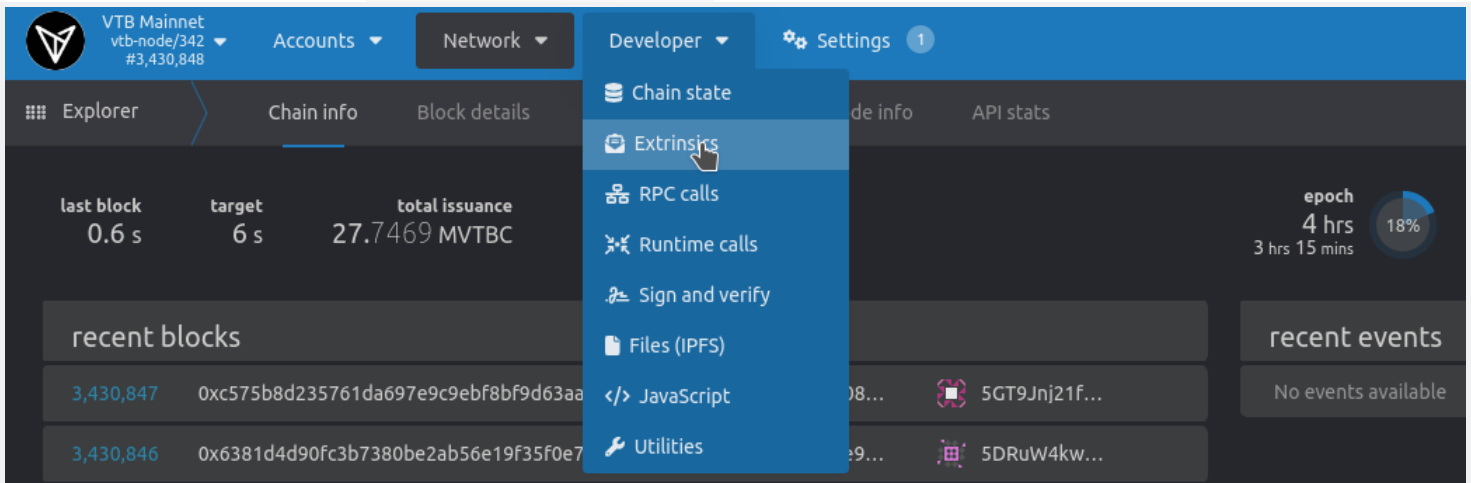


Using nomination pools from the PolkadotJS UI

Nomination pools is a way for people to collectively express their support for one or more validators. The pool nominator is responsible for selecting suitable validators to nominate. All stake of pool members goes to support the same set of validators selected by the pool nominator.

Creating a pool

Go to [this](#) like and go to **Developer ▾ Extrinsic** section.



Select your account in **using the selected account** field. In **submit the following extrinsic** field select **vtbcNominationPools** from the left drop down and select **create(amount, root, nominator, bouncer)** from the right menu.

The extrinsic requires the following inputs:

- **amount** - The amount of tokens to bond in the nomination pool. This must be at least 10 VTBC.
- **root** - An account that can change the nominator, bouncer, or itself. Further, it can perform any of the actions the nominator or bouncer can.
- **nominator** - An account that can select the validators that the pool nominates.
- **bouncer** - An account that can change the pool's state and kick (permissionlessly unbond/withdraw) members if the pool is blocked.

Select/input the desired values and sign the transaction by clicking **Submit Transaction** .

Nominating validators on behalf of the pool

An account that has the role of **Nominator** or **Root** can nominate on behalf of the pool.

Go back to the extrinsics section and select **vtbcNominationPools ▾ nominate(poolId, validators)** extrinsic.

using the selected account free balance 1,001.4425 vTBC
VTB MAINNET (EXTENSION) 5CfRreyrNU... ▾

submit the following extrinsic
vtbcNominationPools ▾ nominate(poolId, validators) See [Pallet::nominate']. ▾

poolId: u32 (PoolId)
0

validators: Vec<AccountId32> (Vec<AccountId>)

+ Add item - Remove item

0: AccountId32: AccountId32
V1 STASH (EXTENSION) 5FNCTJVDx... ▾

encoded call data
0x0b080000000004920c238572e2b31c2efd19dad1a5674c818838
8d9a30d0d01847759a5dc64069

encoded call hash
0x304377ebd361d4597e0177c1aca311734987f3df1920772fbd30
3ecb8c9a495e

encoding details

callindex 0b08

poolid 00000000

validators 04
920c238572e2b31c2efd19dad1a5674c8188388d9a30d0d01847759a
5dc64069

link [#/extrinsics/decode/0x0b080000000004920c23857...](#)

Submit Unsigned Submit Transaction

The extrinsic requires the following inputs:

- **poolId** - The pool to nominate for,
 - **validators** - The validators to nominate. Upto 16 validators can be selected to nominate.
- Add Item** and **Remove Item** buttons can be used to add or remove validators.

Enter the values and click **Submit Transaction** to sign and submit the transaction.

Joining a pool

Go back to extrinsics and select **vtbcNominationPools** ▾ **join(amount, poolId)** extrinsic.

using the selected account free balance 1,001.4425 vTBC
VTB MAINNET (EXTENSION) 5CfRreyrNU... ▾

submit the following extrinsic
vtbcNominationPools ▾ join(amount, poolId) See [Pallet::join']. ▾

amount: Compact<u128> (BalanceOf)
10000000000000000000

poolId: u32 (PoolId)
2

encoded call data
0x0b00130000e8890423c78a02000000

encoded call hash
0x518ce388b802530fbd4b63d7e6f4253c7390e335eb6a5e80bcd0
690d5d92dcd

encoding details

callindex 0b00

amount 130000e8890423c78a

poolid 02000000

link [#/extrinsics/decode/0x0b00130000e8890423c78a020...](#)

Submit Unsigned **Submit Transaction**

The extrinsic requires the following inputs:

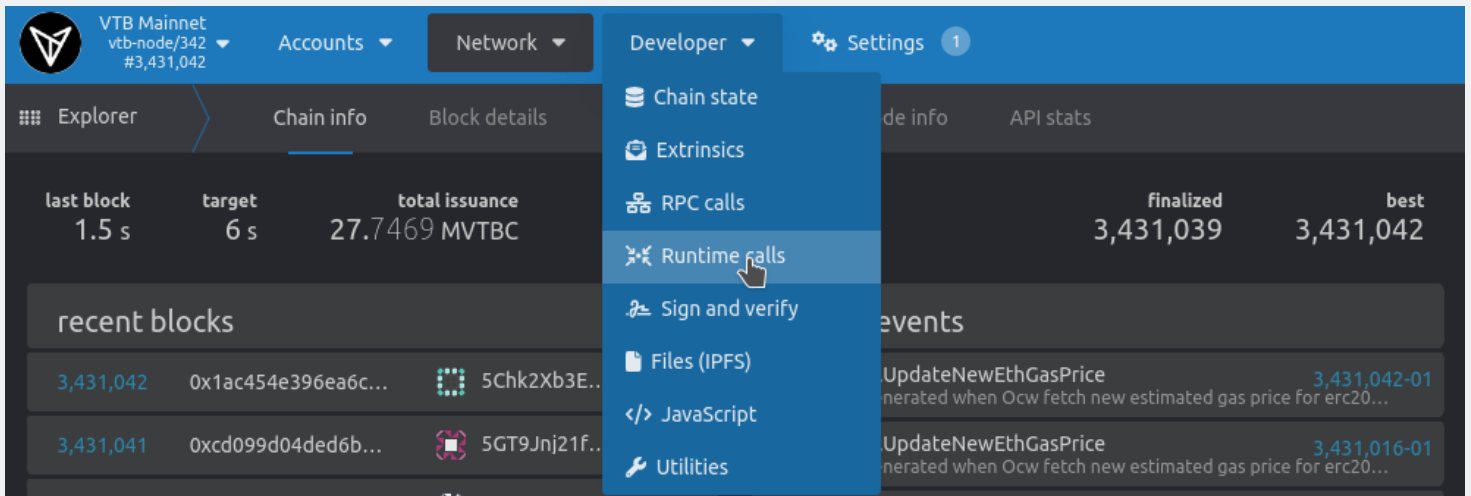
- **amount** - The amount of tokens to bond in the pool. This must be at least 10 VTBC.
- **poolId** - The ID of pool to join.

Enter the values and click **Submit Transaction** to sign and submit the transaction.

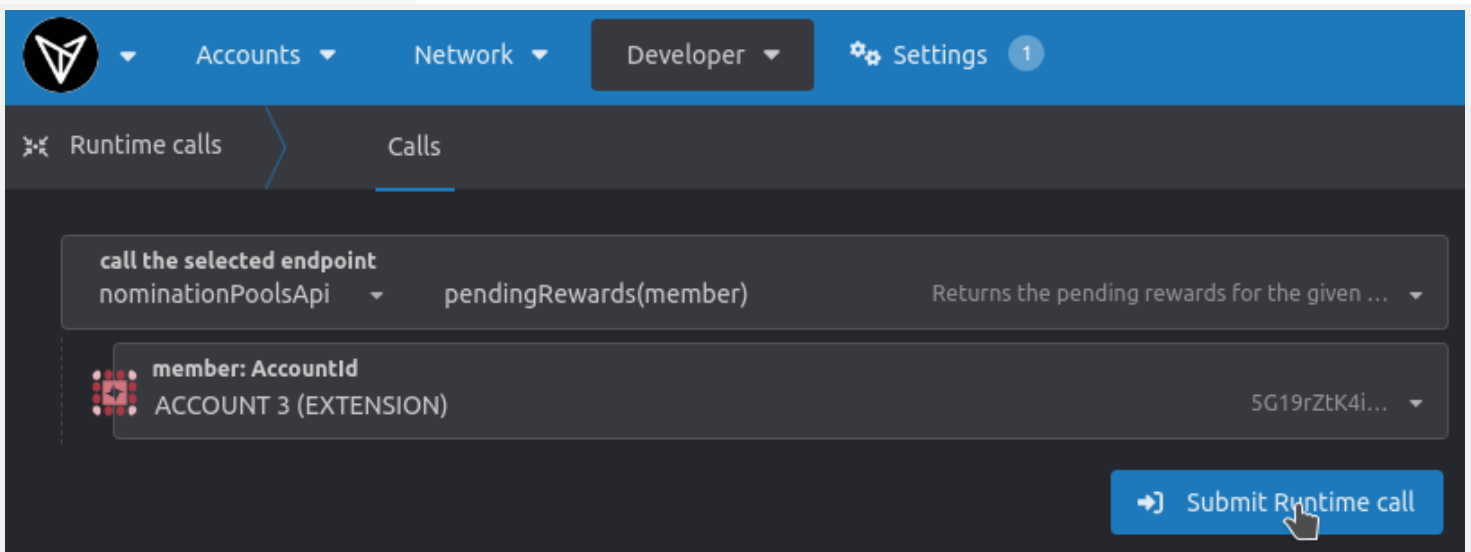
Claiming rewards

Checking pending rewards

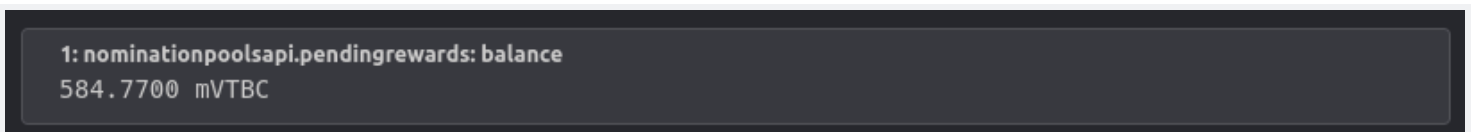
Before trying to claim rewards it is good practice to check if there are any pending rewards to claim. To check pending rewards go to **Developer > Runtime calls** section.



In **call the selected endpoint** field select **nominationPoolsApi** from the left dropdown and select **pendingRewards(member)** from the right dropdown.

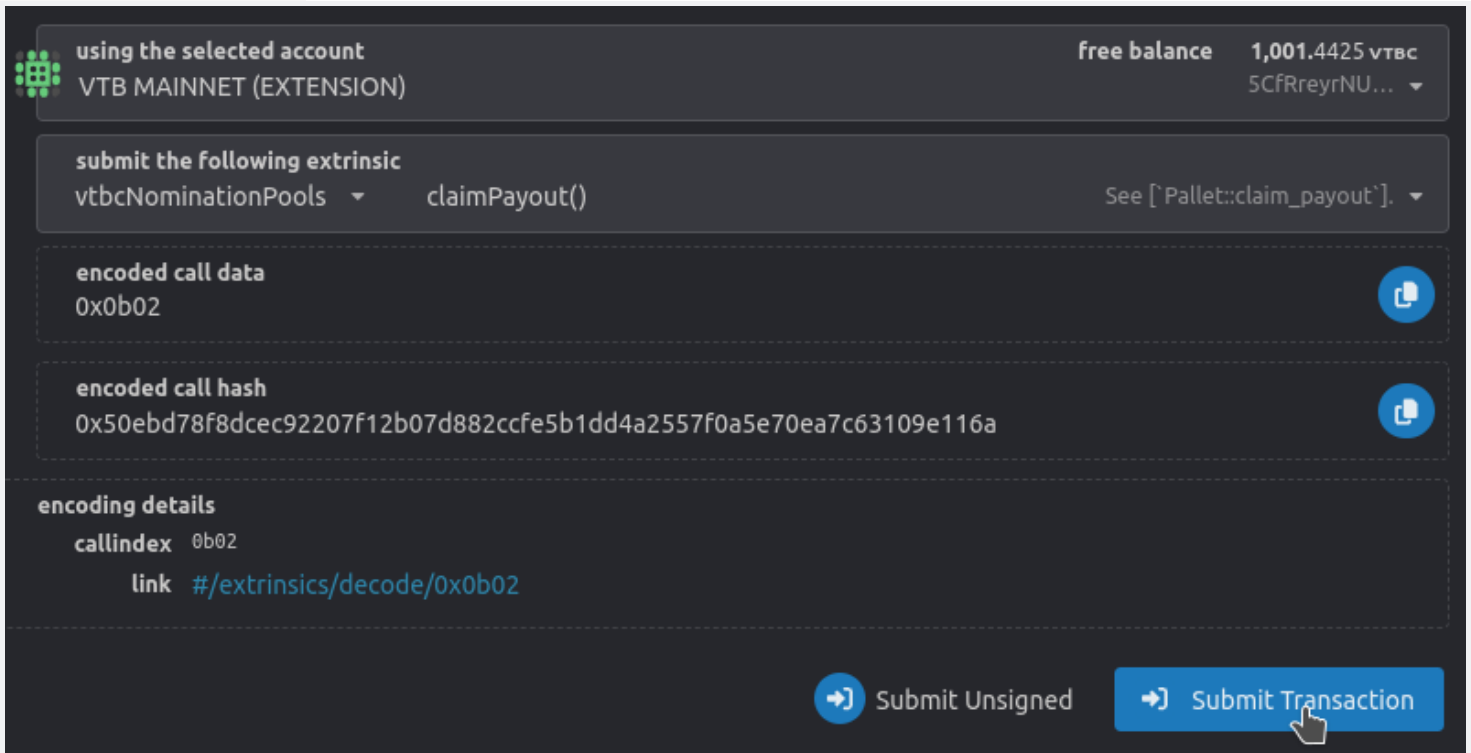


In the **member** field, select your account and click **Submit Runtime call** button. This shows the available rewards for your account.



Claiming pending rewards

Go back to extrinsics section and select `vtbcNominationPools` `claimPayout()` extrinsic. Click **Submit Transaction** button to sign and submit the transaction.



The screenshot shows a transaction submission interface for the 'VTB MAINNET (EXTENSION)' account. The account's free balance is 1,001.4425 VTB. The selected extrinsic is `vtbcNominationPools` `claimPayout()`. The encoded call data is `0x0b02` and the encoded call hash is `0x50ebd78f8dce92207f12b07d882ccfe5b1dd4a2557f0a5e70ea7c63109e116a`. The encoding details show a call index of `0b02` and a link to `#/extrinsics/decode/0x0b02`. At the bottom, there are two buttons: 'Submit Unsigned' and 'Submit Transaction', with a mouse cursor pointing to the latter.

Increasing your bond

A bond/stake increase is done by calling the `vtbcNominationPools` `bondExtra(extra)` extrinsic. This extrinsic takes one of the following two inputs:

- **Free Balance** - Bond new tokens from your free balance,
- **Rewards** - Bond from the accumulated rewards.

using the selected account
VTB MAINNET (EXTENSION)

free balance 1,001.4425 vtbtc
5CFRreyrNU...

submit the following extrinsic
vtbcNominationPools bondExtra(extra) See [Pallet::bond_extra'].

extra: PalletNominationPoolsBondExtra
FreeBalance

FreeBalance: u128
10000000000000000000

encoded call data
0x0b01000000e8890423c78a0000000000000000

encoded call hash
0x96e1b226e62cc4b3c8089fda807f4bf86f4b4592a61f43d407b04a1d6c9dd30

encoding details
callindex 0b01
extra 00 0000e8890423c78a0000000000000000
link #/extrinsics/decode/0x0b01000000e8890423c78a00...

Submit Unsigned Submit Transaction

Select the appropriate input and click **Submit Transaction** button to sign and submit the transaction.

Unbonding tokens from the pool

Go back to the extrinsics section and select **vtbcNominationPools** **unbond(memberAccount, unbondingPoints)** .

This extrinsic requires the following inputs:

- **memberAccount** - The account for which to unbond tokens. For the most part this should be the same as the account that calls the extrinsic. If the pool is in **Blocked** state, then the accounts with the role of **Bouncer** and **Root** can unbond any other account from the pool. And if the account is in **Destroying** state, then any account can unbond any other account from the pool.
- **unbondingPoints** - The amount of tokens to unbond from the pool. If you are trying to unbond for someone else's account (only when the pool state is either **Blocked** or **Destroying**) then this value must equal to their total bonded tokens.

using the selected account
VTB MAINNET (EXTENSION)
free balance 1,001.4425 vtb
5CfRreyrNU...

submit the following extrinsic
vtbcNominationPools unbond(memberAccount, unbondingPoints) See ['Pallet::unbond']

memberAccount: MultiAddress (AccountIdLookupOf)
Id

Id: AccountId
ACCOUNT 3 (EXTENSION) 5G19rZtK4i...

unbondingPoints: Compact<u128> (BalanceOf)
10000000000000000000

encoded call data
0x0b0300ae3b785ae3d3df346a007f09c3c90175b257e386c37595c37
4f736891fb4f823130000e8890423c78a

encoded call hash
0x87b3abffe8680eaf0274e4868e941facddd50fb708abc7a7a54525
53618a92

encoding details

callindex 0b03

memberaccount 00 ae3b785ae3d3df346a007f09c3c90175b257e386c37595c37
4f736891fb4f823

unbondingpoints 130000e8890423c78a

link #/extrinsics/decode/0x0b0300ae3b785ae3d3df3...

Submit Unsigned Submit Transaction

Enter the appropriate values and click **Submit Transaction** button to sign and submit the transaction.

Note that the tokens that are unbonded are not immediately available. After submitting the unbond extrinsic, the tokens remain in unbonding state for a period of 28 days. After completion of unbonding period of 28 days, the tokens can be moved to your account by calling `vtbcNominationPools` `withdrawUnbonded(memberAccount, numSlashingSpans)` extrinsic.

Withdrawing tokens from the pool

After some tokens have been unlocked from the pool by calling the `vtbcNominationPools` `unbond(memberAccount, unbondingPoints)` extrinsic, they can be withdrawn from the pool by calling `vtbcNominationPools` `withdrawUnbonded(memberAccount, numSlashingSpans)` extrinsic.

This extrinsic requires the following inputs:

- **memberAccount** - The account for which to withdraw tokens. For the most part this should be the same as the account that calls the extrinsic. If the pool is in **Blocked** state, then the accounts with the role of **Bouncer** and **Root** can withdraw token for any other account in the pool. And if the account is in **Destroying** state, then any account can call this extrinsic on behalf of any other account in the pool.
- **numSlashingSpans** - The number of times this account has been slashed.

using the selected account free balance 0.0000 vтbc
ACCOUNT 3 (EXTENSION) 5G19rZtK4i...

submit the following extrinsic
vtbcNominationPools withdrawUnbonded(memberAccount, numSlashingSpans) See ['Pallet::withdraw_unbonded'].

memberAccount: MultiAddress (AccountIdLookupOf)
Id

Id: AccountId
ACCOUNT 3 (EXTENSION) 5G19rZtK4i...

numSlashingSpans: u32
0

encoded call data
0x0b0500ae3b785ae3d3df346a007f09c3c90175b257e386c37595c374f736891fb4f82300000000

encoded call hash
0x76269f91975dd4cf9f17ecaa941bce24afa012e7bc96e3a94c76bd04b3ae9415

encoding details

callindex 0b05

memberaccount 00 ae3b785ae3d3df346a007f09c3c90175b257e386c37595c374f736891fb4f823

numslashingspans 00000000

link [#/extrinsics/decode/0x0b0500ae3b785ae3d3df...](#)

Submit Unsigned
Submit Transaction

Enter the appropriate values and click **Submit Transaction** button to sign and submit the transaction.

Changing pool state

A pool can be in one of the following three states:

- **Open** - The pool is working normally and new members can join.
- **Blocked** - The pool is working normally but no new members can join.
- **Destroying** - The pool is in the process of being destroyed. Once the pool is in this state, it can no longer go back to **Open** or **Blocked** state. In this state members can still leave the pool, but no new members can join.

To change the pool state, go back to the extrinsics section and select **vtbcNominationPools** `setState(poolId, state)` extrinsic.

The extrinsic requires the following inputs:

- **poolId** - The pool of which to change state,
- **state** - New state for the pool.

using the selected account
VTB MAINNET (EXTENSION)

free balance 1,001.4425 vTbC
5CFRreyrNU...

submit the following extrinsic
vtbcNominationPools setState(poolId, state) See ['Pallet::set_state'].

poolId: u32 (PoolId)
2

state: PalletNominationPoolsPoolState
Blocked

encoded call data
0x0b090200000001

encoded call hash
0x0a0c9e73b466056b2aef5b1c68433a33197263acf11aba9232e...
2d2d40863eda

encoding details
callindex 0b09
poolid 02000000
state 01
link #/extrinsics/decode/0x0b090200000001

Submit Unsigned Submit Transaction

Enter the values and click **Submit Transaction** to sign and submit the transaction.

Destroying a pool

A pool can only be destroyed once it is in **Destroying** state. Once in **Destroying** state all pool members must leave by unbonding and withdrawing their tokens. When the final pool member leaves the pool, the pool will be destroyed.

Note that the depositor (the member who created the pool) must be the last member to leave. The depositor can only unbond their tokens after all other pool members have left.