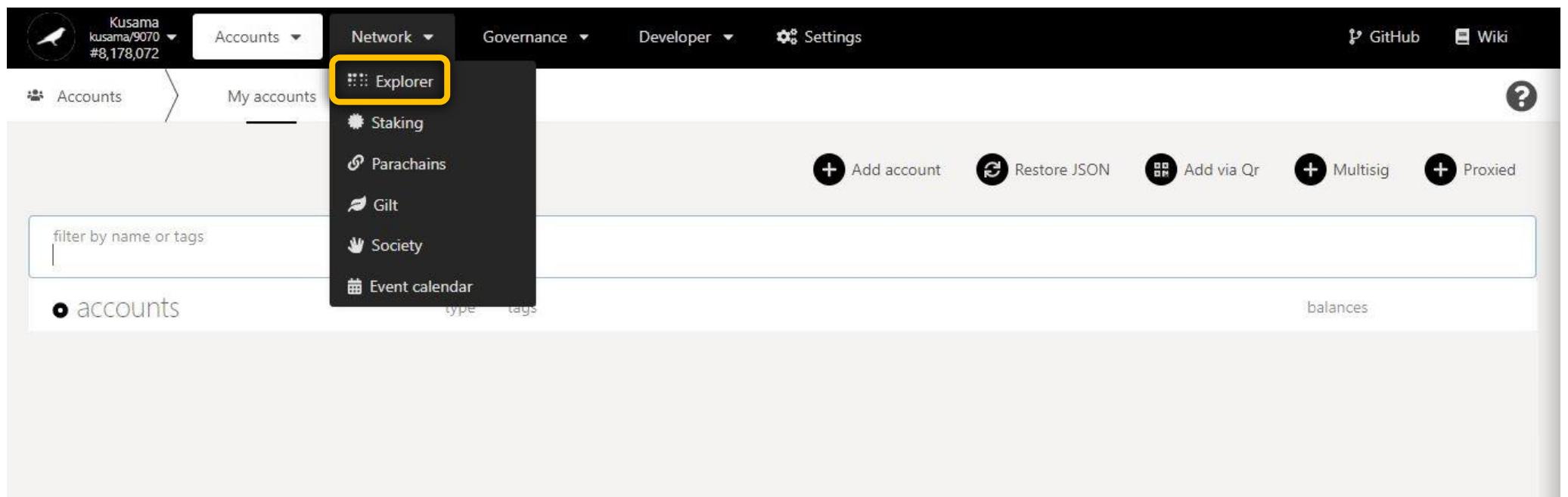


## PART II: Network

### 1. Explorer: Explore latest blockchain data.



## a) View blockchain information.

Search block hashes or block numbers.

The screenshot shows the Polkadot.js Network dashboard with the following sections:

- Key information on blockchain:** time elapsed since last block, targeted block time, total KSM supply, epoch countdown, blocks' statistics.
- Recent blocks:** A table showing the last 8 blocks, including their hash, timestamp, and validator.
- Recent events:** A table showing the last 10 events, including their type, description, and block number.
- Recent block numbers:** A yellow box pointing to the first column of the recent blocks table.
- Recent block hashes:** A yellow box pointing to the second column of the recent blocks table.
- Recent block validators:** A yellow box pointing to the third column of the recent blocks table.
- Overview of transactions/operations included in recent blocks:** A yellow box pointing to the recent events table.

**Key information on blockchain:**

last block	target	total issuance	epoch	last events	finalized	best
2.8 s	6 s	11.3050 MKSM	1 hr 59 mins 42 s	13	8,482,934	8,482,937

**recent blocks:**

Block Number	Hash	Validator
8,482,937	0xdd5d8de645bdb57af99ae3a10c9b0e3b078d...	GhMryB...3byTJC
8,482,936	0x541ca774dcab9dc249569c96e18398a826d6...	ROCKX_KUSAMA3
8,482,935	0x20242390ec24100981b009cc41e634cd6592...	GpSSta...kEybPs
8,482,934	0xd34022c6fc752cccd3e5ebdf050fc93939...	CoS64C...TZXY5v
8,482,933	0xe7364598dd34ccb7de10124a6f7cd61eacab...	L30
8,482,932	0x9581957e7bbc00af3be6299d9558df2a26f3...	STAKEFISH/SF-2
8,482,931	0x9b28449158817ec86b4a0650941d568c2dd1...	BINANCE_KSM_14
8,482,930	0x9118d828d90be70ca3b3b66e903c6710b6d3...	ZUG CAPITAL/58

**recent events:**

Type	Description	Block Number
staking.Reward	The staker has been rewarded by this amount. [stash, amount]	(2x) 8,482,937-8
staking.Reward	The staker has been rewarded by this amount. [stash, amount]	(4x) 8,482,936-6
grandpa.NewAuthorities	New authority set has been applied. [authority_set]	8,482,934-8
session.NewSession	New session has happened. Note that the argument is the [session_index], not the block number as the type might suggest.	8,482,934-3
staking.EraPayout	The era payout has been set; the first balance is the validator-payout; the second is the remainder from the maximum amount of reward. [era_index, validator_payout, remainder]	8,482,934-1
imOnline.AllGood	At the end of the session, no offence was committed.	8,482,934-0
staking.Bonded		8,482,922-8

## b) View block details.

**Key information on current block: amounts transferred, block weight, and number of transactions.**

deposits	transfers	block weight	event count	extrinsic count	
0.0000 KSM	0.0000 KSM	435,530,000	0%	7	2

● 8,482,946      hash      parent      extrinsics      state

 CABLE-X      0x39dcef4509015e35a299f052...      0x12167f7fc2d0058ebde33199...      0x4d00031af91023ff9db2a244...      0x2fca44400add2eed16b8c931...      View this externally  
Polkastcan Polkastats Subscan

**Extrinsics**

timestamp.set Set the current time.	system.ExtrinsicSuccess An extrinsic completed successfully. [info]
parasInherent.enter Enter the paras inherent. This will process bitfields and backed candidates.	parasInclusion.CandidateIncluded A candidate was included. [candidate, head_data] parasInclusion.CandidateIncluded A candidate was included. [candidate, head_data] parasInclusion.CandidateIncluded A candidate was included. [candidate, head_data] parasInclusion.CandidateBacked A candidate was backed. [candidate, head_data] parasInclusion.CandidateBacked

**Events**

**Extrinsics & Events in detail:**

An event is a piece of data **from within the blockchain** (ex: issue a reward payout from my validator).

An extrinsic is a piece of data **from the outside world** (ex: claim a reward payout for my stash).

**Overview of transactions/operations included in this block.**

Note: Click on the dropdown arrow to view each individual transaction/operation in greater detail.

## c) Monitor blockchain forks.

The screenshot shows the Polkadot.js interface with the 'Network' tab selected. In the top left, there's a user icon, the network name 'Kusama', account 'kusama/9070', and balance '#8,483,005'. The top navigation bar includes 'Accounts', 'Network', 'Governance', 'Developer', 'Settings', 'GitHub', and 'Wiki'.

The main area displays 'Chain info' and 'Forks'. A red box labeled '2<sup>nd</sup> fork.' highlights the second fork entry. A green box labeled '1st fork.' highlights the first fork entry. The 'Forks' section lists several blocks with their numbers and hash prefixes. The first two blocks (#8,482,989 and #8,482,988) are highlighted in white, while the subsequent ones (#8,482,985, #8,482,984, and #8,482,969) are highlighted in green. A yellow box contains the text: 'Key information on forks: number of blocks captured, and number of forks encountered since monitoring started.'

A green arrow points from the text 'Last propagated block number and block hash (white colour)' to the white-highlighted blocks. Another green arrow points from the text 'Last finalised block number and block hash (green colour)' to the green-highlighted blocks.

**2<sup>nd</sup> fork.**

**1st fork.**

blocks 38 forks 2

Key information on forks: **number of blocks captured, and number of forks encountered since monitoring started.**

Last propagated block number and block hash (white colour) captured by this node since monitoring started.

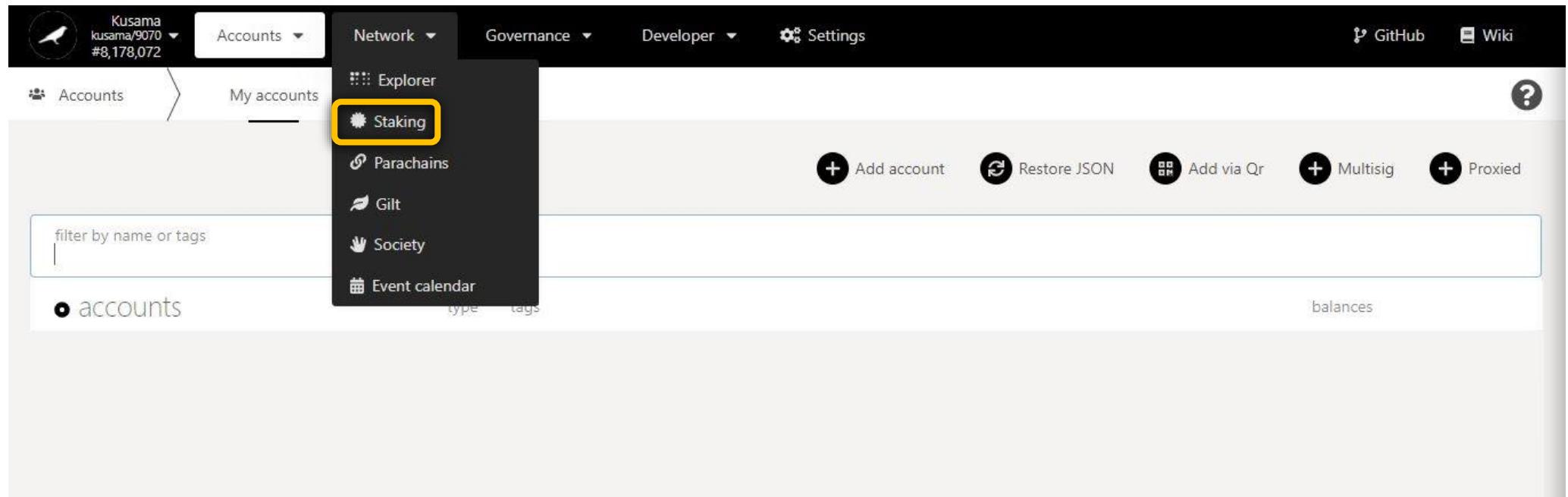
Last finalised block number and block hash (green colour) captured by this node since monitoring started.

Block Number	Block Hash Prefix
#8,483,005	0x90bc80922...
#8,482,989	0xc90b093ad...
#8,482,988	0x486895bf0...
#8,482,985	0x46bebf794...
#8,482,984	0x8f1bb305b...
#8,482,969	0xc4acbb85a...

## d) Monitor blockchain nodes information.

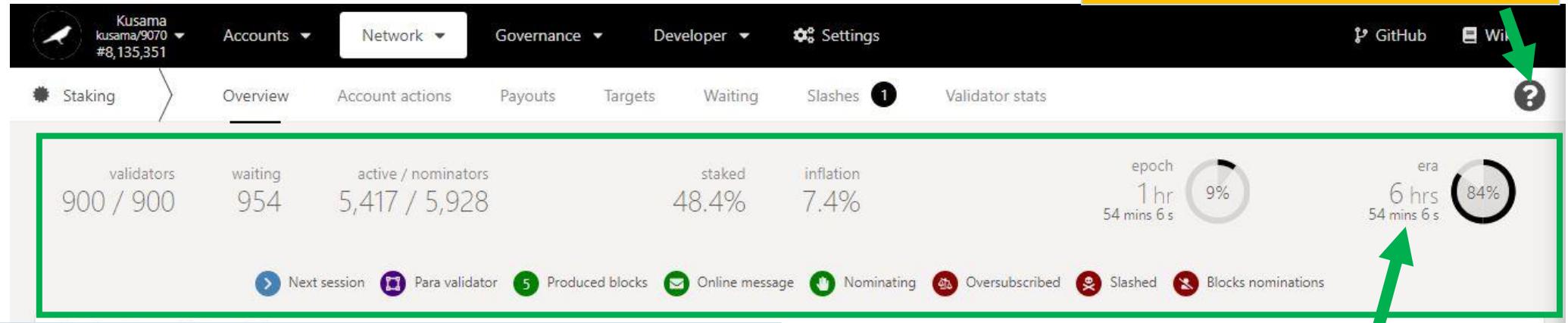
The screenshot shows the Polkadot.js interface for the Kusama network. The top navigation bar includes 'Accounts', 'Network' (selected), 'Governance', 'Developer', 'Settings', 'GitHub', and 'Wiki'. The 'Network' dropdown shows 'kusama/9070' and '#8,483,009'. The 'Node info' tab is active. A yellow banner at the top states: 'Key information on current node: countdown to refresh, peer nodes, sync status.' Below this, a green box contains metrics: 'refresh in 4.6 s', 'total peers 18', 'syncing no', 'queued tx 1', and 'our best 8,483,009'. A green arrow points to the '1' in 'queued tx'. Another green arrow points to the '8,483,009' in 'our best'. A yellow box highlights 'Number of node(s) connected to this node.' (18). A yellow box highlights 'Number of transaction(s) in queue.' (1). A yellow box highlights 'Latest block number captured.' (8,483,009). A green arrow points to the 'no peers connected' link under 'connected peers'. A yellow box highlights 'Sender(s) of the transaction(s) in queue.' (with a placeholder icon and 'index 11'). A green arrow points to the 'utility.batch' button. A yellow box highlights 'Nature of the transaction(s) in queue.' (with a placeholder icon and 'index 11').

## 2. Staking: Explore staking-related operations.



## a) View general staking information.

**Basic information on technical words**  
used in the STAKING section.



Key information on validators, nominators and staking statistics.

Countdown to the inclusion of new nominators into the list of rewardees.

The screenshot shows the Validators page. It lists five validators with their addresses and icons:

- CaKh7H...pLYTH4
- CaRYnY...Y2bnqc
- CaSTAS...ZMjZl2
- CagHkt...yGym8W
- CamaqN...tbPFD1

Below this list is a table showing validators' balances, commissions, and performance:

	other stake	own stake	commission	points	last #
	5,003.4452 KSM (16)	1.0000 KSM	100.00%	1,060	
	6,901.6296 KSM (3)	0.4500 KSM	10.00%	1,120	
	4,173.3305 KSM (55)	10.0000 KSM	100.00%	780	
	7,413.6884 KSM (1)	0.1000 KSM	100.00%	640	
	5,181.4473 KSM (18)	1.0000 KSM	5.00%	1,480	

Addresses of currently elected validators.

Summary of validators' balances, commissions, and performance.

**NEVER SEND YOUR KSM TO A VALIDATOR'S ADDRESS!**

b) Manage account nominations:

- Set nominators.

The screenshot shows the Polkadot-JS Staking interface. At the top, there is a navigation bar with tabs for Accounts, Network, Governance, Developer, and Settings. Below the navigation bar, there is a sub-navigation bar with tabs for Overview, Account actions (which is the active tab), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. On the right side of the sub-navigation bar, there are three buttons: '+ Nominator' (highlighted with a green arrow and a callout box labeled '1. Click Nominator.'), '+ Validator', and '+ Stash'. The main content area is titled 'stashes' and contains the message 'No funds staked yet. Bond funds to validate or nominate a validator'. There is also a section for 'Slashes' which shows one slash.

**3. Double-check warning messages.**

**2. Follow on-screen instructions carefully.**

Distinct stash and controller accounts are recommended to ensure fund security. You will be allowed to make the transaction, but take care to not tie up all funds, only use a portion of the available funds during this period.

Think of the stash as your cold wallet and the controller as your hot wallet. Funding operations are controlled by the stash, any other non-funding actions by the controller itself.

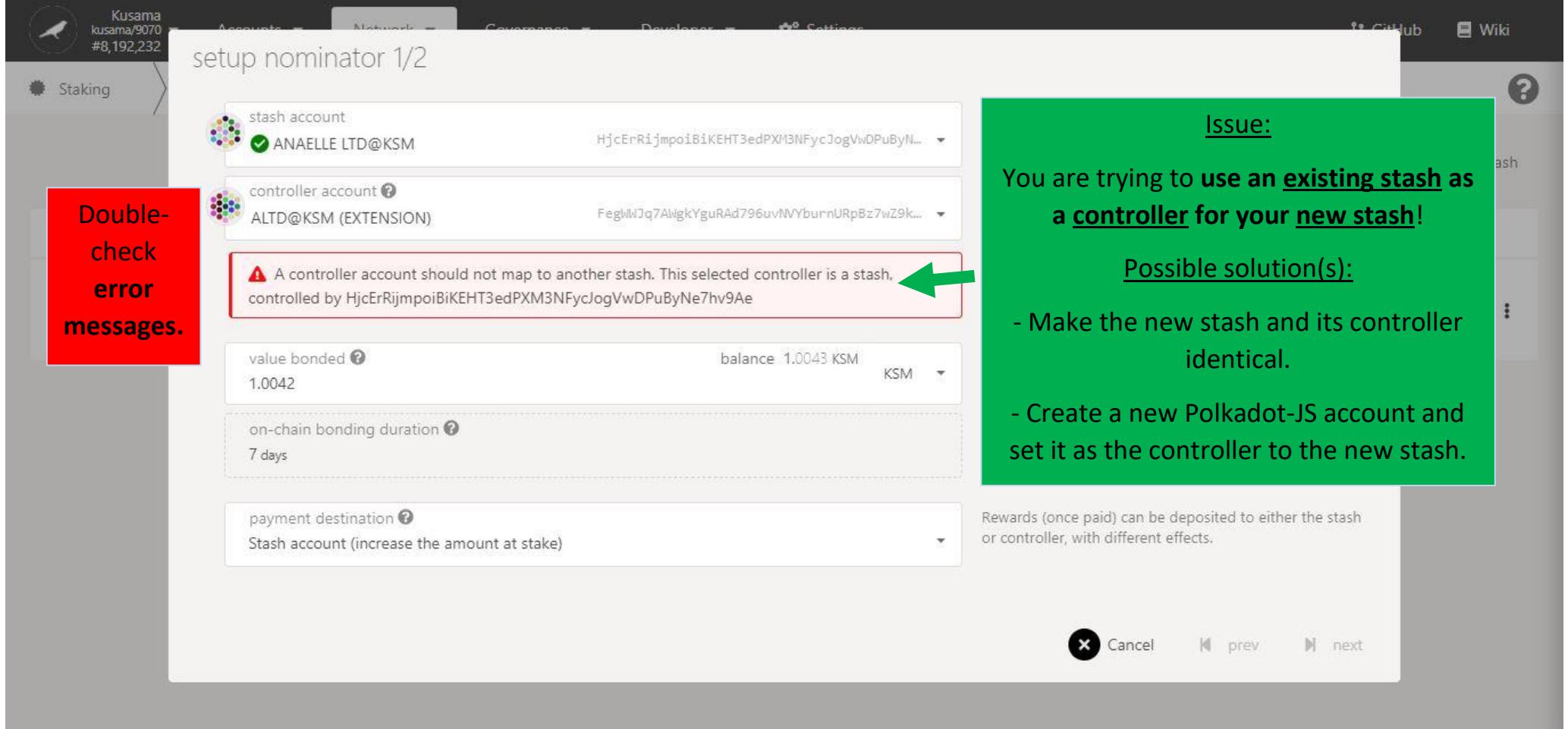
To ensure optimal fund security using the same stash/controller is strongly discouraged, but not forbidden.

The amount placed at-stake should not be your full available available amount to allow for transaction fees.

Once bonded, it will need to be unlocked/withdrawn and will be locked for at least the bonding duration.

Rewards (once paid) can be deposited to either the stash or controller, with different effects.

## [Troubleshooting 1/4]



Double-check error messages.

stash account  
ANAELE LTD@KSM

controller account ALTD@KSM (EXTENSION)

A controller account should not map to another stash. This selected controller is a stash, controlled by HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByNe7hv9Ae

value bonded 1.0042

balance 1.0043 KSM

on-chain bonding duration 7 days

payment destination Stash account (increase the amount at stake)

Rewards (once paid) can be deposited to either the stash or controller, with different effects.

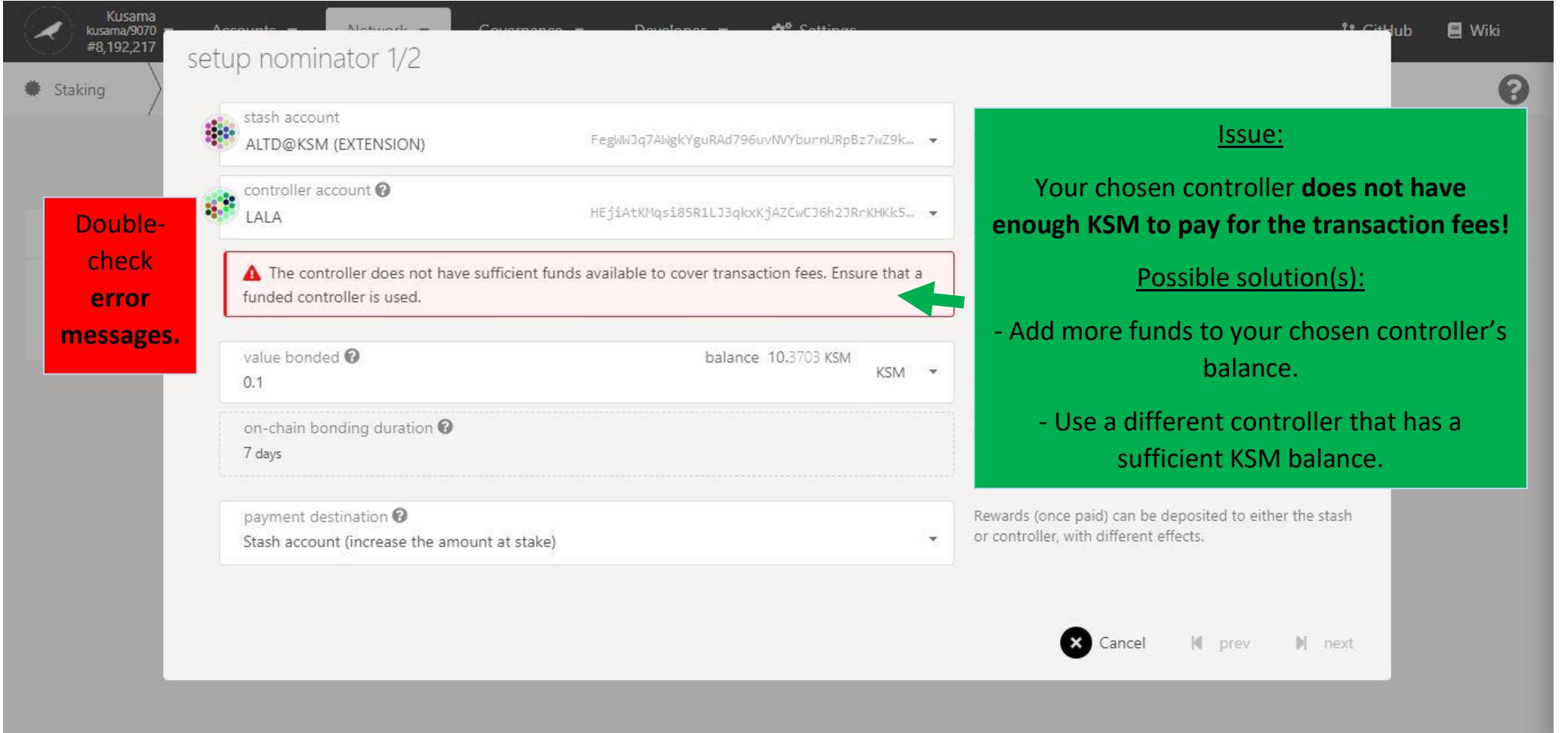
Issue:  
You are trying to use an existing stash as a controller for your new stash!

Possible solution(s):

- Make the new stash and its controller identical.
- Create a new Polkadot-JS account and set it as the controller to the new stash.

Cancel prev next

## [Troubleshooting 2/4]



The screenshot shows the Polkadot-JS extension interface for Kusama. The top bar includes tabs for Accounts, Network, Governance, Developers, and Settings, along with GitHub and Wiki links. The main area is titled "setup nominator 1/2". It displays fields for a stash account ("ALTD@KSM (EXTENSION)"), controller account ("LALA"), value bonded (0.1 KSM), and on-chain bonding duration (7 days). A payment destination dropdown is set to "Stash account (increase the amount at stake)". A red box highlights an error message: "⚠ The controller does not have sufficient funds available to cover transaction fees. Ensure that a funded controller is used." A green arrow points from this message to a green callout box on the right.

### Issue:

Your chosen controller does not have enough KSM to pay for the transaction fees!

### Possible solution(s):

- Add more funds to your chosen controller's balance.
- Use a different controller that has a sufficient KSM balance.

Rewards (once paid) can be deposited to either the stash or controller, with different effects.

 Cancel  prev  next

## [Troubleshooting 3/4]

setup nominator 1/2

stash account  
LALA HEjiAtKMqsi85R1LJ3qkxKjAZCwCJ6h2JRrKHk5...

controller account ?  
LALA HEjiAtKMqsi85R1LJ3qkxKjAZCwCJ6h2JRrKHk5...

**⚠ The controller does not have sufficient funds available to cover transaction fees. Ensure that a funded controller is used.** ←

value bonded ?  
0 balance 0.0000 KSM KSM

**⚠ The specified value is too large and does not allow funds to pay future transaction fees.** ←

on-chain bonding duration ?  
7 days

payment destination ?  
Stash account (increase the amount at stake)

Rewards (once paid) can be deposited to either the stash or controller, with different effects.

Cancel prev next

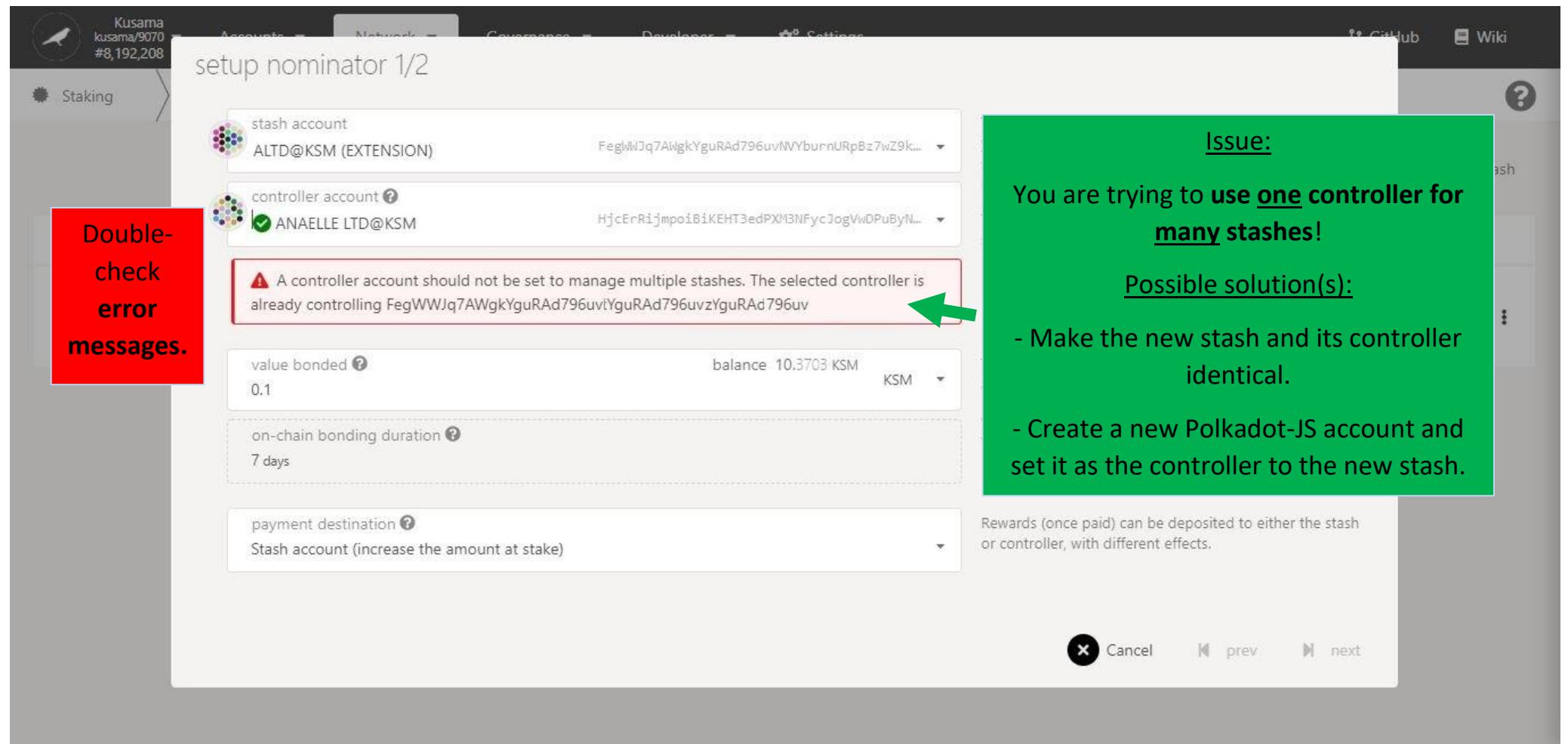
**Issue:**

Your stash and controller **do not have enough KSM to bond for the nominations and to pay for the transaction fees!**

**Possible solution(s):**

- Add more funds to your stash balance and controller balances. Note: A minimum of 0.1KSM is needed to nominate.
- Bond more funds into a pre-existing stash that has some spare KSM.

## [Troubleshooting 4/4]



Double-check error messages.

Issue:

You are trying to use one controller for many stashes!

Possible solution(s):

- Make the new stash and its controller identical.
- Create a new Polkadot-JS account and set it as the controller to the new stash.

Rewards (once paid) can be deposited to either the stash or controller, with different effects.

Cancel prev next

The screenshot shows the Polkadot-JS extension interface for setting up a nominator. The top navigation bar includes tabs for Accounts, Network, Governance, Developers, and Settings, along with links for GitHub and Wiki. On the left sidebar, there are sections for Staking, stashes, and ALTD@. The main content area is titled "setup nominator 1/2". It displays two accounts: "stash account" (ALTD@KSM (EXTENSION)) and "controller account" (ALTD@KSM (EXTENSION)). A note states: "Think of the stash as your cold wallet and the controller as your hot wallet. Funding operations are controlled by the stash, any other non-funding actions by the controller itself." Another note cautions: "To ensure optimal fund security using the same stash/controller is strongly discouraged, but not forbidden." A yellow warning box contains the message: "⚠️ Distinct stash and controller accounts are recommended to ensure fund security. You will be allowed to make the transaction, but take care to not tie up all funds, only use a portion of the available funds during this period." Below this, a list of options for selecting a stash account is shown, with "Stash account (increase the amount at stake)" highlighted. A green arrow points from this option to a blue callout box containing the instruction: "4. Select one option for receiving reward payouts." To the right of this box is another callout: "Once bonded, it will need to be unlocked/withdrawn and will be locked for at least the bonding duration." At the bottom right are buttons for "Cancel", "prev", and "next", with "next" being circled in green. A final blue callout box at the bottom right says: "5. Click on Next to continue the procedure."

setup nominator 1/2

stash account  
ALTD@KSM (EXTENSION)

controller account  
ALTD@KSM (EXTENSION)

⚠️ Distinct stash and controller accounts are recommended to ensure fund security. You will be allowed to make the transaction, but take care to not tie up all funds, only use a portion of the available funds during this period.

Stash account (increase the amount at stake) ←

4. Select one option for receiving reward payouts.

Once bonded, it will need to be unlocked/withdrawn and will be locked for at least the bonding duration.

Rewards (once paid) can be deposited to either the stash or controller, with different effects.

Cancel prev next

5. Click on Next to continue the procedure.

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Version 1.0

6. Follow the **new instructions** carefully.

Nominators can be selected manually from the list of all currently available validators.

Once transmitted the new selection will only take effect in 2 eras taking the new validator election cycle into account. Until then, the nominations will show as inactive.

7. Double-check warning messages.

**⚠️ You should trust your nominations to act competently and honest; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.**

setup nominator 2/2

8. Click on **10-16 validators' names or addresses** to add them to your selection.

Nominators can be selected manually from the list of all currently available validators.

Once transmitted the new selection will only take effect in 2 eras taking the new validator election cycle into account. Until then, the nominations will show as inactive.

candidate accounts

- ALLNODES/41
- SHOTMAKER/0
- STAKE-OPS/1
- MELANGE
- ALLNODES/43

nominated accounts

- JACKFLASH/FORKLESSNATION
- HUNTER
- SORAMITSU/SUB1
- RYABINA/[12]T.ME/KUSAMA\_BOT
- ADAM\_CLAY\_STEEBER

**⚠️** You should trust your nominations to act competently and honest; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.

Cancel prev Bond & Nominate

9. You can search for your favourite validator to speed up this process.

Nominators can be selected manually from the list of all currently available validators.

Once transmitted the new selection will only take effect in 2 eras taking the new validator election cycle into account. Until then, the nominations will show as inactive.

**candidate accounts**

- SULTANOFSTAKING

**nominated accounts**

- JACKFLASH/FORKLESSNATION
- HUNTER
- JACO/v35
- SORAMITSU/SUB1
- RYABINA/ [12] T.ME/KUSAMA\_BOT

**⚠️** You should trust your nominations to act competently and honest; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.

Cancel prev Bond & Nominate

setup nominator 2/2

sultan

candidate accounts

nominated accounts

- HUNTER
- SORAMITSU/SUB1
- RYABINA/[12] T.ME/KUSAMA\_BOT
- ADAM\_CLAY\_STEEBER
- SULTANOFSTAKING

**10. Double-check your selection of validators.**

Nominators can be selected manually from the list of all currently available validators.

Once transmitted the new selection will only take effect in 2 eras taking the new validator election cycle into account. Until then, the nominations will show as inactive.

**11. Click on Bond & nominate to continue the procedure.**

Cancel prev Bond & Nominate

**Nature of the transaction.**

**More validators**  
= more  
nominations  
= higher  
transaction fees.

authorize transaction

Sending transaction utility.batchAll(calls)  
Send a batch of dispatch calls and atomically execute them. The whole transaction will rollback and fail if any of the calls failed.

Fees of 120.9988 micro KSM will be applied to the submission

sending from my account  
ALTD@KSM (EXTENSION)

Do not include a tip for the block author

call hash  
0xc337e6e06d4d94e90c5de2718dfb58bfc7ed305c50ccaa2252d3d38ecff2f2b6

Sign and Submit

**12. Follow the final instructions carefully.**

utility.batchAll queued

The details of the transaction including the type, the description (as available from the chain metadata) as well as any parameters and fee estimations (as available) for the specific type of call.

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

**13. Click on Sign & submit to continue the procedure.**

Cancel **Sign and Submit**

## GUIDE TO POLKADOT-JS – PART II: Network

Version 1.0

The screenshot shows the Polkadot.js extension interface for Kusama. A yellow box on the left contains the text: "Summary of the transaction sent via the Polkadot-JS extension." An arrow points from this text to the transaction details in the center-left window. Another arrow points from the "utility.batchAll signing" status bar at the top right to the progress bar below it. A blue box at the bottom right contains the instruction: "15. Click on **Sign the transaction** to complete the procedure." A green box on the right contains the instruction: "14. Enter your account's password and tick the box to remember your password, if necessary." The "Sign the transaction" button is highlighted with a green oval.

**Summary of the transaction sent via the Polkadot-JS extension.**

from https://polkadot.js.org/apps/#/staking  
chain Kusama  
version 9070  
nonce 248  
method ► utility.batchAll(calls)  
info ► Send a batch of dispatch calls and atomically execute them. T...  
lifetime mortal, valid from 8,192,317 to 8,192,381

PASSWORD FOR THIS ACCOUNT  
••••••••••  
 Remember my password for the next 15 minutes

**Sign the transaction**

**utility.batchAll signing**

**Progress of the transaction.**

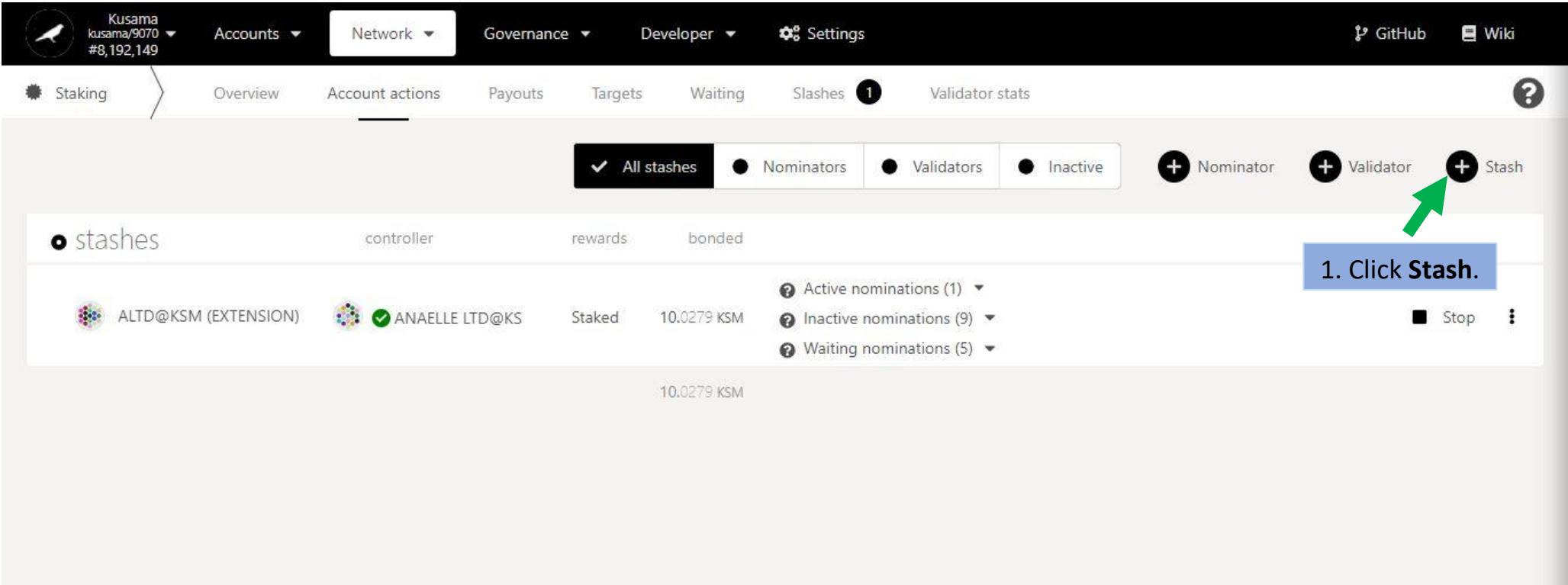
14. Enter your account's password and tick the box to remember your password, if necessary.

15. Click on **Sign the transaction** to complete the procedure.

## GUIDE TO POLKADOT-JS – PART II: Network

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- Add stashes.



The screenshot shows the Polkadot-JS Staking interface. At the top, there's a navigation bar with tabs for Accounts, Network (selected), Governance, Developer, and Settings. Below the navigation bar, there are tabs for Overview, Account actions (selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. On the left, a sidebar shows the network as Kusama (kusama/9070) with 8,192,149 stakers. The main content area is titled 'stashes' and shows a table with columns for controller, rewards, and bonded amount (10.0279 KSM). There are dropdown menus for Active nominations (1), Inactive nominations (9), and Waiting nominations (5). At the bottom right of the main content area, a blue box contains the text '1. Click Stash.' with a green arrow pointing to the '+ Stash' button. The '+ Stash' button is located in the top right corner of the main content area, next to '+ Nominator' and '+ Validator' buttons.

**2. Follow on-screen instructions carefully.**

Think of the stash as your cold wallet and the controller as your hot wallet. Funding operations are controlled by the stash, any other non-funding actions by the controller itself.

To ensure optimal fund security using the same stash/controller is strongly discouraged, but not forbidden.

**3. Double-check warning messages.**

**⚠ Distinct stash and controller accounts are recommended to ensure fund security. You will be allowed to make the transaction, but take care to not tie up all funds, only use a portion of the available funds during this period.**

value bonded 0.15 balance 10.3703 KSM KSM

on-chain bonding duration 7 days

payment destination Stash account (increase the amount at stake)

**4. Click on Bond to continue the procedure.**

Cancel Bond

Nature of the transaction.



authorize transaction

Sending transaction `staking.bond(controller, value, payee)`  
Take the origin account as a stash and lock up value of its balance. controller will be the account that controls it.

Fees of 52.6661 micro KSM will be applied to the submission

sending from my account  
ALTD@KSM (EXTENSION)

Do not include a tip for the block author

call hash  
0x2e106e2bdbb21e911e68c3d4c06160f12895d22a35559aa04e6767f499b1d301

Sign and Submit

payment destination ?  
Stash account (increase the amount at stake)

The details of the transaction including the type, the description (as available from the chain metadata) as well as any parameters and fee estimations (as available) for this type of call.

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

Cancel  Sign and Submit

6. Click on **Sign & submit** to continue the procedure.

Cancel  Bond

## GUIDE TO POLKADOT-JS – PART II: Network

Version 1.0

The screenshot shows the Polkadot-JS extension interface for the Kusama network. A green arrow points from the text "Summary of the transaction sent via the Polkadot-JS extension." to the transaction details window. Another green arrow points from the text "Progress of the transaction." to the top right corner where it says "staking.bond signing".

**Summary of the transaction sent via the Polkadot-JS extension.**

**Progress of the transaction.**

**Transaction Details:**

- from: https://polkadot.js.org/apps/#/staking
- chain: Kusama
- version: 9070
- nonce: 248
- method: ▶ staking.bond(controller, value, payee)
- info: ▶ Take the origin account as a stash and lock up 'value' of its bal...
- lifetime: mortal, valid from 8,192,578 to 8,192,642

**PASSWORD FOR THIS ACCOUNT**

••••••••••••••  
 Remember my password for the next 15 minutes  
**Sign the transaction**

**7. Enter your account's password and tick the box to remember your password, if necessary.**

**8. Click on Sign the transaction to complete the procedure.**

Kusama  
kusama/9070  
#8,194,806

Accounts Network Governance Developer Settings GitHub Wiki

Staking Overview Account actions Payouts Targets Waiting Slashes 1 Validator stats ?

**View all the stashes associated to your existing accounts.**

All stashes Nominators Validators Inactive

+ Nominator + Validator + Stash

stashes controller rewards bonded

ALTD@KSM (EXTENSION) ANAELLE LTD@KS

Active nominations (1)  
JACKFLASH/FORKLE! 10,0279 KSM

Inactive nominations (9)  
SHOTMAKER/SHOTMAKER 10,0279 KSM  
ALLNODES/41 10,0279 KSM  
ALLNODES/43 10,0279 KSM  
EARNSTASH/03 10,0279 KSM  
ICEBERG NODI 10,0279 KSM  
MELANGE 10,0279 KSM  
MANTRADAO 10,0279 KSM  
SHAWN/04 10,0279 KSM

Waiting nominations (5)  
STAKE-MACHINE, 10,0279 KSM  
LITBUTHEDGEDCA 10,0279 KSM  
AMALLYN 10,0279 KSM  
HUNTER 10,0279 KSM

Stop all nomination activities associated with this stash.

Stop

Name of the stash.  
It is used to bond KSM for nominations and set a controller.  
It can be used to compound reward payouts.

Name of the controller.  
It is used to set nominees for bonded KSM on behalf of a stash.

Staking summary:  
**Staked:** Total balance of KSM bonded/locked into nominations (includes reward payouts made into the stash).  
**Active nominations:** Nominated validator that is in the active set and making reward payments for the current era.  
**Inactive nominations:** Nominated validators that are in the active set but not making reward payments for the current era.  
**Waiting nominations:** Nominations waiting to be included in the active set or in the list of rewardees.

- Bond more funds.

The screenshot shows the Polkadot-JS interface for the Kusama network. The top navigation bar includes links for Accounts, Network (selected), Governance, Developer, Settings, GitHub, and Wiki. Below the navigation is a sub-menu for Staking with tabs for Overview, Account actions (selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. A question mark icon is also present. The main content area displays a table for 'stashes'. The table has columns for controller, rewards, and bonded amount (10.0279 KSM). It lists two stashes: 'ALTD@KSM (EXTENSION)' and 'ANAEILLE LTD@KS'. For each stash, it shows active, inactive, and waiting nominations. A green arrow points to the three vertical dots next to the 'ANAEILLE LTD@KS' entry, which is highlighted with a blue box containing the instruction: '1. Click on the 3 vertical dots to view Staking settings.'

controller	rewards	bonded
ALTD@KSM (EXTENSION)		10.0279 KSM
ANAEILLE LTD@KS		10.0279 KSM

Active nominations (1) ▾  
Inactive nominations (9) ▾  
Waiting nominations (5) ▾

Stop ⚙️

1. Click on the 3 vertical dots to view Staking settings.

## GUIDE TO POLKADOT-JS – PART II: Network

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The screenshot shows the Polkadot-JS Staking interface. At the top, there are tabs: Staking, Overview, Account actions (which is selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. Below the tabs are filters: All stashes (selected), Nominators, Validators, Inactive, and buttons to add a Nominator, Validator, or Stash. The main area displays 'stashes' with columns: controller, rewards, bonded, and nomination status (Active nominations: 1, Inactive nominations: 9, Waiting nominations: 5). A blue callout box with a green arrow points to the 'Bond more funds' option in a dropdown menu. The menu also includes Unbond funds, Withdraw unbonded funds, Change controller account, Change reward destination, and Set nominees.

2. Click on **Bond more funds** to increase the amount of KSM you are staking.

- Bond more funds
- Unbond funds
- Withdraw unbonded funds

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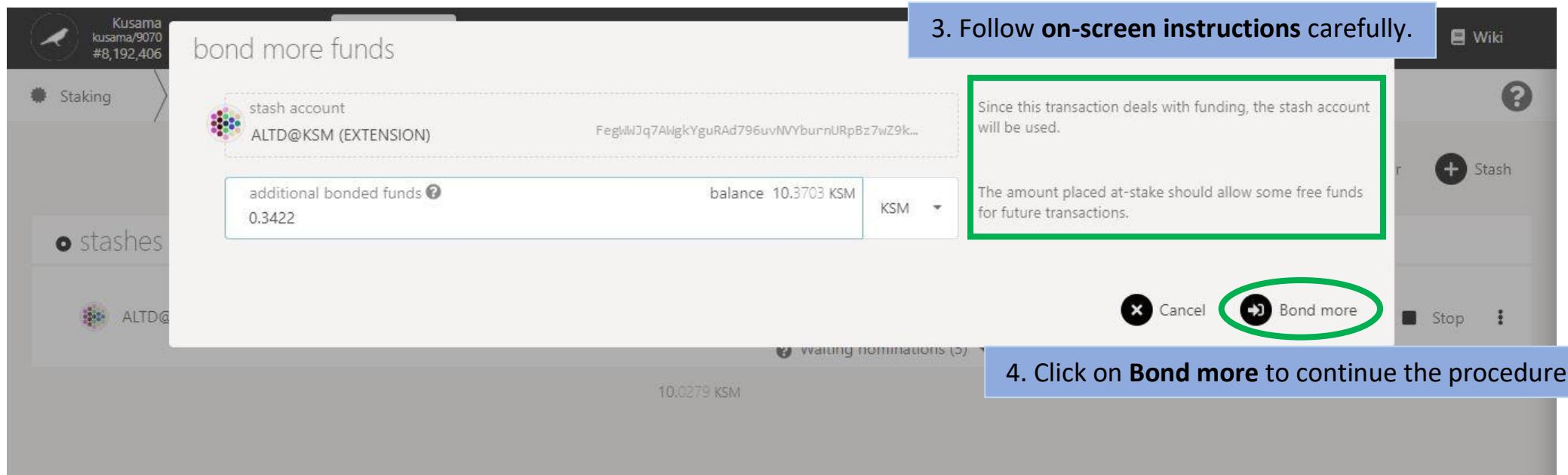
- Change controller account
- Change reward destination

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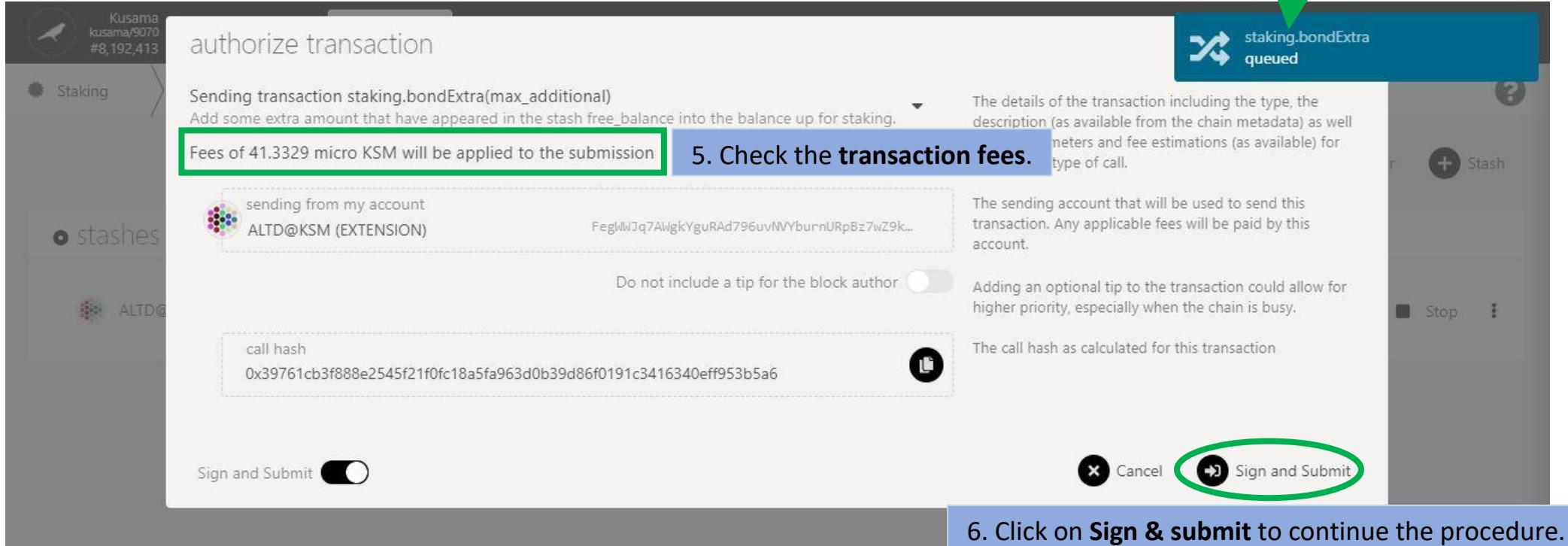
- Set nominees

## GUIDE TO POLKADOT-JS – PART II: Network

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Nature of the transaction.



authorize transaction

Sending transaction `staking.bondExtra(max_additional)`  
Add some extra amount that have appeared in the stash free\_balance into the balance up for staking.

Fees of 41.3329 micro KSM will be applied to the submission

sending from my account  
ALTD@KSM (EXTENSION)

Do not include a tip for the block author

call hash  
0x39761cb3f888e2545f21f0fc18a5fa963d0b39d86f0191c3416340eff953b5a6

Sign and Submit

staking.bondExtra queued

The details of the transaction including the type, the description (as available from the chain metadata) as well as meters and fee estimations (as available) for the type of call.

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

Cancel **Sign and Submit**

6. Click on **Sign & submit** to continue the procedure.

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The screenshot shows the Polkadot.js extension interface for the Kusama network. A modal window titled "Transaction" is open, displaying the details of a "staking.bondExtra(signing)" transaction. The transaction summary includes:

- from: https://polkadot.js.org/apps/#/staking
- chain: Kusama
- version: 9070
- nonce: 248
- method: staking.bondExtra(max\_additional)
- info: Add some extra amount that have appeared in the stash 'free...'.
- lifetime: mortal, valid from 8,192,414 to 8,192,478

A green arrow points to the "Summary of the transaction sent via the Polkadot-JS extension." text box. Another green arrow points to the "Sign the transaction" button, which is highlighted with a green oval. A blue box contains the instruction: "8. Click on Sign the transaction to complete the procedure." A blue box also contains the instruction: "7. Enter your account's password and tick the box to remember your password, if necessary." A green arrow points to the "Remember my password for the next 15 minutes" checkbox. A yellow box contains the text: "Progress of the transaction." A green arrow points to the "staking.bondExtra(signing)" status bar at the top right of the extension interface.

**Summary of the transaction sent via the Polkadot-JS extension.**

**Progress of the transaction.**

7. Enter your account's password and tick the box to remember your password, if necessary.

8. Click on Sign the transaction to complete the procedure.

- Unbond funds.

The screenshot shows the Polkadot-JS Staking interface. At the top, there's a navigation bar with links for Accounts, Network (selected), Governance, Developer, and Settings. Below the navigation is a sub-navigation bar with tabs for Overview, Account actions (selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. A question mark icon is on the right.

Below the tabs, there are filter buttons: 'All stashes' (selected), 'Nominators', 'Validators', and 'Inactive'. There are also buttons to '+ Nominator', '+ Validator', and '+ Stash'.

The main content area displays a table for 'stashes'. It has columns for controller, rewards, and bonded amount (10.0279 KSM). For each stash, there are dropdown menus for 'Active nominations' (1), 'Inactive nominations' (9), and 'Waiting nominations' (5). On the far right of each row is a 'Stop' button and a vertical ellipsis menu icon (three dots).

A green arrow points to the vertical ellipsis icon in the last row of the table. A blue callout box with white text provides instructions:

1. Click on the 3 vertical dots to view Staking settings.

## GUIDE TO POLKADOT-JS – PART II: Network

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The screenshot shows the Polkadot-JS Staking interface. At the top, there are tabs: Staking, Overview, Account actions (which is selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. Below the tabs are filters: All stashes (selected), Nominators, Validators, Inactive, and buttons to add a Nominator, Validator, or Stash. The main area displays 'stashes' with columns: controller, rewards, and bonded. Two stashes are listed: ALTD@KSM (EXTENSION) and ANAELLE LTD@KS. The ANAELLE entry shows it is Staked with 10.0279 KSM. To the right of the stashes are three dropdown menus: Active nominations (1), Inactive nominations (9), and Waiting nominations (5). A 'Stop' button and a more options icon are also present. A green arrow points from a callout box to the 'Unbond funds' option in a dropdown menu that appears when the 'More actions' icon is clicked. The callout box contains the text: "2. Click on Unbond funds to decrease the amount of KSM you are staking."

stashes

controller rewards bonded

ALTD@KSM (EXTENSION) ANAELLE LTD@KS Staked 10.0279 KSM

Active nominations (1)  
Inactive nominations (9)  
Waiting nominations (5)

Stop

More actions

2. Click on Unbond funds to decrease the amount of KSM you are staking.

Bond more funds  
Unbond funds  
Withdraw unbonded funds

Change controller account  
Change reward destination

Set nominees

## GUIDE TO POLKADOT-JS – PART II: Network

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The screenshot shows the Polkadot-JS UI interface for the Kusama network. The top bar displays the network name 'kusama/9070 #8,192,445'. A blue header bar contains the text '3. Follow on-screen instructions carefully.' Below this, a modal window titled 'unbond funds' is open. It shows two accounts: 'stash account' ALTD@KSM (EXTENSION) and 'controller account' ANAELLE LTD@KSM. The controller account has a green checkmark next to it. The 'unbond amount' is set to 10.0279 KSM, and the 'on-chain bonding duration' is set to 7 days. A note states: 'The stash and controller pair, here the controller will be used to send the transaction.' Another note says: 'The funds will only be available for withdrawal after the unbonding period, however will not be part of the staked amount after the next validator election. You can follow the unlock countdown in the UI.' At the bottom right of the modal are 'Cancel' and 'Unbond' buttons, with 'Unbond' being circled in green.

3. Follow on-screen instructions carefully.

The stash and controller pair, here the controller will be used to send the transaction.

The funds will only be available for withdrawal after the unbonding period, however will not be part of the staked amount after the next validator election. You can follow the unlock countdown in the UI.

Cancel  Unbond

4. Click on **Unbond** to continue the procedure.

**Nature of the transaction.**

The screenshot shows the Polkadot-JS extension interface for a Kusama node. The top bar displays the node name "kusama/9070" and the number "#8,192,452". The main window title is "authorize transaction". The transaction details are as follows:

- Sending transaction:** staking.unbond(value)
- Description:** Schedule a portion of the stash to be unlocked ready for transfer out after the bond period ends. If this leaves an amount actively bonded less than T::Currency::minimum\_balance(), then it is increased to the full amount.
- Fees:** Fees of 41.6662 micro KSM will be applied to the submission (highlighted with a green box).
- Account:** sending from my account (ANAEILLE LTD@KSM) with a green checkmark.
- Call Hash:** HjcErRijmpoiBiKEHT3edPXH3NFycJogVwDPuByN... (highlighted with a green box).
- Fee Estimation:** 0x04f4bac2282fd711c009122f52b6ace5425ecd3e6797f98f56aee5ded8f7256b
- Fee Selection:** Do not include a tip for the block author (checkbox is off).
- Sign and Submit:** A button with a toggle switch.
- Cancel:** A button with a red X icon.
- Sign and Submit:** A button with a green arrow icon, circled with a green oval.

A green arrow points from the text "Nature of the transaction." to the "staking.unbond queued" status in the top right corner of the transaction details area.

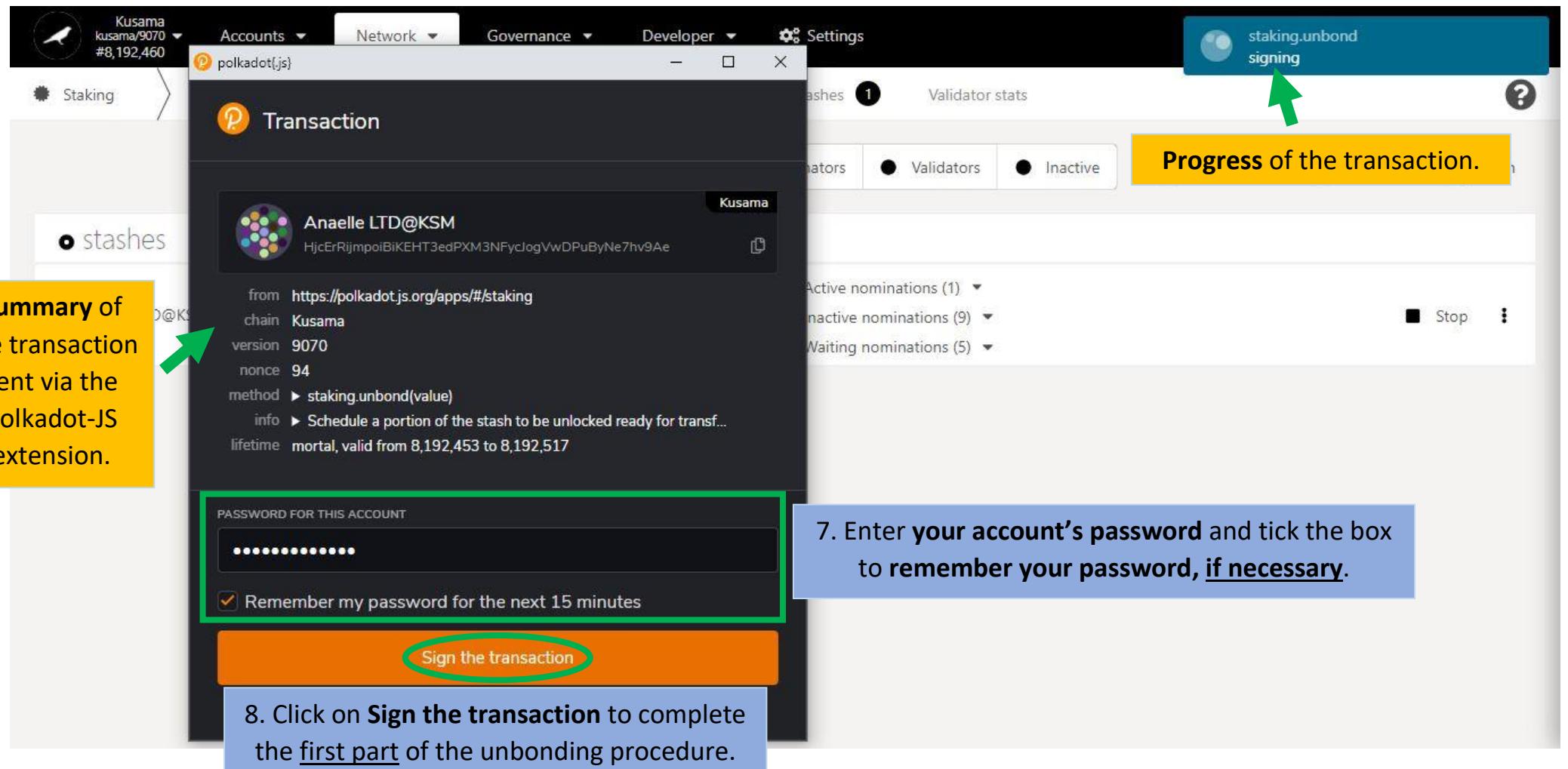
**5. Check the transaction fees.**

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

**6. Click on Sign & submit to continue the procedure.**



9. Your funds have now entered an unbonding period! You will need to wait for 7 days before you can complete the procedure.

10. After 7 days, your unbonded funds  
are now ready to be withdrawn!

The screenshot shows the Polkadot-JS dashboard with a blue header bar containing the text "10. After 7 days, your unbonded funds are now ready to be withdrawn!". Below the header is a navigation bar with links for Governance, Developer, Settings, GitHub, and Wiki. The main content area is titled "stashes" and shows two entries: "ALTD@KSM (EXTENSION)" and "ANAEILLE LTD@KS". Each entry has columns for controller, rewards, and bonded amount. The "ANAEILLE LTD@KS" entry shows "Staked" status, 8.0299 KSM bonded, and 2.0503 KSM unbonded. To the right of the unbonded amount is a small padlock icon. A green arrow points to this padlock icon. On the far right of the row are buttons for "Stop" and more options. Below the table, a callout box contains the instructions: "11. Click on the **padlock icon** to start the second part of the unbonding procedure."

11. Click on the **padlock icon** to start the  
second part of the unbonding procedure.

**Nature of the transaction.**

The screenshot shows the Polkadot-JS extension interface for Kusama. The main title is "authorize transaction". Below it, a message says "Sending transaction staking.withdrawUnbonded(num\_slashing\_spans)". A note below that says "Remove any unlocked chunks from the unlocking queue from our management.". A green box highlights the text "Fees of 40.6663 micro KSM will be applied to the submission". To the right, a blue box contains the transaction details: "staking.withdrawUnbonded queued". A green arrow points from the "Nature of the transaction." text to this box. Below the transaction details, there's a note about sending fees and another about adding a tip. A call hash is also shown. At the bottom, there are "Cancel" and "Sign and Submit" buttons, with "Sign and Submit" being highlighted by a green oval. A blue box labeled "12. Check the transaction fees." is positioned above the transaction details, and another blue box labeled "13. Click on Sign & submit to continue the procedure." is positioned above the "Sign and Submit" button.

authorize transaction

Sending transaction staking.withdrawUnbonded(num\_slashing\_spans)

Remove any unlocked chunks from the unlocking queue from our management.

Fees of 40.6663 micro KSM will be applied to the submission

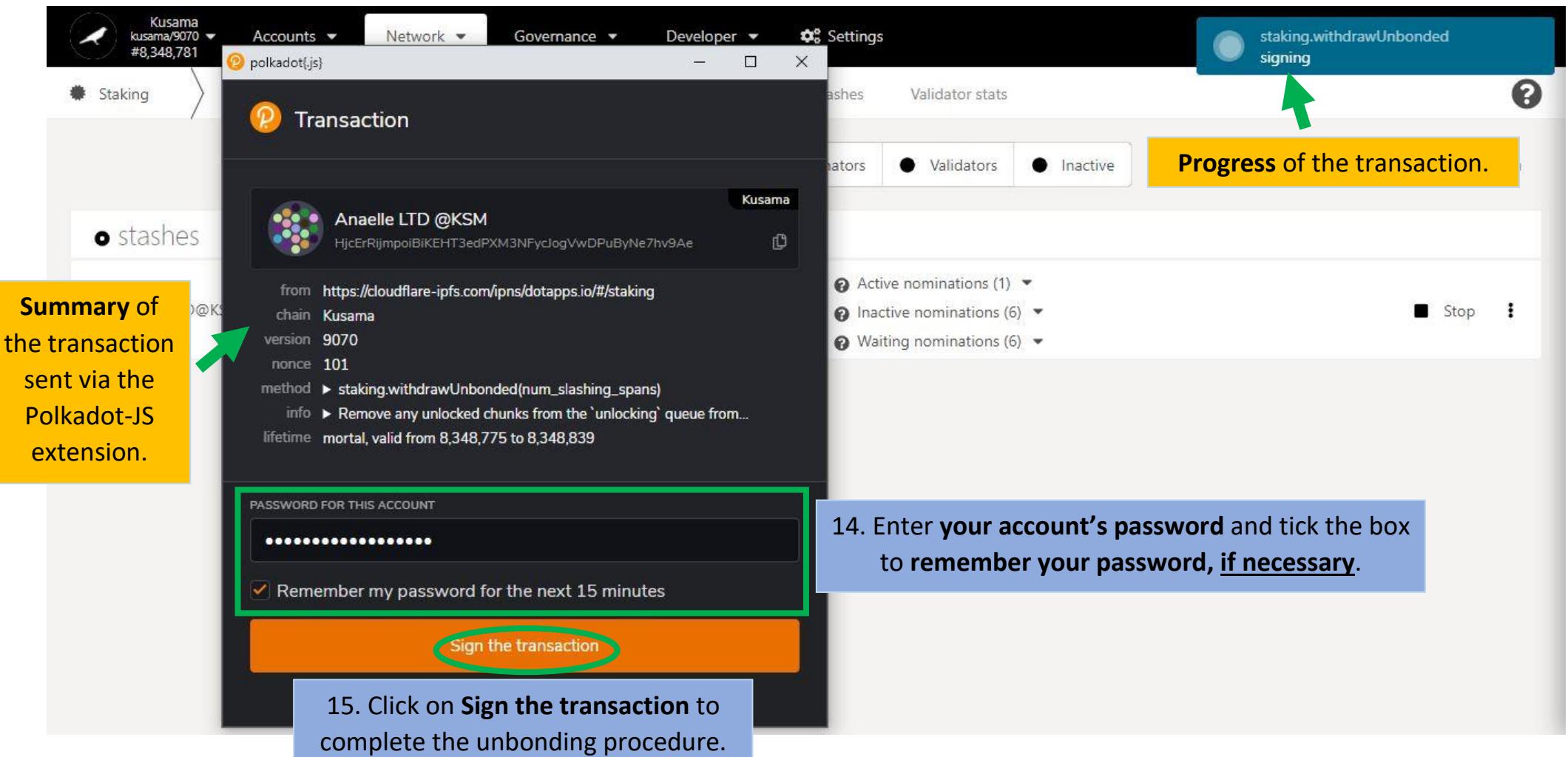
staking.withdrawUnbonded queued

12. Check the transaction fees.

13. Click on Sign & submit to continue the procedure.

## GUIDE TO POLKADOT-JS – PART II: Network

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- Change controller account.

The screenshot shows the Polkadot-JS interface for the Kusama network. The top navigation bar includes links for Accounts, Network (selected), Governance, Developer, Settings, GitHub, and Wiki. Below the navigation is a secondary menu with tabs: Overview, Account actions (selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. A sidebar on the left indicates the user is in the Staking section. The main content area displays a table of stashes. The first row shows a header with columns: stashes, controller, rewards, and bonded. The second row lists two stashes: 'ALTD@KSM (EXTENSION)' and 'ANAEILLE LTD@KS'. For the 'ANAEILLE LTD@KS' stash, it shows status as 'Staked', amount as '10.0279 KSM', and a 'Stop' button with a green arrow pointing to it. To the right of the stashes are dropdown menus for 'Active nominations (1)', 'Inactive nominations (9)', and 'Waiting nominations (5)'. A blue callout box with white text provides instructions: '1. Click on the 3 vertical dots to view Staking settings.' A green arrow points from this text to the three vertical dots icon next to the 'Stop' button.

stashes	controller	rewards	bonded
ALTD@KSM (EXTENSION)	ANAEILLE LTD@KS	Staked	10.0279 KSM

1. Click on the 3 vertical dots to view Staking settings.

## GUIDE TO POLKADOT-JS – PART II: Network

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The screenshot shows the Polkadot-JS Staking interface. At the top, there are tabs: Staking (selected), Overview, Account actions (highlighted in blue), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. Below the tabs are filter buttons: All stashes (selected), Nominators, Validators, Inactive, and buttons to add a Nominator, Validator, or Stash. The main area displays a table of stashes:

controller	rewards	bonded	actions
ALTD@KSM (EXTENSION)	ANAEILLE LTD@KS	Staked 10.0279 KSM	Active nominations (1) Inactive nominations (9) Waiting nominations (5) Stop More options

A green callout box with a numbered step is overlaid on the interface:

1. Click on the controller account to change it.
2. Click on **Change controller account** to set a new controller for this stash.

A green arrow points from the second step to the "Change controller account" option in the dropdown menu.

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The screenshot shows the Polkadot-JS extension interface with the title "change controller account". It displays two accounts:

- stash account**: ALTD@KSM (EXTENSION) - Address: FegWWJq7AiWgkYguRAD796uvNVYburnURpBz7wZ9k...
- controller account**: ALTD@KSM (EXTENSION) - Address: FegWWJq7AiWgkYguRAD796uvNVYburnURpBz7wZ9k...

A yellow warning box contains the text: "⚠️ Distinct stash and controller accounts are recommended to ensure fund security. You will be allowed to make the transaction, but take care to not tie up all funds, only use a portion of the available funds during this period."

At the bottom right, there are "Cancel" and "Set controller" buttons. The "Set controller" button is circled in green.

**4. Double-check warning messages.** (Blue box on the left)

**5. Click on Set controller to continue the procedure.** (Blue box at the bottom)

Nature of the transaction.

The screenshot shows the Polkadot-JS extension interface for a transaction. At the top, it says "authorize transaction". Below that, the transaction details are shown: "Sending transaction staking.setController(controller)" and "(Re-)set the controller of a stash." A green box highlights the fee information: "Fees of 50.3328 micro KSM will be applied to the submission". To the right, a yellow box contains the title "Nature of the transaction." with a green arrow pointing down to the transaction details. The transaction details show the icon for "staking.setController" and the status "queued". Below this, a blue box contains the instruction "6. Check the transaction fees." The rest of the interface shows fields for sending account, call hash, and a "Sign and Submit" button.

authorize transaction

Sending transaction staking.setController(controller)  
(Re-)set the controller of a stash.

Fees of 50.3328 micro KSM will be applied to the submission

sending from my account  
ALTD@KSM (EXTENSION)

Do not include a tip for the block author

call hash  
0xad09c459c66cd2fc0b85240012bcd19e1bec407e2e32222743412fd0b56d3093

Sign and Submit

staking.setController  
queued

The details of the transaction including the type, the description (as available from the chain metadata) as well as parameters and fee estimations (as available) for this type of call.

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

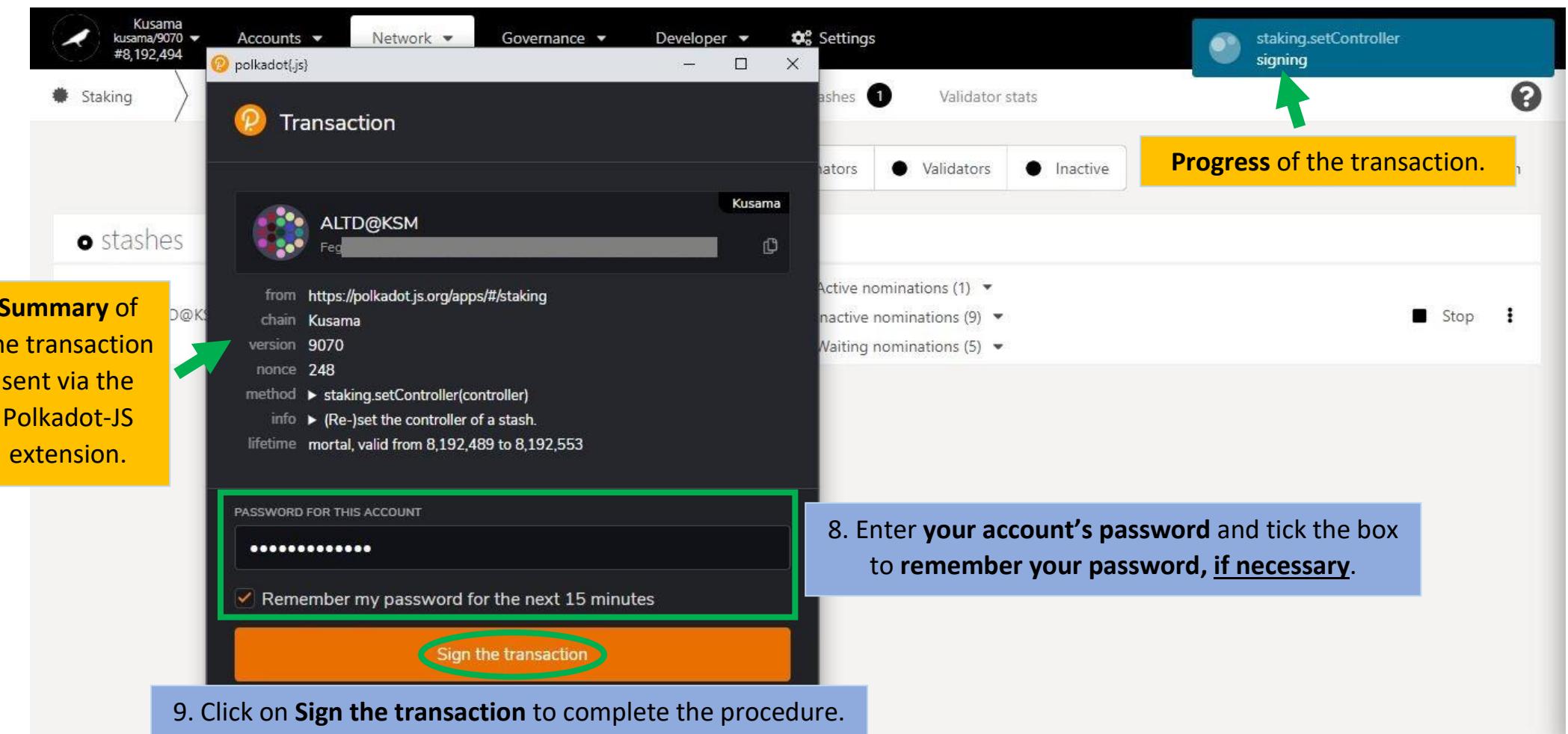
Cancel Sign and Submit

6. Check the transaction fees.

7. Click on **Sign & submit** to continue the procedure.

## GUIDE TO POLKADOT-JS – PART II: Network

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- Change reward destination.

The screenshot shows the Polkadot-JS interface for the Kusama network. The top navigation bar includes links for Accounts, Network (selected), Governance, Developer, Settings, GitHub, and Wiki. Below the navigation is a secondary menu with tabs: Overview, Account actions (selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. A sidebar on the left indicates the user is in the Staking section. The main content area displays a table of stashes. The first row shows a stash with the controller account ALTD@KSM (EXTENSION) and a nomination for ANAELLE LTD@KS. The second row shows a stash with the controller account ANAELLE LTD@KS and a nomination for ANAELLE LTD@KS. The table includes columns for controller, rewards, bonded amount (10.0279 KSM), and nomination status (Active, Inactive, Waiting). On the right side of the table, there are buttons for Nominator, Validator, and Stash creation, and a 'Stop' button. A green arrow points to the three vertical dots icon next to the second stash entry, which is highlighted with a blue callout box containing the instruction: "1. Click on the 3 vertical dots to view Staking settings."

controller	rewards	bonded	
ALTD@KSM (EXTENSION)		10.0279 KSM	Active nominations (1) Inactive nominations (9) Waiting nominations (5)
ANAELLE LTD@KS		10.0279 KSM	Stop

1. Click on the 3 vertical dots to view Staking settings.

## GUIDE TO POLKADOT-JS – PART II: Network

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The screenshot shows the Polkadot-JS Staking interface. At the top, there are tabs: Staking, Overview, Account actions (which is selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. Below the tabs are filters: All stashes (selected), Nominators, Validators, Inactive, and buttons to add a Nominator, Validator, or Stash. The main area displays 'stashes' with columns: controller, rewards, and bonded. It lists two stashes: 'ALTD@KSM (EXTENSION)' and 'ANAEILLE LTD@KS'. For 'ANAEILLE LTD@KS', it shows Staked: 10.0279 KSM, rewards: 10.0279 KSM, and nomination details: Active nominations (1), Inactive nominations (9), and Waiting nominations (5). A 'Stop' button and a more options icon are also present. A green arrow points to the 'Change reward destination' option in a dropdown menu on the right.

2. Click on **Change reward destination** to reset how/where your reward payouts are made.

- Bond more funds
- Unbond funds
- Withdraw unbonded funds
- Change controller account
**Change reward destination** →- Set nominees

**3. Follow on-screen instructions carefully.**

The stash and controller pair as linked. This operation will be performed via the controller.

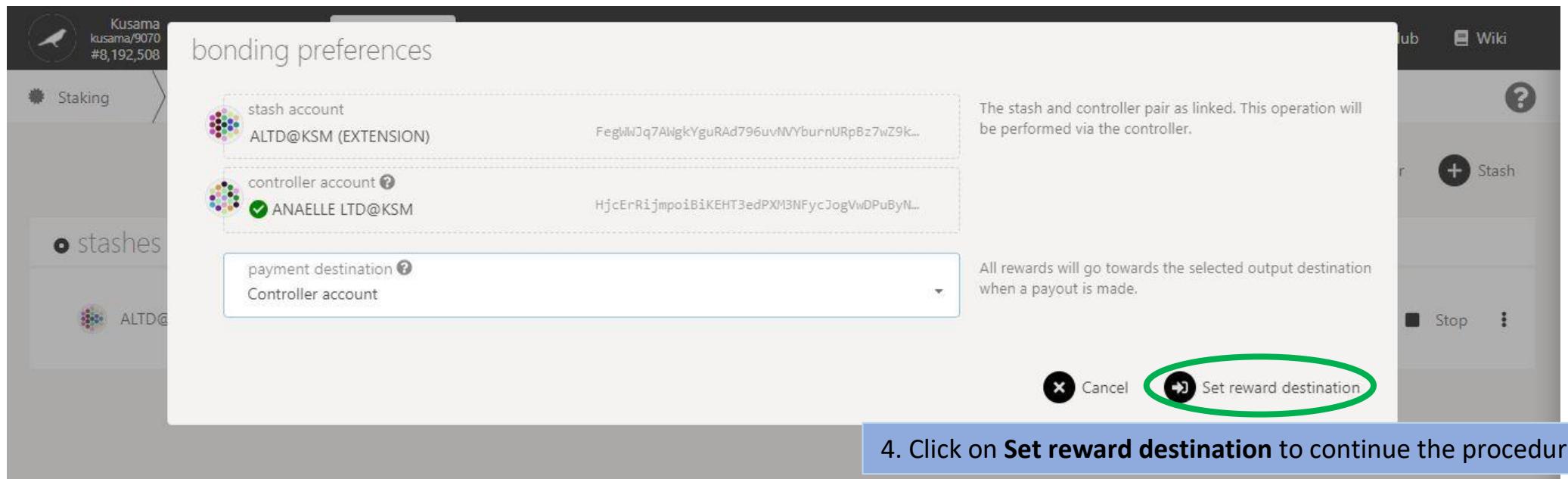
All rewards will go towards the selected output destination when a payout is made.

Cancel Set reward destination

A screenshot of the Polkadot-JS extension interface. At the top, it shows a Kusama node with address kusama/9070 #8,192,502. Below that, under the 'Staking' tab, is a section titled 'bonding preferences'. It lists two accounts: 'stash account' ALTD@KSM (EXTENSION) and 'controller account' ANAELLE LTD@KSM. A dropdown menu is open over the controller account section, listing four options: 'Stash account (increase the amount at stake)', 'Stash account (do not increase the amount at stake)', 'Controller account', and 'Specified payment account'. The first option is highlighted. To the right of the dropdown, there is a callout box with a green border containing the text: 'The stash and controller pair as linked. This operation will be performed via the controller.' and 'All rewards will go towards the selected output destination when a payout is made.' At the bottom right of the callout box are 'Cancel' and 'Set reward destination' buttons. The overall background is dark grey, and the UI elements are white or light grey with some color-coded icons like the green checkmark for the selected option.

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Nature of the transaction.

The screenshot shows the Polkadot-JS extension interface for a Kusama node. The top bar displays the node name "kusama/9070" and the block number "#8,192,513". The main title is "authorize transaction" under the "Staking" tab. The transaction details are for "staking.setPayee(payee)" with the description "(Re-)set the payment target for a controller." A green box highlights the fee information: "Fees of 39.6663 micro KSM will be applied to the submission". Below this, the "sending from my account" section shows "ANAEILLE LTD@KSM" with a checkmark. The "call hash" is listed as "0x6fbf3cd12bb63dcf99c2dcb627080fb80d9dfa0d27962c5b20c5d8351ae18cab". There is an option to "Do not include a tip for the block author" with a toggle switch. At the bottom, there are "Sign and Submit" and "Cancel" buttons, with "Sign and Submit" being circled in green. A blue box at the top right says "Nature of the transaction." with a green arrow pointing to the transaction type "staking.setPayee queued". Another blue box at the bottom right says "6. Click on Sign & submit to continue the procedure." with a green arrow pointing to the "Sign and Submit" button.

authorize transaction

Sending transaction staking.setPayee(payee)  
(Re-)set the payment target for a controller.

Fees of 39.6663 micro KSM will be applied to the submission

sending from my account  
ANAEILLE LTD@KSM

HjccErRijmpoiBIKEHT3edPXH3NFycJogVwDPuByN...

Do not include a tip for the block author

call hash  
0x6fbf3cd12bb63dcf99c2dcb627080fb80d9dfa0d27962c5b20c5d8351ae18cab

Sign and Submit  Cancel **Sign and Submit**

staking.setPayee queued

The details of the transaction including the type, the description (as available from the chain metadata) as well as meters and fee estimations (as available) for this type of call.

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

**6. Click on Sign & submit to continue the procedure.**

## GUIDE TO POLKADOT-JS – PART II: Network

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The screenshot shows the Polkadot.js extension interface for the Kusama network. A transaction titled "staking.setPayee signing" is in progress, indicated by a green arrow pointing to the status bar. The transaction summary on the left details the action: from https://polkadot.js.org/apps/#/staking, chain Kusama, version 9070, nonce 94, method staking.setPayee(payee), info (Re-)set the payment target for a controller, and lifetime mortal, valid from 8,192,513 to 8,192,577. A yellow box labeled "Progress of the transaction." highlights the status bar. A blue box labeled "7. Enter your account's password and tick the box to remember your password, if necessary." points to the password input field and the "Remember my password for the next 15 minutes" checkbox. A green box labeled "8. Click on Sign the transaction to complete the procedure." points to the orange "Sign the transaction" button.

**Summary of the transaction sent via the Polkadot-JS extension.**

from https://polkadot.js.org/apps/#/staking  
chain Kusama  
version 9070  
nonce 94  
method ► staking.setPayee(payee)  
info ► (Re-)set the payment target for a controller.  
lifetime mortal, valid from 8,192,513 to 8,192,577

PASSWORD FOR THIS ACCOUNT  
.....  
 Remember my password for the next 15 minutes

**Sign the transaction**

**Progress of the transaction.**

**7. Enter your account's password and tick the box to remember your password, if necessary.**

**8. Click on Sign the transaction to complete the procedure.**

- Set nominees.

The screenshot shows the Polkadot-JS web interface for the Kusama network. The top navigation bar includes links for Accounts, Network (selected), Governance, Developer, Settings, GitHub, and Wiki. Below the navigation is a secondary menu with tabs: Overview, Account actions (selected), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. A sidebar on the left indicates the user is in the Staking section. The main content area displays a table of stashes. The first row shows a stash with controller 'ALTD@KSM (EXTENSION)', rewards '0', bonded amount '10.0279 KSM', and nomination status 'Active nominations (1)'. The second row shows a stash with controller 'ANAEILLE LTD@KS', rewards '0', bonded amount '10.0279 KSM', and nomination status 'Inactive nominations (9)'. A green arrow points to the three vertical dots next to the second row, which is highlighted with a blue box containing the instruction: '1. Click on the 3 vertical dots to view Staking settings.'

stash	controller	rewards	bonded	nomination status
ALTD@KSM (EXTENSION)		0	10.0279 KSM	Active nominations (1)
ANAEILLE LTD@KS		0	10.0279 KSM	Inactive nominations (9)

1. Click on the 3 vertical dots to view Staking settings.

## GUIDE TO POLKADOT-JS – PART II: Network

Version 1.0

The screenshot shows the Polkadot-JS Staking interface. At the top, there are tabs: Staking (selected), Overview, Account actions (highlighted with a blue border), Payouts, Targets, Waiting, Slashes (with a notification count of 1), and Validator stats. Below the tabs are filters: All stashes (selected), Nominators, Validators, Inactive, and buttons to add a Nominator, Validator, or Stash. The main area displays 'stashes' with columns: controller, rewards, and bonded. Two stashes are listed: ALTD@KSM (EXTENSION) and ANAELLE LTD@KS. For the ANAELLE LTD@KS stash, it shows 10.0279 KSM bonded. To the right of the stashes are dropdown menus for Active nominations (1), Inactive nominations (9), and Waiting nominations (5). A modal window is open on the right side with the following options:

- Bond more funds
- Unbond funds
- Withdraw unbonded funds
- Change controller account
- Change reward destination
- Set nominees** (this option is highlighted with a green arrow)

A callout box with a green arrow points to the "Set nominees" option in the modal.

2. Click on **Set nominees** to change your current selection of validators.

The screenshot shows the Polkadot-JS Staking interface with the 'nominate validators' tab selected. At the top, it displays the stash account (ALTD@KSM) and controller account (ANAELE LTD@KSM). Below this, two columns show 'candidate accounts' and 'nominated accounts'. The 'candidate accounts' column lists several validators, with the first one, JCghFN..KhPGez, highlighted by a green arrow. The 'nominated accounts' column lists validators that have been selected, each marked with a green checkmark. A green box highlights the 'nominated accounts' column. In the bottom right corner, there are 'Cancel' and 'Nominate' buttons.

**3. Follow the new instructions carefully.**

The stash that is to be affected. The transaction will be sent from the associated controller account.

Nominators can be selected manually from the list of all currently available validators.

Once transmitted the new selection will only take effect in 2 eras taking the new validator election cycle into account. Until then, the nominations will show as inactive.

**4. Click on 10-16 validators' names or addresses to add them to your selection.**

**5. Double-check warning messages.**

**⚠️ You should trust your nominations to act competently and honestly; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.**

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Version 1.0

The screenshot shows the Polkadot-JS Staking interface with the 'nominate validators' step highlighted. The top navigation bar includes 'Accounts', 'Network', 'Coverage', 'Developers', 'Settings', 'GitHub', and 'Wiki'. On the left, a sidebar shows 'Staking' and 'stashes' sections, with 'ALTD@...' selected. The main area displays the 'nominate validators' form. It includes fields for 'stash account' (ALTD@KSM (EXTENSION)) and 'controller account' (ANAELE LTD@KSM), both with their respective addresses. A 'filter by name, address...' input field is present. Below these are two lists: 'candidate accounts' (ALLNODES/41, SHOTMAKER/0, STAKE-OPS/1, ALLNODES/43, JACKFLASH/FORKLESSNATION) and 'nominated accounts' (MANTRADAQ, EARNSTASH/03, SHAWN/04, ICEBERG NODES/V1, MELANGE). A green box highlights the 'nominated accounts' list. A yellow warning box at the bottom left states: '⚠ You should trust your nominations to act competently and honest; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.' At the bottom right are 'Cancel' and 'Nominate' buttons, with 'Nominate' circled in green. To the right of the main form, explanatory text provides details about stash and controller accounts, nomination selection, and the effect of transmission.

nominate validators

stash account  
ALTD@KSM (EXTENSION)  
controller account  
ANAELE LTD@KSM

filter by name, address...

candidate accounts

- ALLNODES/41
- SHOTMAKER/0
- STAKE-OPS/1
- ALLNODES/43
- JACKFLASH/FORKLESSNATION

nominated accounts

- MANTRADAQ
- EARNSTASH/03
- SHAWN/04
- ICEBERG NODES/V1
- MELANGE

⚠ You should trust your nominations to act competently and honest; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.

The stash that is to be affected. The transaction will be sent from the associated controller account.

Nominators can be selected manually from the list of all currently available validators.

Once transmitted the new selection will only take effect in 2 eras taking the new validator election cycle into account. Until then, the nominations will show as inactive.

Cancel Nominate

**6. Double-check your selection of validators.**

**7. Click on Nominate to continue the procedure.**

**Nature of the transaction.**

authorize transaction

Sending transaction `staking.nominate(targets)`  
Declare the desire to nominate targets for the origin controller.

Fees of 105.6656 micro KSM will be applied to the submission

8. Check the transaction fees.

The details of the transaction including the type, the description (as available from the chain metadata) as well as parameters and fee estimations (as available) for this type of call.

sending from my account  
ANAEILLE LTD@KSM

HjcErRijmpoiBiKEHT3edPXIM3NFycJogVwDPuByN...

Do not include a tip for the block author

call hash  
0x387b5a8c224730a6e029b53f87ef8c92d60880bb073d5329d4f2939e9c09864d

Sign and Submit

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

Cancel **Sign and Submit**

9. Click on **Sign & submit** to continue the procedure.

**JACKFLASH/FORKLESSNATION** **MELANGE**

**⚠️** You should trust your nominations to act competently and honest; basing your decision purely on their current profitability could lead to reduced profits or even loss of funds.

**Cancel** **Nominate**

## GUIDE TO POLKADOT-JS – PART II: Network

Version 1.0

The screenshot shows the Polkadot.js extension window for the Kusama network. The main title bar says "polkadot.js". The top navigation bar includes "Accounts", "Network", "Governance", "Developer", and "Settings". A blue header bar on the right says "staking.nominate signing". The left sidebar has "Staking" selected. The main content area is titled "Transaction" and shows a transaction from "Anaelle LTD@KSM" with the following details:

- from: https://polkadot.js.org/apps/#/staking
- chain: Kusama
- version: 9070
- nonce: 94
- method: ▶ staking.nominate(targets)
- info: ▶ Declare the desire to nominate 'targets' for the origin controller.
- lifetime: mortal, valid from 8,192,555 to 8,192,619

To the right of the transaction details, a yellow box contains the text "Progress of the transaction." with a green arrow pointing to the "staking.nominate signing" bar. On the far left, a yellow box contains the text "Summary of the transaction sent via the Polkadot-JS extension." with a green arrow pointing to the transaction details. At the bottom of the extension window, there is a password input field with a redacted password and a checkbox labeled "Remember my password for the next 15 minutes". Below this is a large orange button labeled "Sign the transaction".

**10. Enter your account's password and tick the box to remember your password, if necessary.**

**11. Click on Sign the transaction to complete the procedure.**

## c) Check payouts from recent eras.

1. Click Payouts.

Time left for validators to send the reward payouts.  
Note: Most validators will send the reward payouts within a day.

2. Click on Payout (all) to immediately receive rewards from your validator(s).

payout/stash	eras	own	remaining
ALTD@KSM (EXTENSION)	2,434	0.0010 KSM	20 days 18 hrs
		0.0010 KSM	
payout/validator	eras	own	remaining
JACKFLASH/FORKLESSNATION	2,434	0.0010 KSM	20 days 18 hrs
		0.0010 KSM	

## d) Check nomination targets.

1. Click Targets.

total staked  
5.4360 MKSM 48%

returns  
15.4%

lowest / avg staked  
4,184 / 6,040 KSM 69%

last reward  
571.7473 KSM

Key information on staking targets: **average returns, amount staked, and amounts rewarded.**

Most profitable      Nominate selected

Next session      Produced blocks      Online message      Nominating      Oversubscribed      Slashed      Blocks nominations

filter by name, address or index

single from operator      no 20%+ comm      no at capacity      recent payouts      only elected      only with an identity

validators       nominators

nominators	comm.	total stake	own stake	return
53	1079	0.00%	5,201.0601 KSM	53.2691 KSM 17.85%
40	992	0.00%	5,201.1276 KSM	52.2532 KSM 17.85%
38	396	0.00%	5,204.0231 KSM	10.1186 KSM 17.84%
35	1135	0.00%	5,205.6390 KSM	55.0159 KSM 17.83%

2. Switch the **filters ON or OFF** to display your **targeted data**.

Ex: You can choose to view only validators who take <20% commission and are not full.

This validator is in your **current selection of validators**.

3. Scan through validators' data and **compare it to your staking targets**.

5. Click on **Nominate selected** to replace your current list of validators with a new selection.  
 Note: If you do not select your current active validator, it will be removed!

You can click **Most profitable** to automatically select the top 16 rewarders.

			nominators	comm.	total stake	own stake	return		
★	11	ALLNODES/41	53	1079	0.00%	5,201.0601 KSM	53.2691 KSM	17.85%	<input checked="" type="checkbox"/> 
★	12	SHOTMAKER/0	40	992	0.00%	5,201.1276 KSM	52.2532 KSM	17.85%	<input checked="" type="checkbox"/> 
★	15	STAKE-OPS/1	38	396	0.00%	5,204.0231 KSM	10.1186 KSM	17.84%	<input type="checkbox"/> 
★	17	MELANGE	35	1135	0.00%	5,205.6390 KSM	55.0159 KSM	17.83%	<input checked="" type="checkbox"/> 

4. Tick the box to select **10-16 validators** that match your staking targets.

e) Check the list of waiting validators.

1. Click Waiting.

The screenshot shows the Polkadot-JS Staking interface. At the top, there is a navigation bar with tabs: Accounts, Network, Governance, Developer, Settings, GitHub, and Wiki. Below the navigation bar, there is a sub-navigation bar for Staking with tabs: Overview, Account actions, Payouts, Targets, Waiting (which is underlined), Slashes (with a notification badge '1'), and Validator stats. There are also several status indicators: Next session, Produced blocks (5), Online message, Nominating, Oversubscribed, Slashed, and Blocks nominations. A search bar is present with the placeholder "filter by name, address or index". A toggle switch is set to "only with an identity". On the left, there is a section titled "intentions" listing various validators with their logos and names: TWINNET/STASH, KEEPNODE/HYDROGEN, JACO/V37, ZUG CAPITAL/82, RYABINA/[44] T.ME/KUSAMA\_BOT, JACO/V36, and RYABINA/[47] T.ME/KUSAMA\_BOT. On the right, there is a table titled "nominators" showing the number of nominations and commission for each validator. The table has columns: nominators, commission, and PS. The PS column contains icons with a green arrow pointing to the last one. A yellow box at the bottom states: "Number of nominations backing each unelected validator."

nominators	commission	PS
Nominations (10)	10.00%	
Nominations (134)	2.00%	
Nominations (34)	2.00%	
Nominations (21)	2.50%	
Nominations (47)	3.00%	
Nominations (26)	2.00%	
Nominations (22)	3.00%	

Number of nominations backing each unelected validator.

f) Check the list of slashed validators.

1. Click Slashes.

Key information on staking slashes: **validators & nominators concerned, time frames, amount.**

era 2,426      ✓ Cancel selected      ✓ Cancel all

reporters	own	other	total	payout	
Nominators (1)	EZu6BF...RowHPr	0.0005 KSM	0.0858 KSM	0.0864 KSM	0.0043 KSM

2. Click on the slashed validator's name to view a summary of its account.

3. Click on the dropdown arrow to view slashed nominators' information.

All amount slashed are used to **fund the Treasury**.

era 2426/unapplied      BIT CAT/N2

g) Check the statistics of individual validators.

1. Click Validator stats.

Kusama  
kusama/9070 #8,196,117

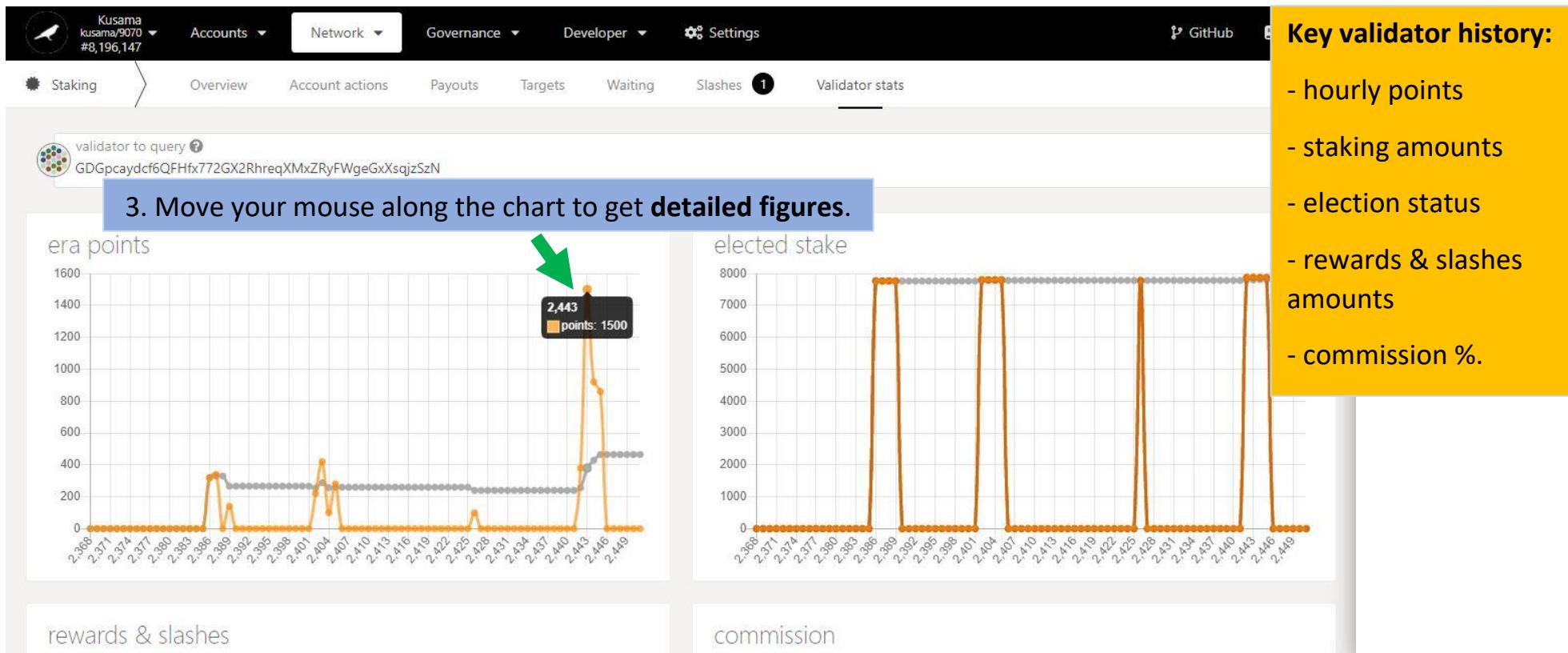
Accounts Network Governance Developer Settings

Staking Overview Account actions Payouts Targets Waiting Slashes 1 Validator stats

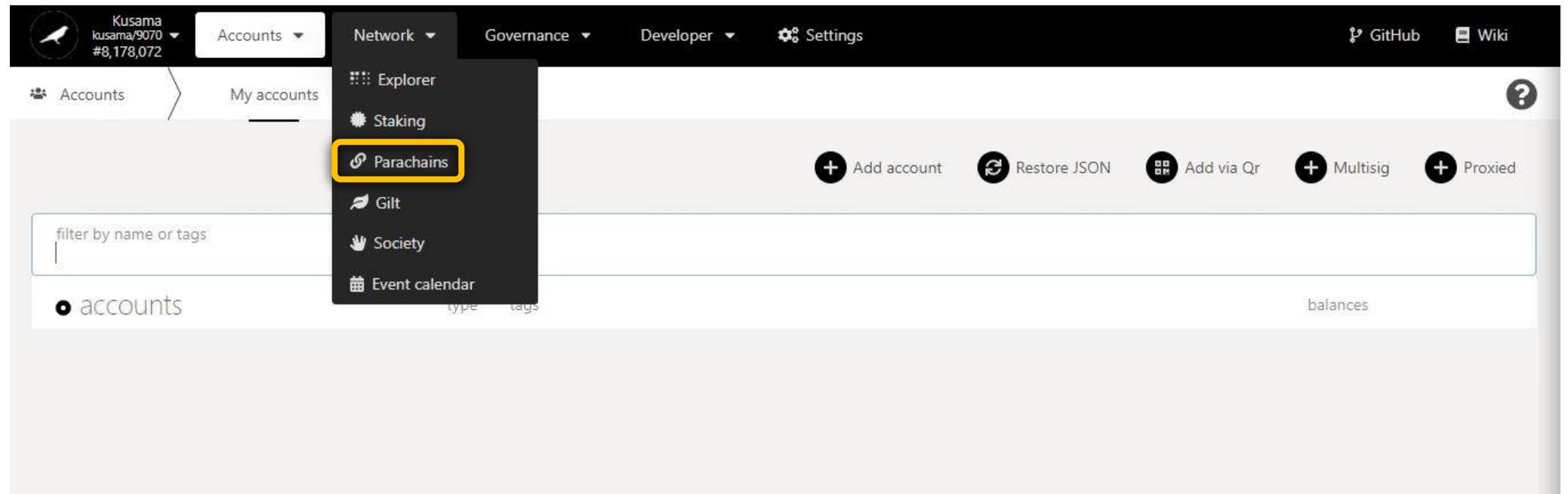
validator to query ?  
GDGpcaydcf6QFHfx772GX2RreqXMxZRyFWgeGxXsqjzSzN

Github Wiki

2. Enter/Paste the **address of a validator**, then click the **arrow** to view the validator's information.



### 3. Parachains: Explore parachain-related activities.



a) View general parachain information.

The screenshot shows the Polkadot.js Network Overview page for the Kusama network. At the top, there are navigation tabs: Accounts, Network (selected), Governance, Developer, and Settings. Below the tabs, a yellow banner reads: "Key information on parachains: waiting parathreads, current lease period's ID, and lease period's duration." The main statistics are displayed in a row: 4 parachains, 16 parathreads, current lease 13, lease period 42 days (16 days 32 mins), 61% finalized 8,236,474, epoch 1 hr (8 mins 42 s), and 85% leases.

**Parachains or Parathreads?**

	included	backed	timeout	chain	in/out (msg)	leases
12 s	8,236,475	8,236,476		274,757 statemine/1	0 (0) 0 (0)	13 - 23 436 days 32 mins
6 s	8,236,476	8,236,475		92,217 karura/1002	0 (0) 0 (0)	13 - 20 310 days 32 mins
6 s	8,236,476	8,236,475		3,878 shiden/1	0 (0) 0 (0)	13 - 20 310 days 32 mins
12 s	8,236,475	8,236,476		54,486 moonriver/53	0 (0) 0 (0)	13 - 20 310 days 32 mins

**Parachains summary:**

- **Included:** Blocks produced by parachain collators.
- **Backed:** Blocks validated by relay chain (para)validators.
- **Chain:** Parachain runtime (chain spec) versions.
- **In/Out (msg):** Cross-chain messages sent/received by the parachain.
- **Leases:** Lease period IDs allocated to the parachain (when it obtained a slot) and their total duration (in days and minutes).

**Registered ParalIDs.**

**Registered names.**

## b) View onboarded parachains.

1. Click Parathreads.

Kusama  
kusama/9070  
#8,236,482

Accounts Network Governance Developer Settings GitHub Wiki

Parachains Overview Parathreads Auctions Crowdloan

2. Click ParalID to register your network as a parathread.

parathreads	Registered names.	lifecycle	Parachains or Parathreads?	leases
2,001 Bifrost	LIEBI TECH	Parathread		None Deregister
2,004 Khala Network	DaEJPY...VPeIvv...	Parathread		None Deregister
2,006 Darwinia Crab Redire...	CoxPms..MxXqZ9	Parathread		None Deregister
2,008 Mars	ARESLAB	Parathread		None Deregister
2,009 PolkaSmith by Polka...	POLKAFOUNDRY	Parathread		None Deregister

Registered ParalIDs.

Addresses of currently registered parathreads.

NEVER SEND YOUR KSM TO A PARATHREAD'S ADDRESS!

Lease period IDs obtained.

## c) View auctions' progress.

1. Click **Auctions**.

**Key information on auctions: auction number, activity, lease period IDs, and timings.**

auctions: 4 active: yes first - last: 13 - 20

Countdown to auction's end period  
(during which the winning bid will be determined).  
end period at #8,251,581  
1 day 1 hr

**bids**  
latest: 2,004 bidder: Khala Network F3opxR...CSn4SK

crowdloan: Yes leases: 13 - 20 value: 56,678.9716 KSM

Is there a crowdloan campaign associated to this bid?

Address(es) of current bidder(s).  
**NEVER SEND YOUR KSM TO A BIDDER'S ADDRESS!**

**Targeted lease period IDs.**

**KSM amount submitted for this bid.**

2. Check the latest bid(s) included in recent blocks.

## d) View and contribute to crowdloans.

## 1. Click Crowdloan.

Kusama  
kusama/9070 #8,221,932

Accounts Network Governance Developer Settings

Parachains Overview Parathreads Auctions Crowdloan

**Key information on crowdloans: active funds, and KSM amount locked in funds.**

funds 17 active raised / cap 281,579 / 11.3760 MKSM 2%

total raised / cap 988,652 / 13.8760 MKSM 7%

## 2. Double-check warning messages.

Do not transfer any funds directly to a specific account that is associated with a loan or a team. Use the "Contribute" action to record the contribution on-chain using the crowdloan runtime module. When the fund is dissolved, after either the parachain lease expires or the loan ending without winning, the full value will be returned to your account by the runtime. Funds sent directly to an account, without using the crowdloan functionality, may not be returned by the receiving account.

● ongoing			ending	leases	raised	count	
2,001	Bifrost	Active	17 days 46 mins #8,467,200	13 - 20	46,849.3914 / 1.0000 MKSM 4.68%	519	<a href="#">+ Contribute</a> <a href="#">Homepage</a>
2,004	Khala Network	Active	17 days 46 mins #8,467,200	13 - 20	42,028.3202 / 1.0000 MKSM 4.20%	1,838	<a href="#">+ Contribute</a> <a href="#">Homepage</a>
2,006	Darwinia Crab Redire...	Active	17 days 46 mins #8,467,200	13 - 20	2,867.5209 / 1.0000 MKSM 0.28%	346	<a href="#">+ Contribute</a> <a href="#">Homepage</a>

Time left to fund a crowdloan and win an auction.

## 3. Click Contribute to lend your KSM to a fund.

KSM amount raised by each fund **out of its total desired cap.**

Minimum crowdloan contribution is **0.1 KSM**.

contribute to fund

Kusama  
kusama/9070  
#8,221,940

Parachains

Wiki

4. Follow on-screen instructions carefully.

This account will contribute to the crowdloan.

The amount to contribute from this account.

The above contribution should more than minimum contribution amount and less than the remaining value.

contribute from  
ANAELE LTD@KSM

contribution  
1

KSM

minimum allowed  
99.9999 milli

remaining till cap  
997.1324 Kilo

ongoing

Cancel + Contribute

5. Click on **Contribute** to continue the procedure.

Nature of the transaction.

The screenshot shows the Polkadot-JS extension interface for Kusama. At the top, it displays the chain name 'kusama/9070 #8,221,947'. Below this, the title 'authorize transaction' is shown. The main content area contains the following information:

- Sending transaction `crowdloan.contribute(index, value, signature)`
- Contribute to a crowd sale. This will transfer some balance over to fund a parachain slot. It will be withdrawable when the crowdloan has ended and the funds are unused.
- Fees of 42.3329 micro KSM will be applied to the submission
- sending from my account: ANAELLE LTD@KSM
- Call hash: 0x09c05aac9441af106de92d8b299e185fec796f762748469558374edb331343a3
- Do not include a tip for the block author: A toggle switch is set to off.
- Sign and Submit: A button with a switch, currently set to off.
- Cancel: A button with a crossed-out arrow icon.
- Sign and Submit: A button with a right-pointing arrow icon, circled in green.
- Contribute: A button with a plus sign icon.

A green arrow points from the text 'Nature of the transaction.' to the 'Sign and Submit' button.

## 6. Check the transaction fees.

The details of the transaction including the type, the description (as available from the chain metadata) as well as any parameters and fee estimations (as available) for

type of call.

The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.

Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.

The call hash as calculated for this transaction

## 7. Click on **Sign & submit** to continue the procedure.

The screenshot shows the Polkadot.js extension interface. On the left, a sidebar displays 'Parachains' and 'funds 17'. A yellow box highlights the text: 'Summary of the transaction sent via the Polkadot-JS extension.' A green arrow points from this text to the transaction details in the center. The main area shows a transaction for 'Anaelle LTD@KSM' with the following details:

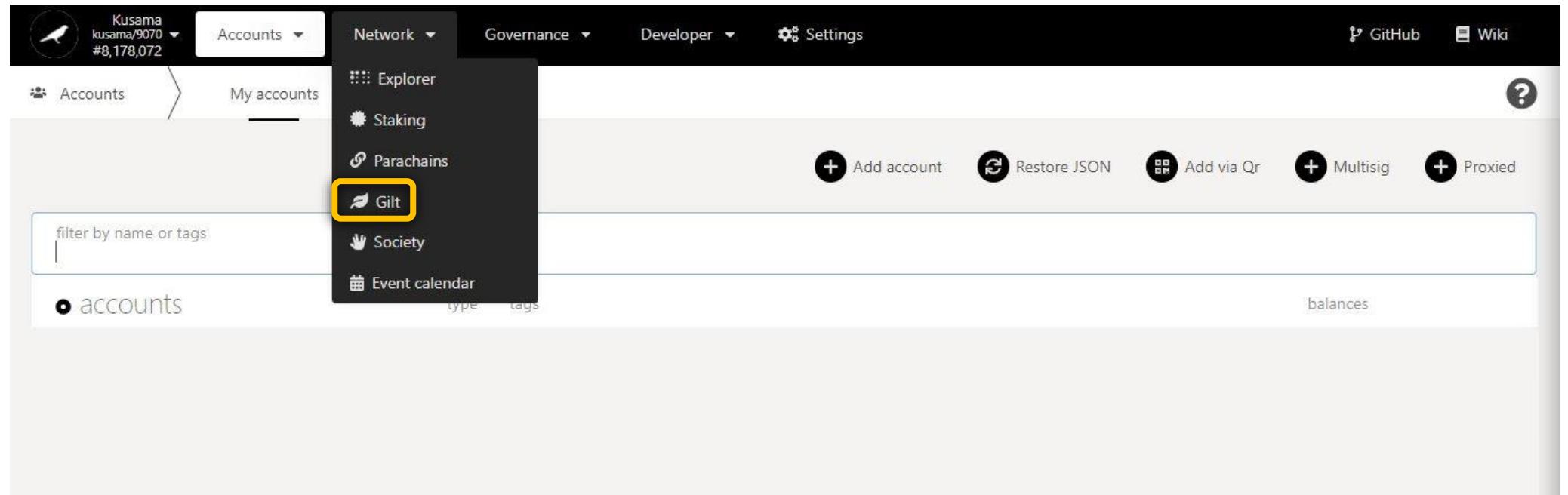
- from: https://polkadot.js.org/apps/#/parachains/crowdloan
- chain: Kusama
- version: 9070
- nonce: 94
- method: crowdloan.contribute(index, value, signature)
- info: Contribute to a crowd sale. This will transfer some balance over...
- lifetime: mortal, valid from 8,221,948 to 8,222,012

A password input field is shown with the placeholder 'PASSWORD FOR THIS ACCOUNT' and a redacted password. A checkbox labeled 'Remember my password for the next 15 minutes' is checked. Below the password field is a large orange button with the text 'Sign the transaction' circled in green. To the right, a progress bar indicates the transaction is 'signing'. A yellow box contains the text 'Progress of the transaction.' with a green arrow pointing to the progress bar.

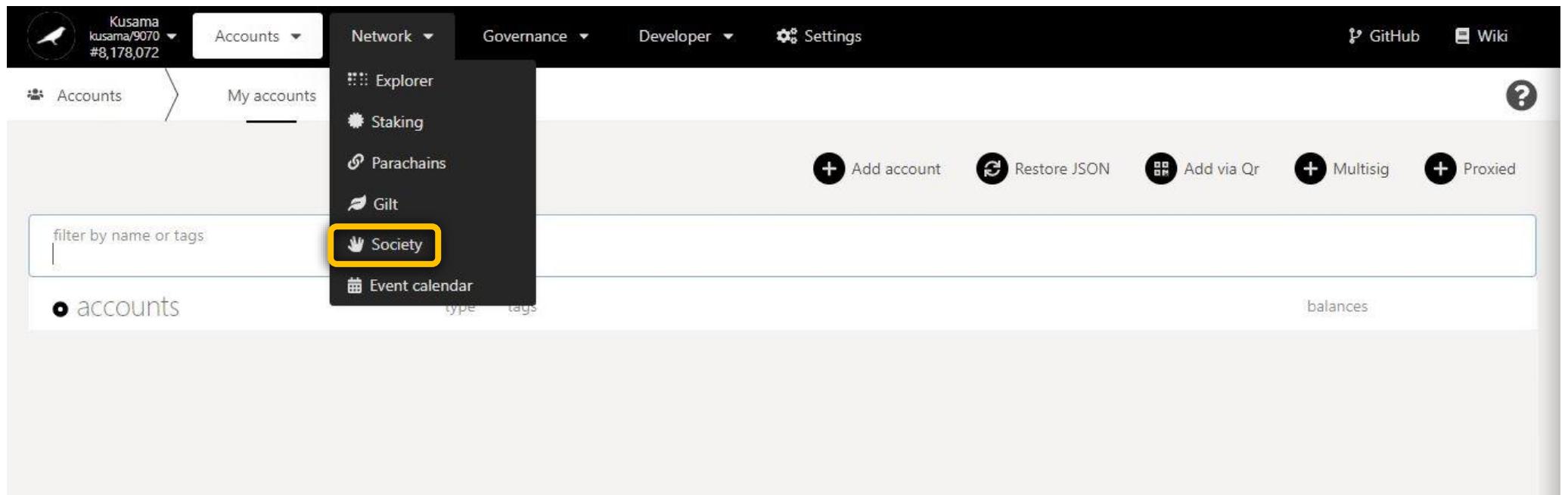
**8. Enter your account's password and tick the box to remember your password, if necessary.**

**9. Click on Sign the transaction to complete the procedure.**

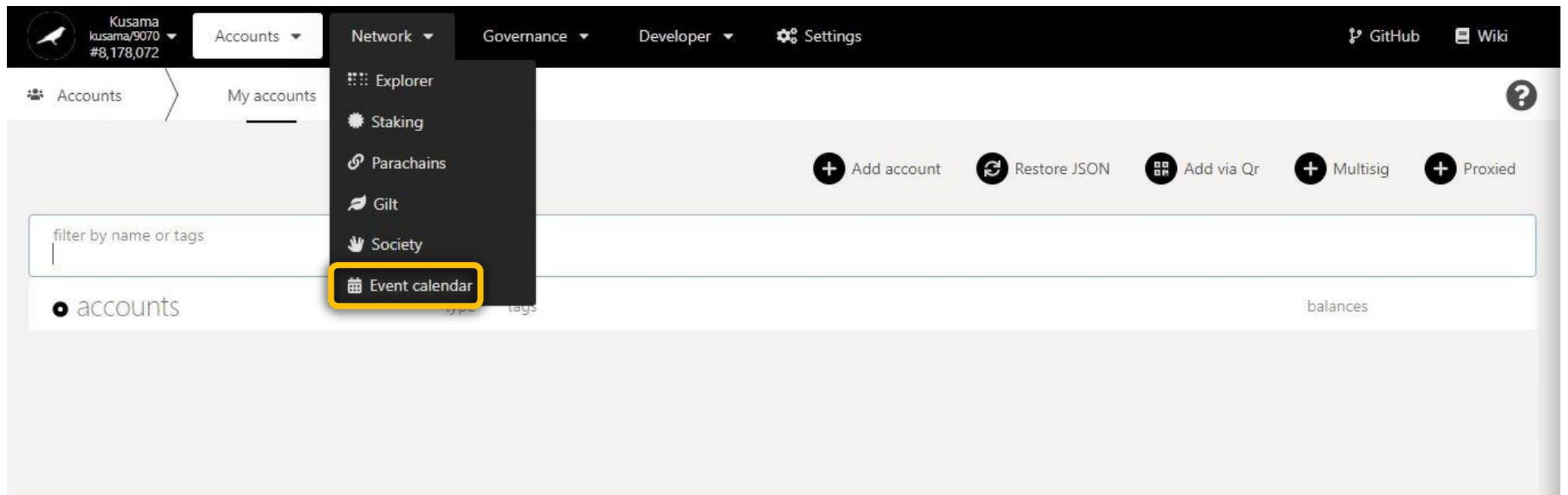
#### 4. Gilt: View and participate in auctions for inflation-protected KSM derivatives. [TBC]



## 5. Society: View and participate in *Kappa Sigma Mu* activities. [TBC]



## 6. Event calendar: Browse upcoming Relay chain events.



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Version 1.0

The screenshot shows the Polkadot.js Network interface. At the top, there's a navigation bar with a Kusama icon, account information ("kusama/9070 #8,492,490"), and links for Accounts, Network (selected), Governance, Developer, and Settings. To the right are GitHub and Wiki links.

The main area is titled "Upcoming events". A yellow box highlights the text: "Key information on upcoming events: date, time, block number, description, and module." Below this, a calendar for July 2021 is displayed. The 26th is highlighted with a green arrow pointing to it. The day view for July 26, 2021, at 14:28 (block #8,493,075) shows two events: "Start of a new staking session 14,507 via Staking" and "Start of a new staking era 2,536 via Staking".

1. Click on a day to view its events.

0 AM	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	13 PM	14 PM	15 PM	16 PM	

14:28 #8,493,075 Start of a new staking session 14,507 via Staking

15:28 #8,493,675 Start of a new staking era 2,536 via Staking

## GUIDE TO POLKADOT-JS – PART II: Network

Version 1.0

The screenshot shows the Polkadot-JS Apps interface. At the top, there's a navigation bar with links for 'Accounts', 'Network' (which is currently selected), 'Governance', 'Developer', and 'Settings'. Below the navigation bar is a header with the network name 'Kusama' and account information 'kusama/9070 #8,492,498'. On the left, there's an 'Event calendar' section showing the month of July 2021. The date '27' is highlighted with a green circle. To the right, the main area displays 'Upcoming events' for July 27, 2021. A specific event is listed: '00:37 #8,513,567 Potential dispatch of referendum 125 (if passed) via Democracy'. A large blue callout box with the text '2. Click on the module to switch view on Polkadot-JS Apps.' has a green arrow pointing to the 'Settings' icon in the top right corner of the event card.

2. Click on the **module** to switch view on *Polkadot-JS Apps.*