOINT/block?height=SYNC_BLOCK_HEIGHT" |
jq
-r ".block_id.hash")
```

## Override configs

```
sed
-i.bak
-e
"s|^trust-height =.|trust-height = SYNC_BLOCK_HEIGHT|"
~/sei/config/config.toml sed
-i.bak
-e
"s|^trust-hash =.|trust-hash = \"SYNC_BLOCK_HASH\""
~/sei/config/config.toml Set
up
persistent
```

peers.

If

you

need

additional

bootstrap-peer

or

persistent-peer (used for

known

good

peers ) in

~ /.sei/config/config.toml. See Configure General Settings for more info about each peer field.

## Example: Get the peers from polkachu rpc server

### PRIMARY\_ENDPOINT

```
https://sei-testnet-rpc.polkachu.com:443 SELF = ( cat
```

```
/root/.sei/config/node_key.json
```

```
| jq
```

```
-r
```

```
.id )
```

```
curl
```

```
"PRIMARY_ENDPOINT" /net_info
```

```
| jq
```

```
-r
```

```
'.peers[] | .url'
```

```
| sed
```

```
-e
```

```
's#mconn://##' | grep
```

```
-v
```

```
"SELF"
```

```
PEERS
```

### PERSISTENT\_PEERS

```
( paste
```

```
-s
```

```
-d ',' PEERS ) sed
```

```
-i.bak
```

-e

```
"s|^persistent-peers =.|persistent-peers = \"PERSISTENT_PEERS\"|"
```

~/sei/config/config.toml Enable

state

sync

and

disable

db

sync.

Note,

you

can

only

enable

either

state

sync

or

db

sync

at

a

time.

## Enable state sync

sed

-i.bak

-e

```
"s|^enable =.|enable = true|"
```

~/sei/config/config.toml sed

-i.bak

-e

```
"s|^db-sync-enable =.|db-sync-enable = false|"
```

~/sei/config/config.toml Restore

Backups Once

you

finished

the  
above  
steps,  
if  
you  
previously  
have  
done  
the  
clean  
up  
step,  
we  
need  
to  
restore  
the  
previously  
backed  
up  
files.

## Restore previously backed up files

```
cp  
/root/priv_validator_state.json  
/root/.sei/data/priv_validator_state.json cp  
/root/priv_validator_key.json  
/root/.sei/config/priv_validator_key.json cp  
/root/genesis.json  
/root/.sei/config/genesis.json Last updated on May 25, 2024 Configure General Settings Running Seid
```