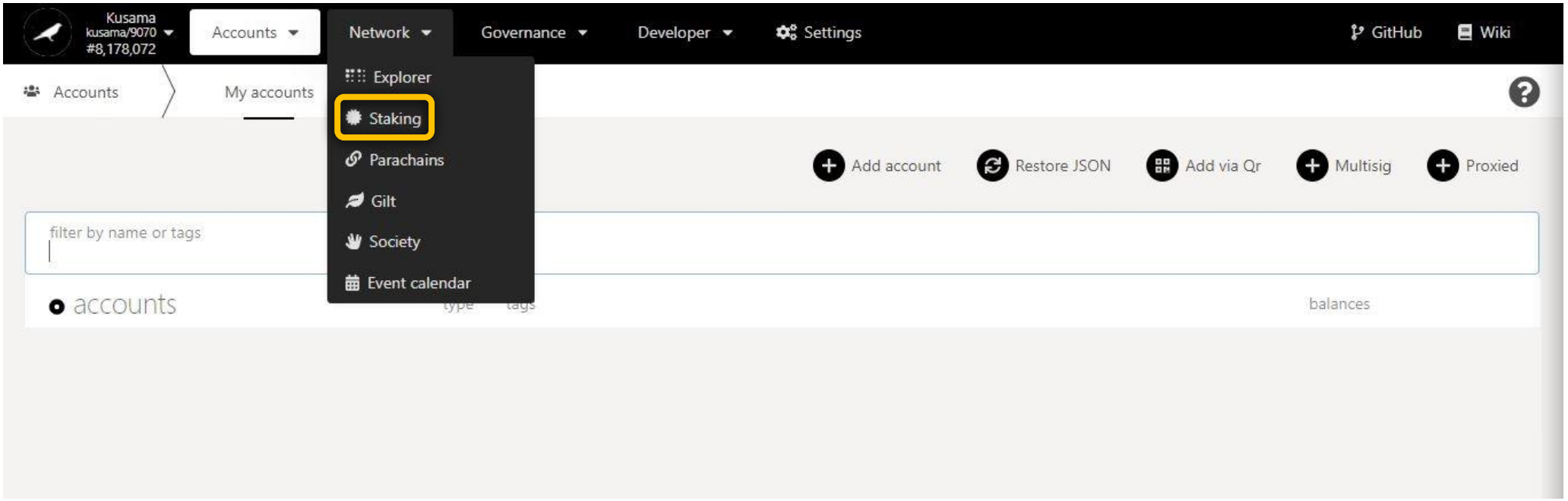
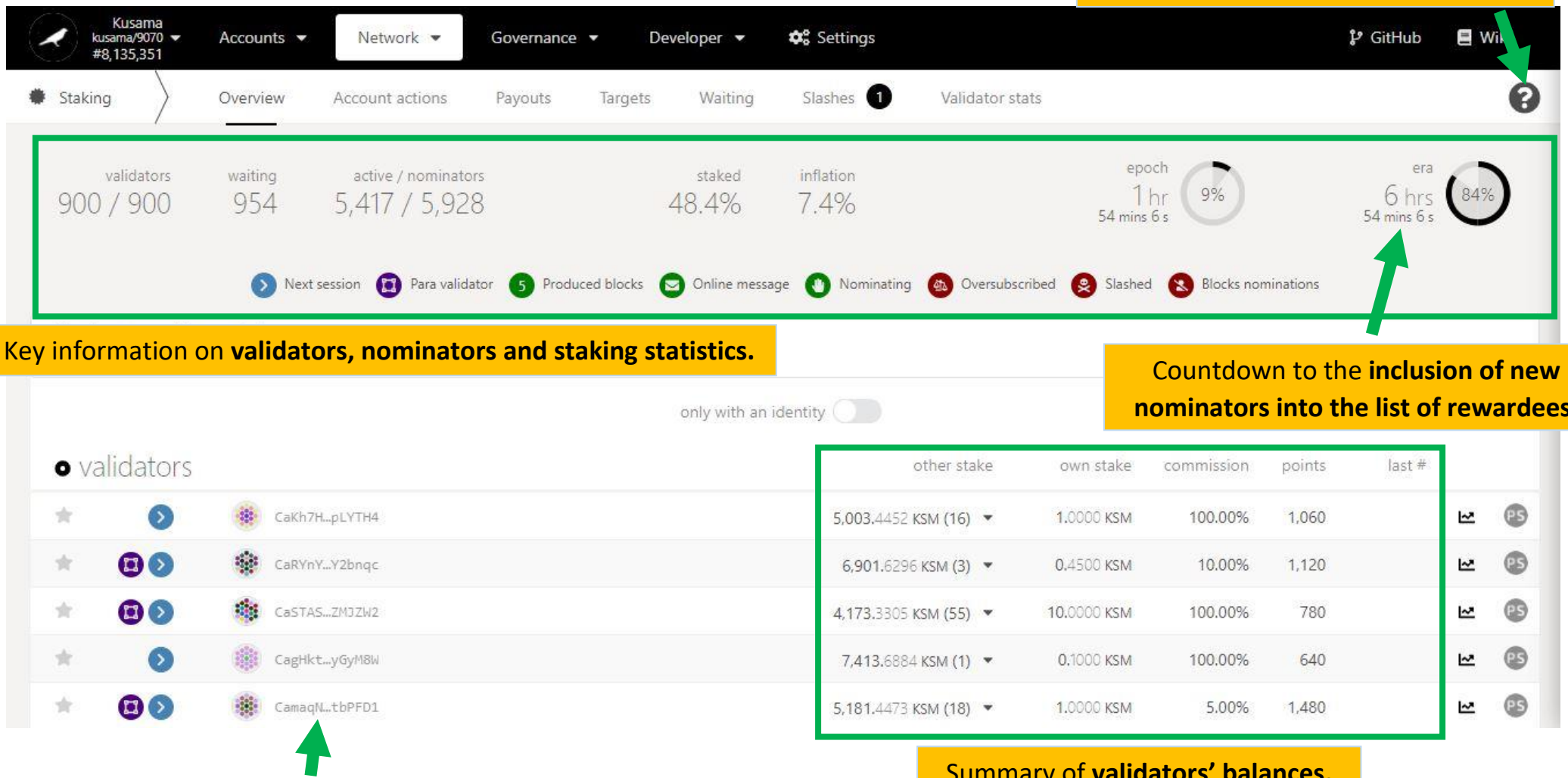
PART II: NETWORK

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**.

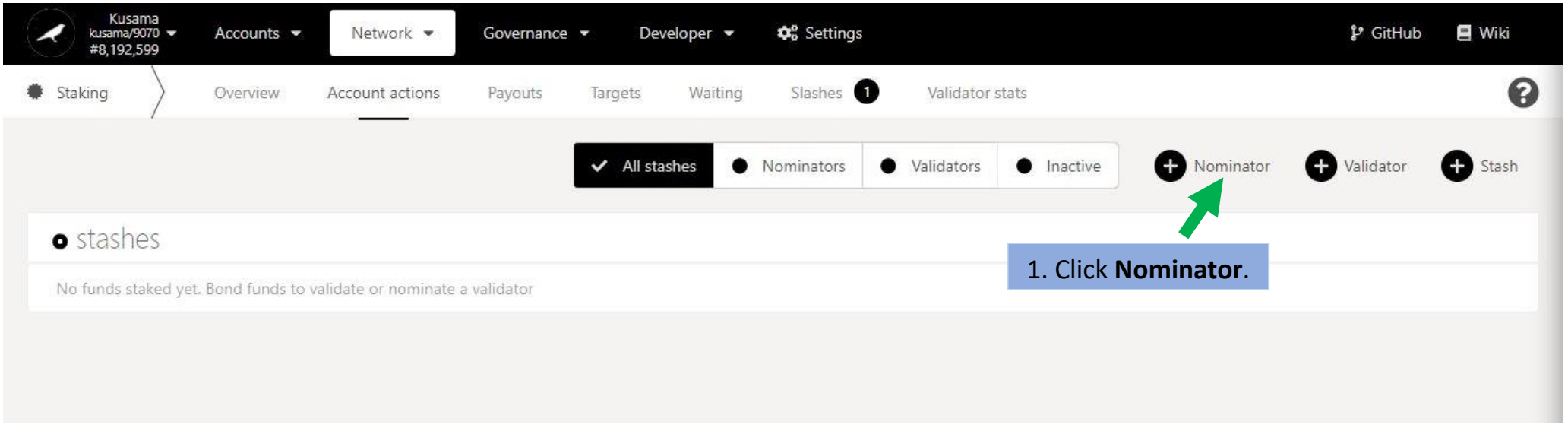
Addresses of **currently elected validators**.

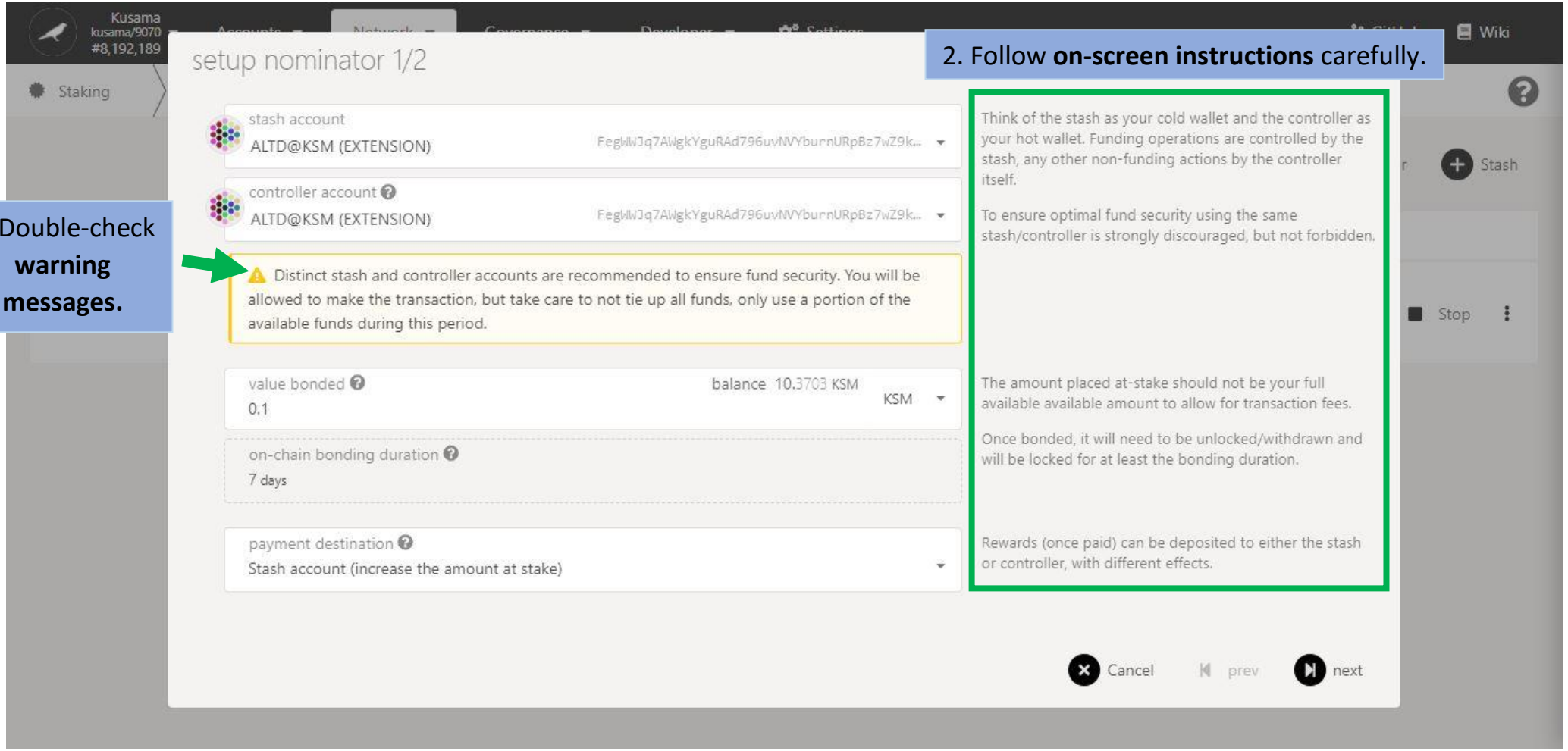
NEVER SEND YOUR KSM TO A VALIDATOR'S ADDRESS!

Summary of **validators' balances, commissions, and performance.**

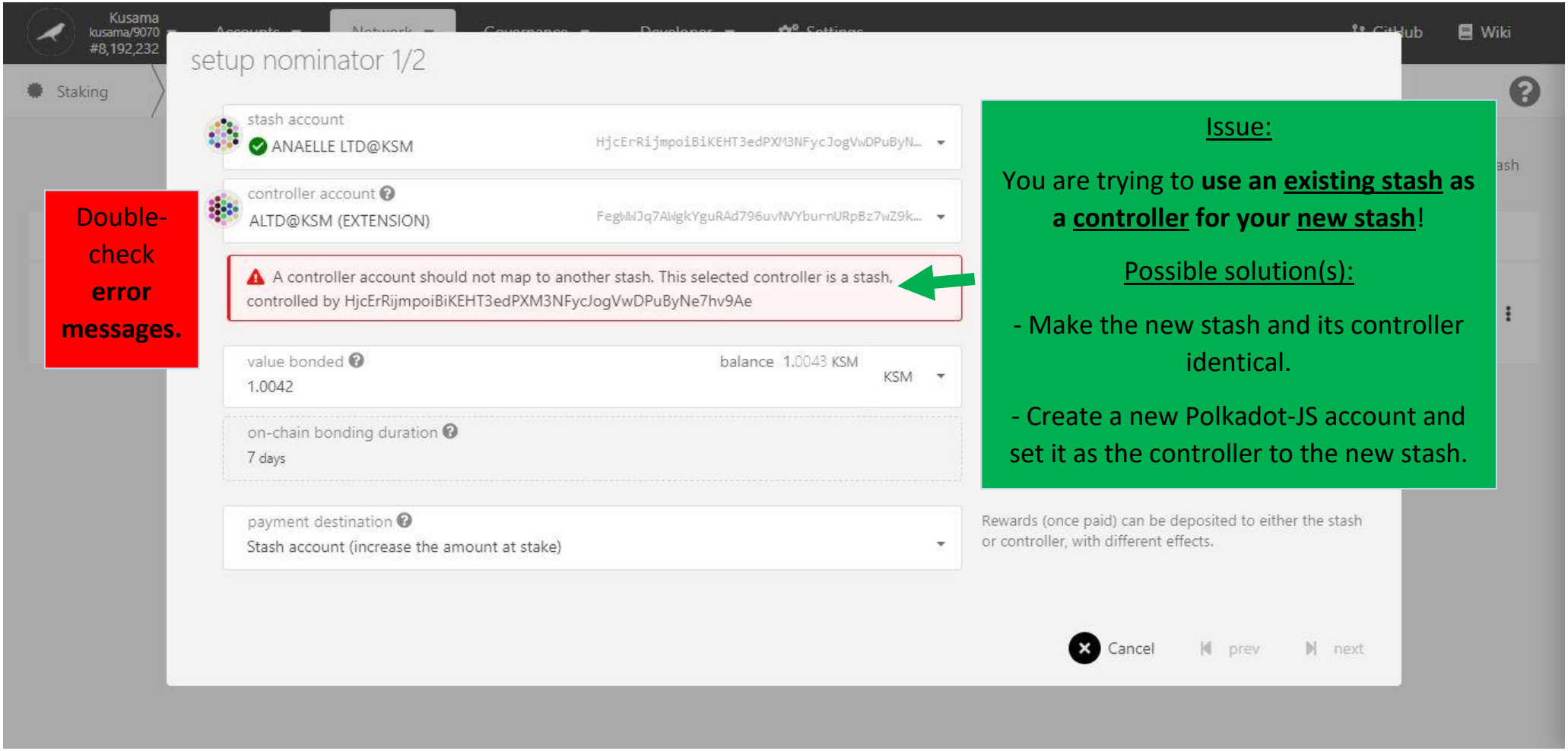
b) Manage account nominations:

- Set nominators.

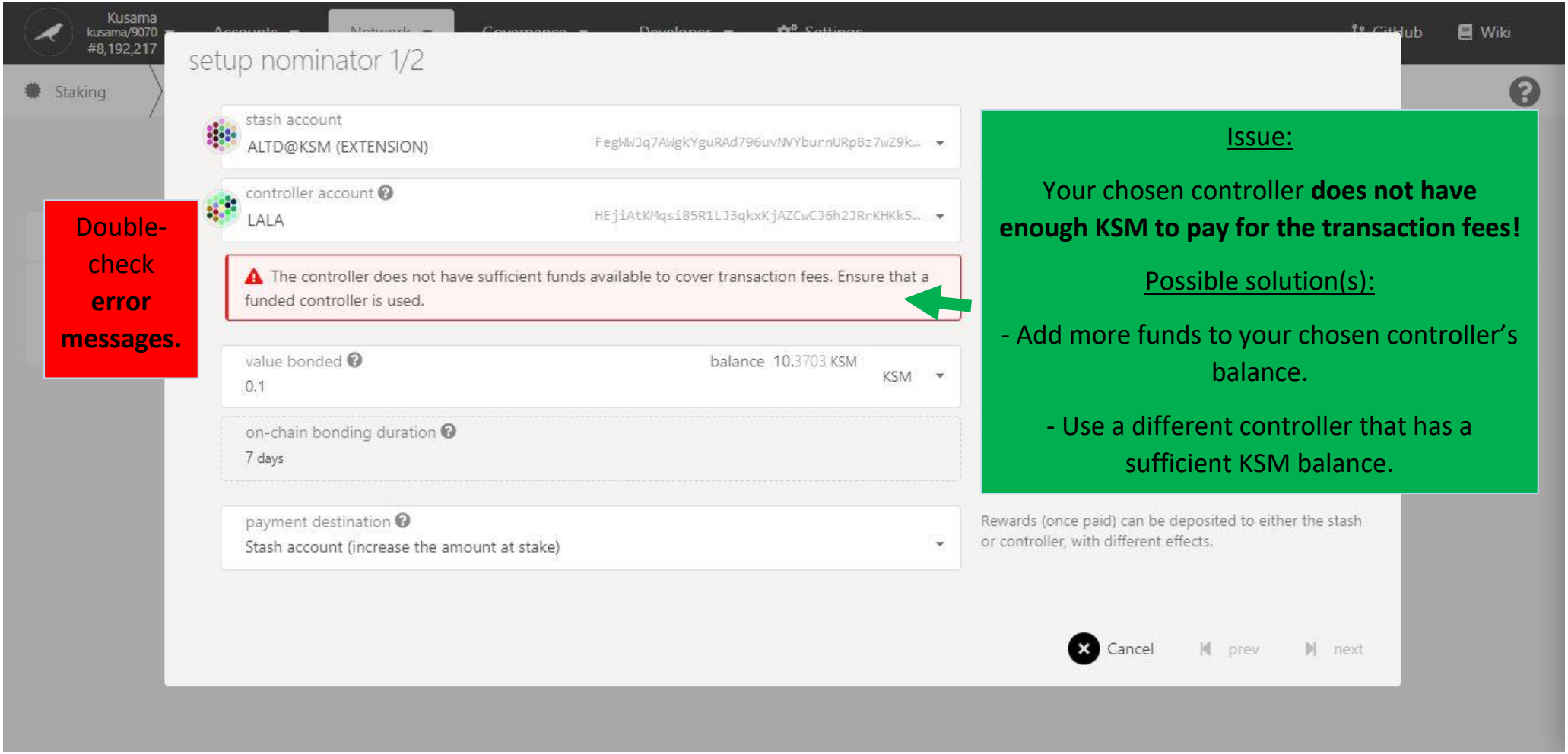



Kusama
kusama/9070
#8,192,189
Wiki
Staking
setup nominator 1/2
2. Follow **on-screen instructions** carefully.
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
controller account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
3. Double-check **warning messages.**
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
balance 10.3703 KSM
0.1
KSM
on-chain bonding duration
7 days
payment destination
Stash account (increase the amount at stake)
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.
Cancel
prev
next
Stash
Stop

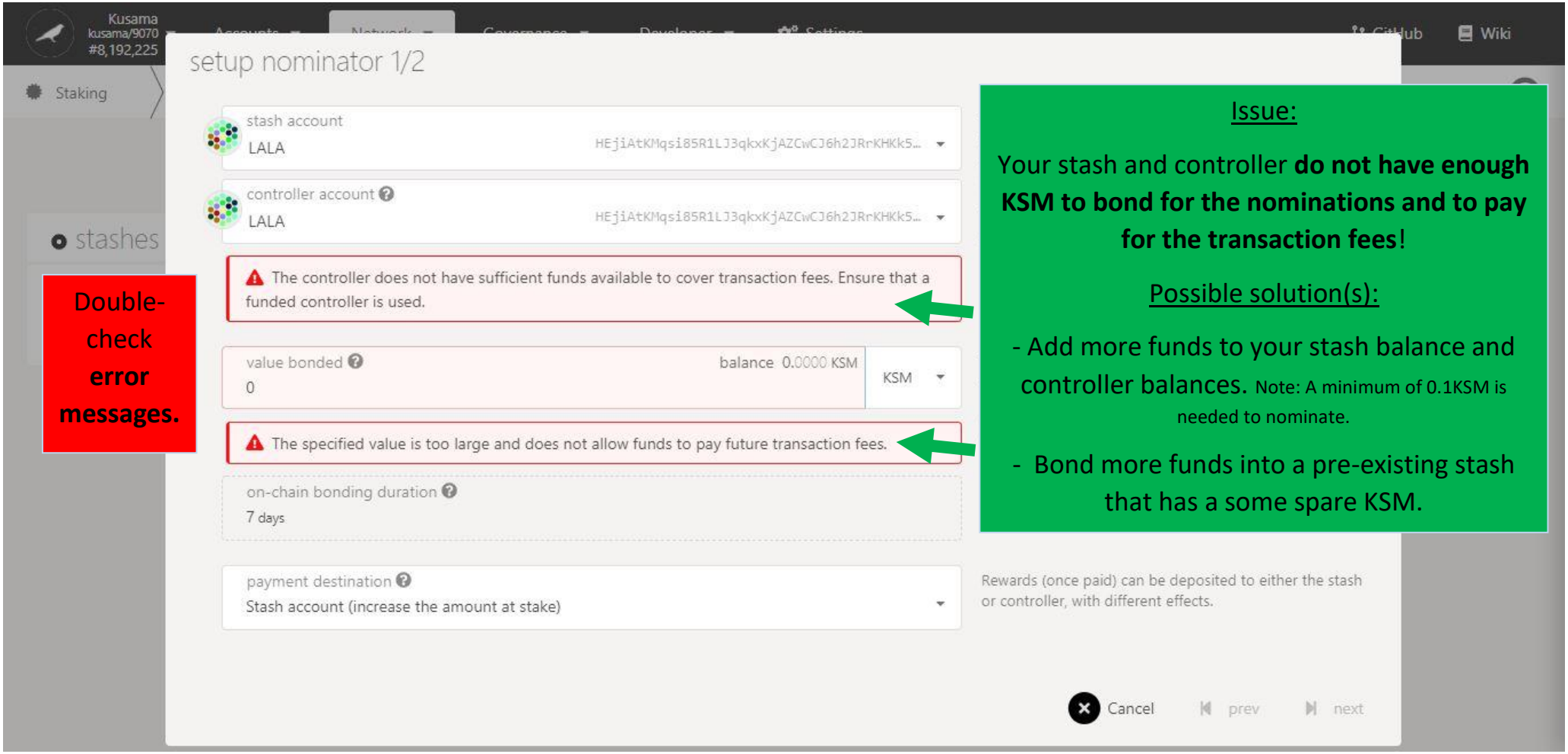
[Troubleshooting 1/4]



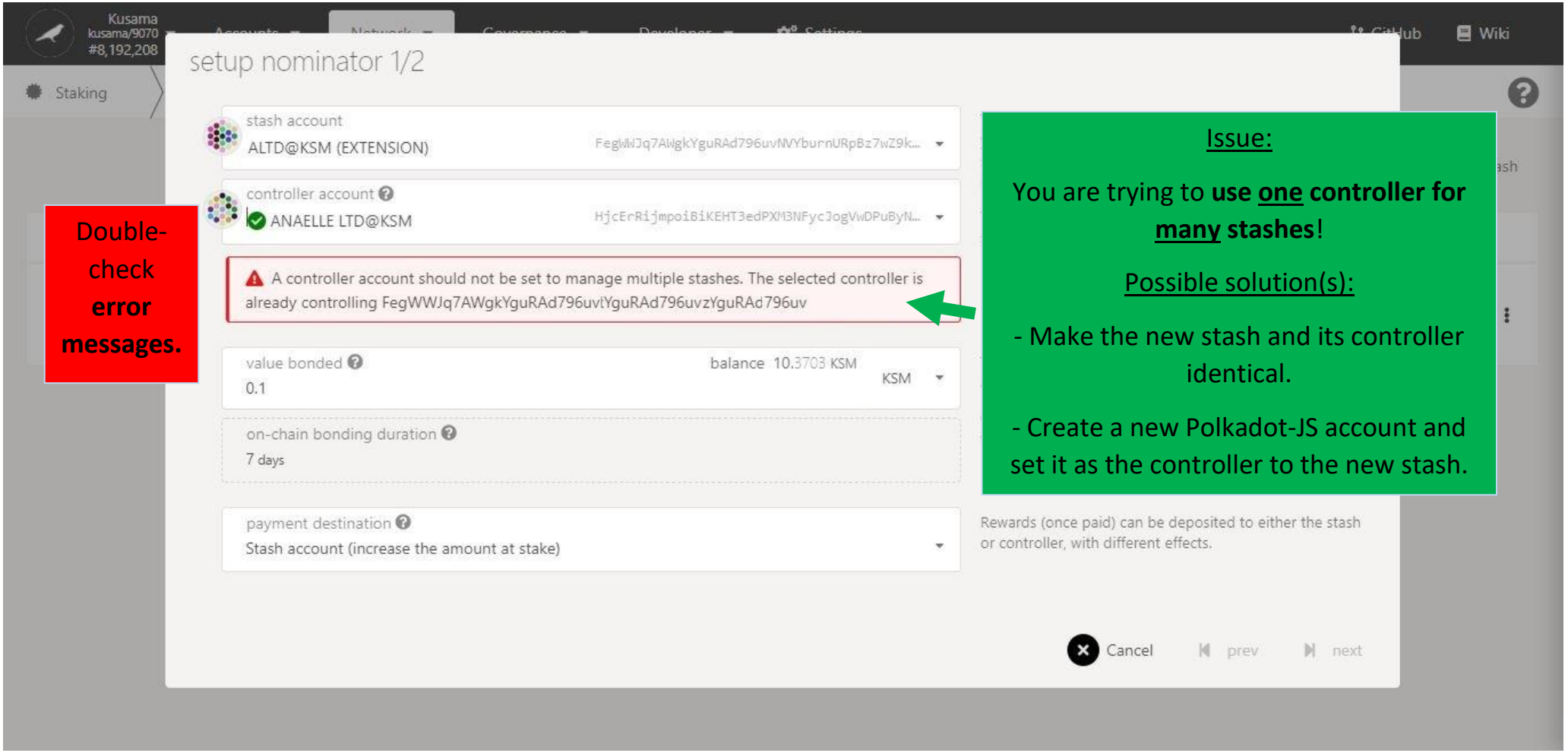
[Troubleshooting 2/4]

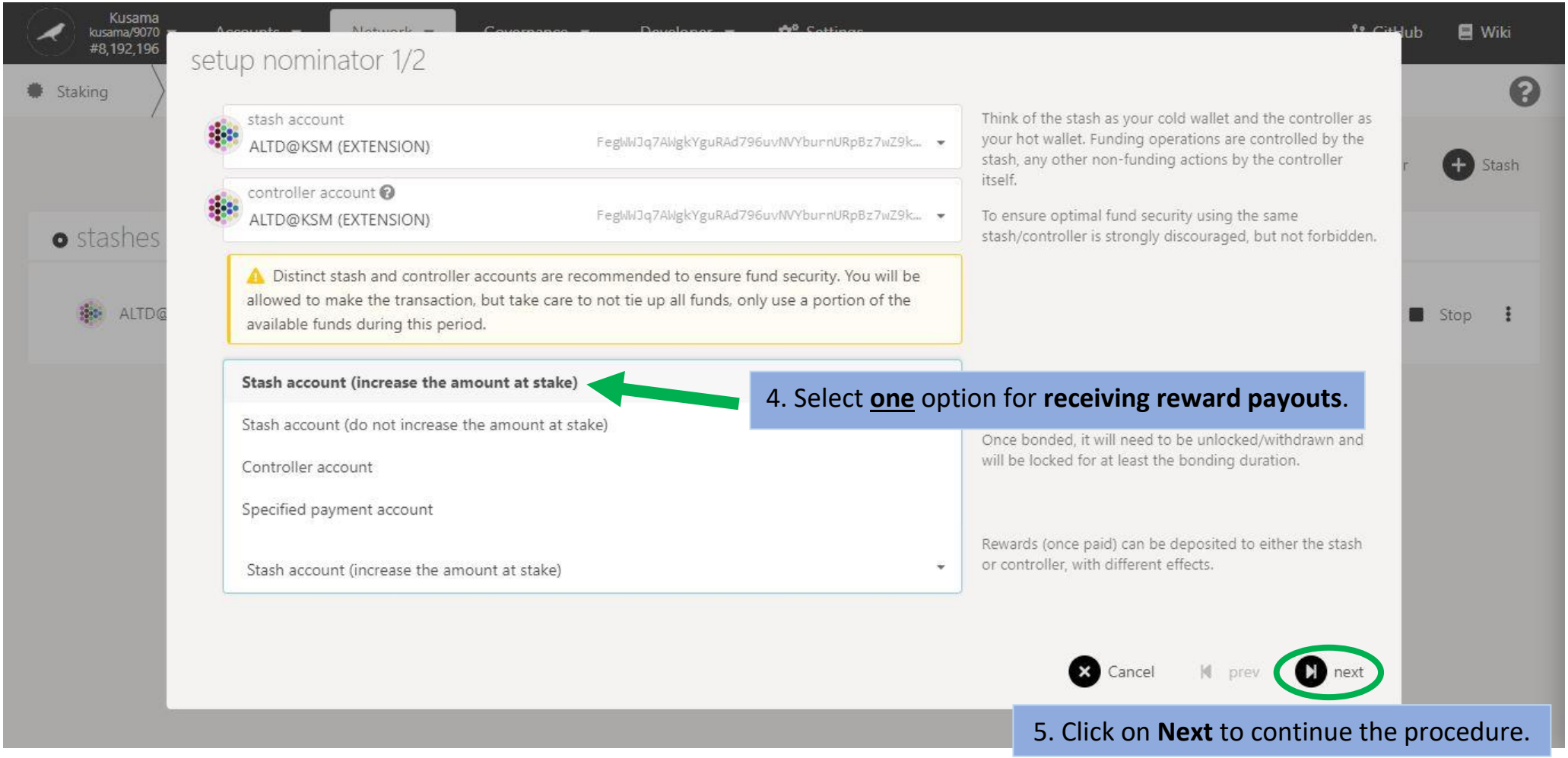


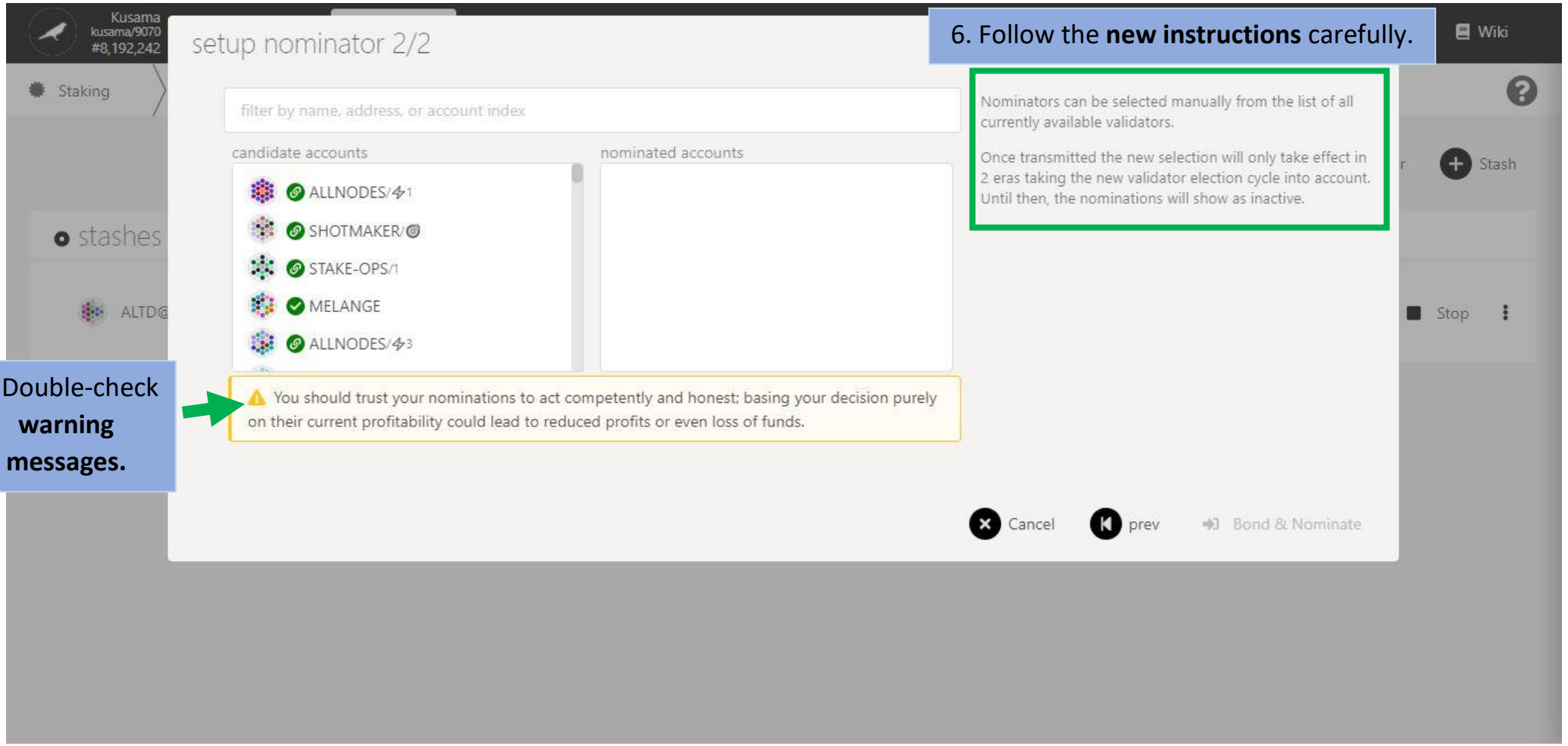
[Troubleshooting 3/4]

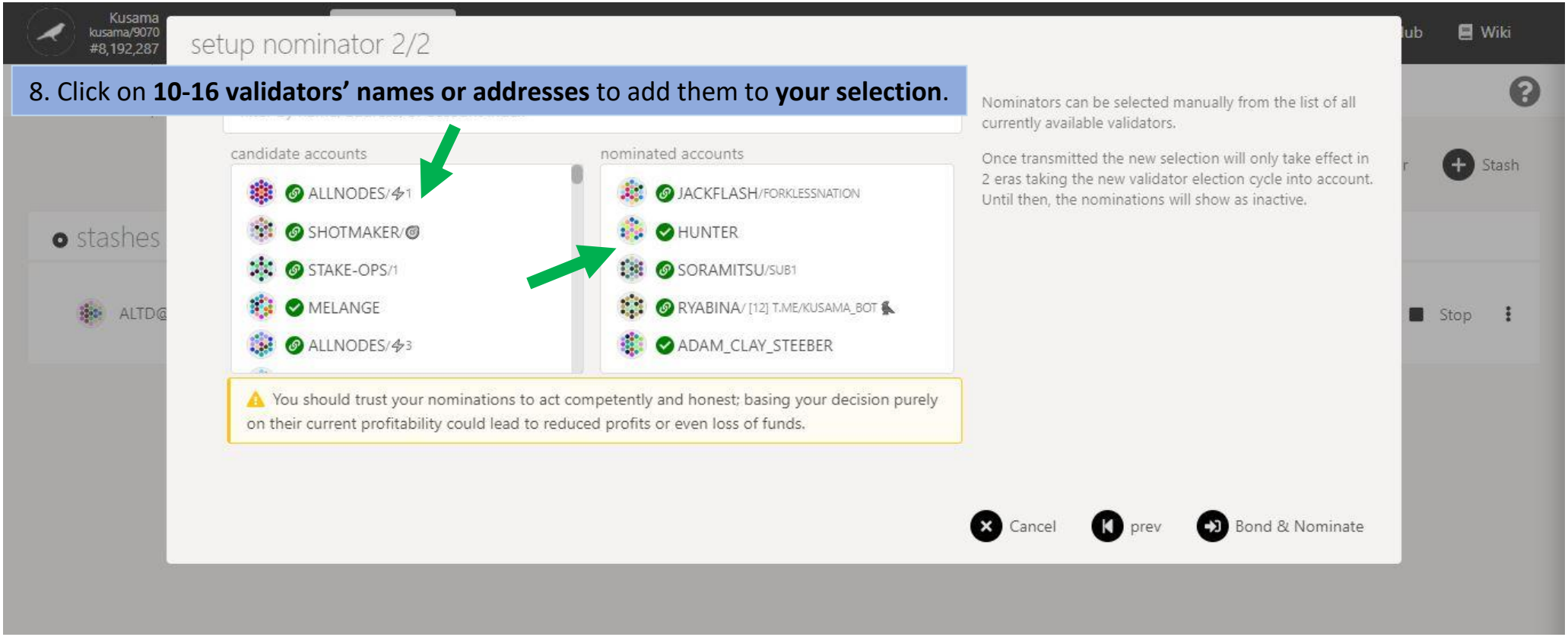


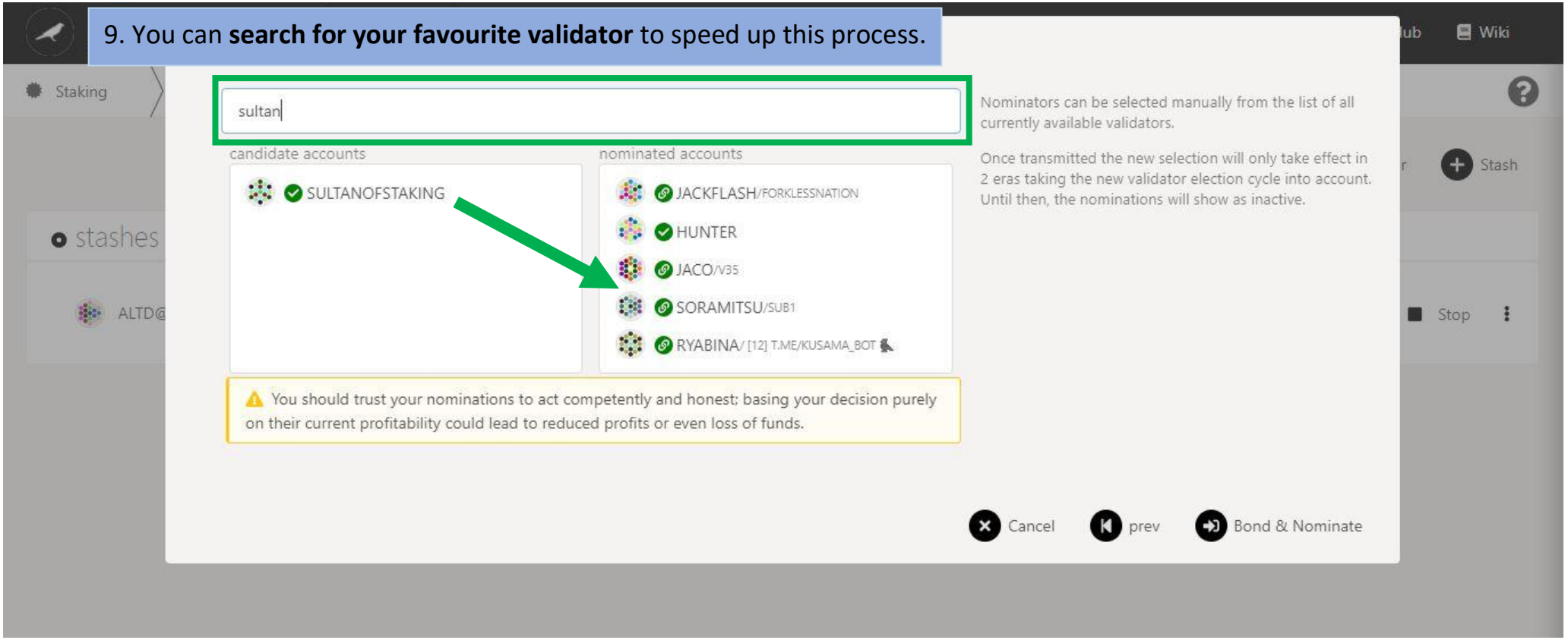
[Troubleshooting 4/4]

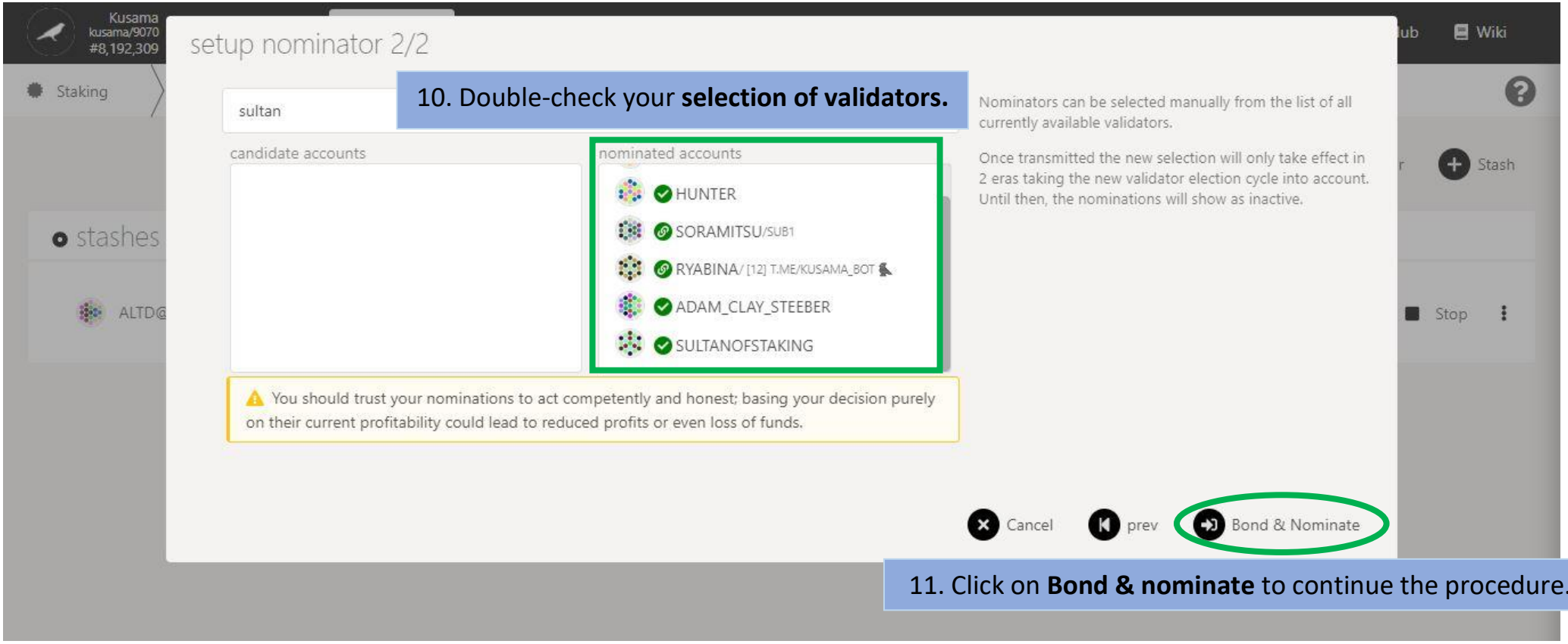



Kusama
kusama/9070
#8,192,196
Staking
Wiki
setup nominator 1/2
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
controller account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
Think of the stash as your cold wallet and the controller as your hot wallet. 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.
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)
Stash account (do not increase the amount at stake)
Controller account
Specified payment account
Stash account (increase the amount at stake)
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
4. Select one option for receiving reward payouts.
5. Click on Next to continue the procedure.

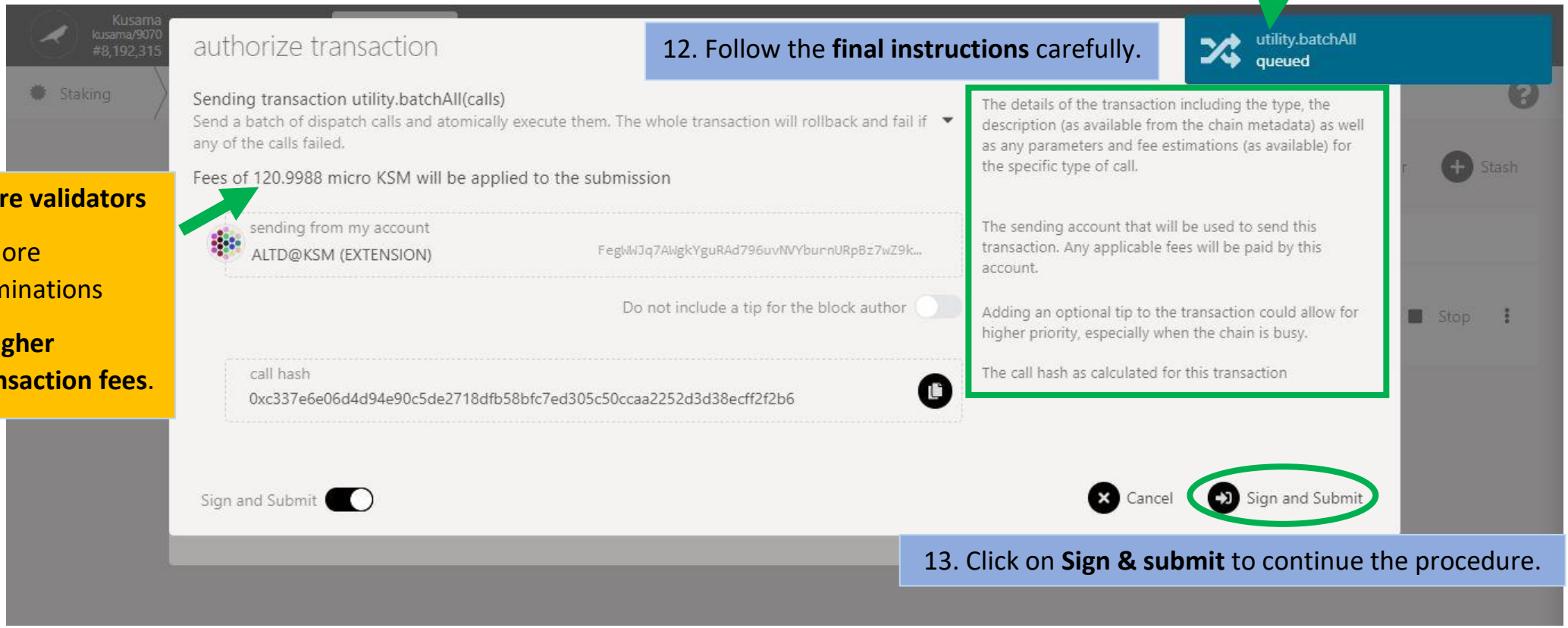

Kusama
kusama/9070
#8,192,242
Wiki
Staking
setup nominator 2/2
6. Follow the **new instructions** carefully.
filter by name, address, or account index
candidate accounts
nominated accounts
ALLNODES/1
SHOTMAKER/
STAKE-OPS/1
MELANGE
ALLNODES/3
Nominators can be selected manually from the list of all currently 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.
stashes
ALTD@
Stash
Stop
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.
Cancel
prev
Bond & Nominate


Kusama
kusama/9070
#8,192,287
setup nominator 2/2
Wiki
8. Click on **10-16 validators' names or addresses** to add them to **your selection**.
candidate accounts
ALLNODES/1
SHOTMAKER/
STAKE-OPS/1
MELANGE
ALLNODES/3
nominated accounts
JACKFLASH/FORKLESSNATION
HUNTER
SORAMITSU/SUB1
RYABINA/ [12] T.ME/KUSAMA_BOT
ADAM_CLAY_STEEBER
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.
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
Stash
stashes
Stop


9. You can **search for your favourite validator** to speed up this process.
Staking
Wiki
sultan
candidate accounts
nominated accounts
SULTANOFSTAKING
JACKFLASH/FORKLESSNATION
HUNTER
JACO/V35
SORAMITSU/SUB1
RYABINA/ [12] T.ME/KUSAMA_BOT
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.
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
stashes
Stash
Stop


Kusama
kusama/9070
#8,192,309
Wiki
Staking
setup nominator 2/2
10. Double-check your **selection of validators.**
sultan
candidate accounts
nominated accounts
HUNTER
SORAMITSU/SUB1
RYABINA/ [12] T.ME/KUSAMA_BOT
ADAM_CLAY_STEEBER
SULTANOFSTAKING
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.
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
Stash
stashes
Stop
11. Click on **Bond & nominate** to continue the procedure.

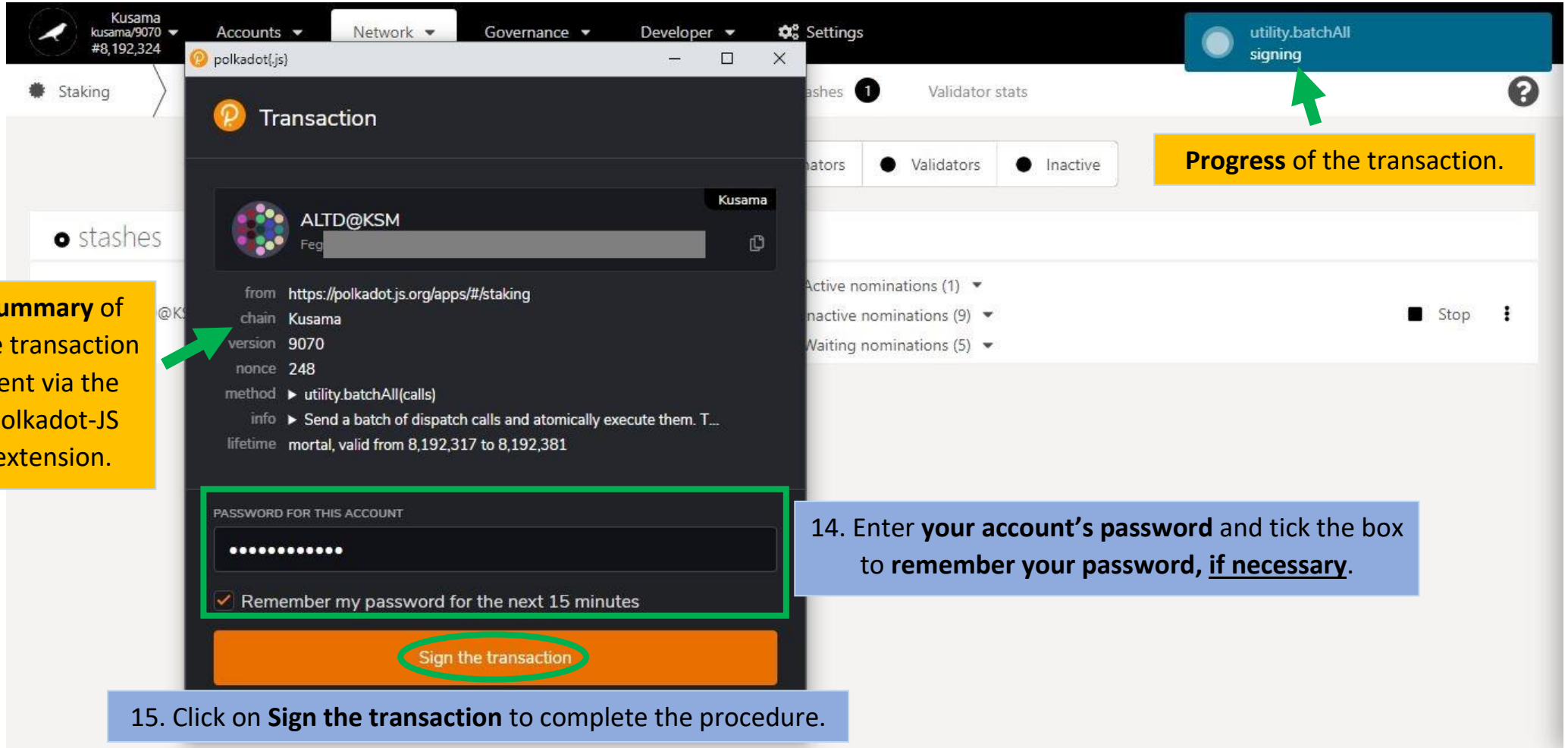
Nature of the transaction.



More validators

= more nominations

= **higher transaction fees**.



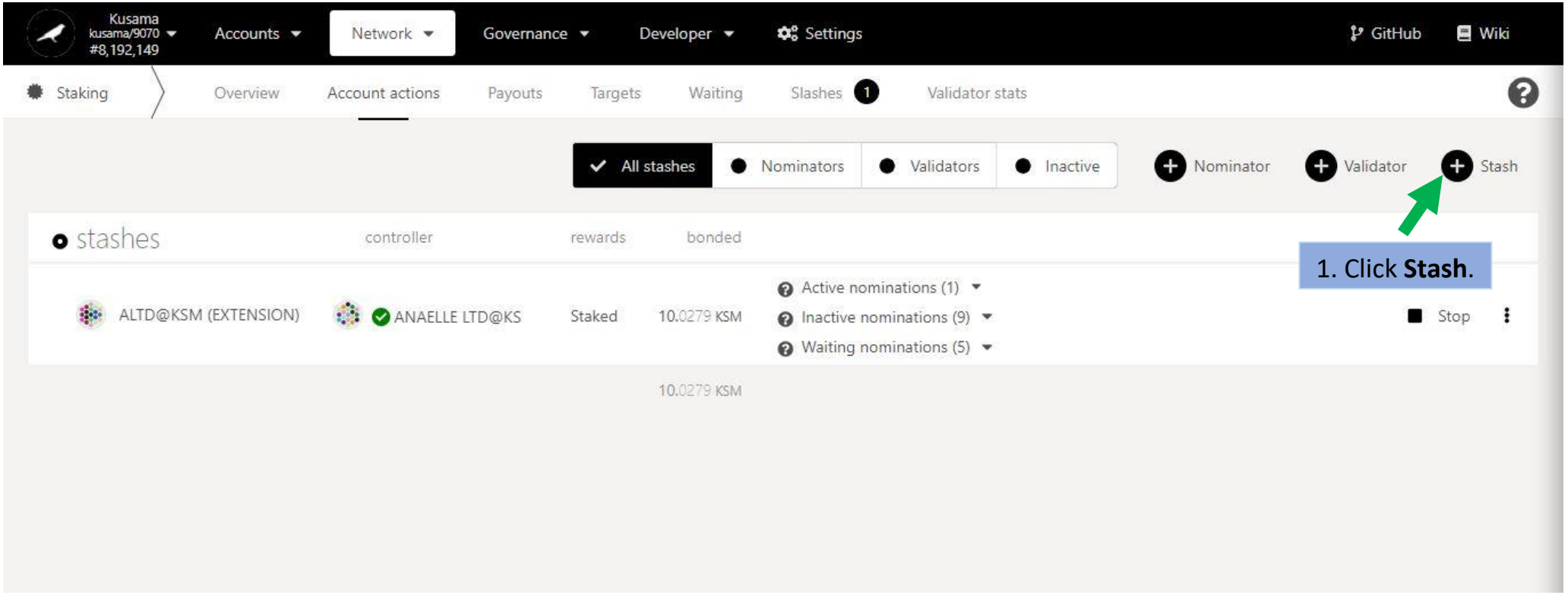
Summary of the transaction sent via the Polkadot-JS extension.

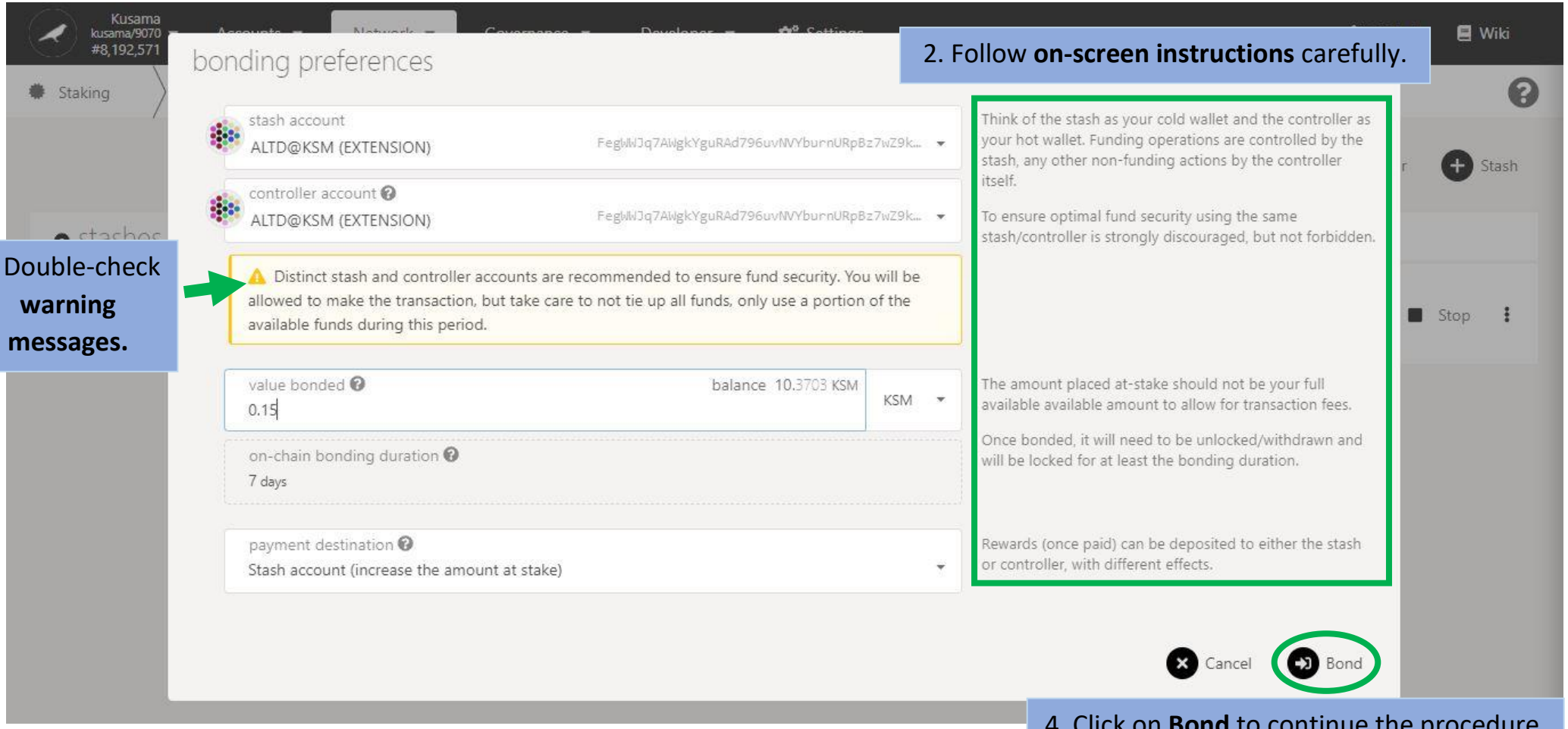
Progress of the transaction.

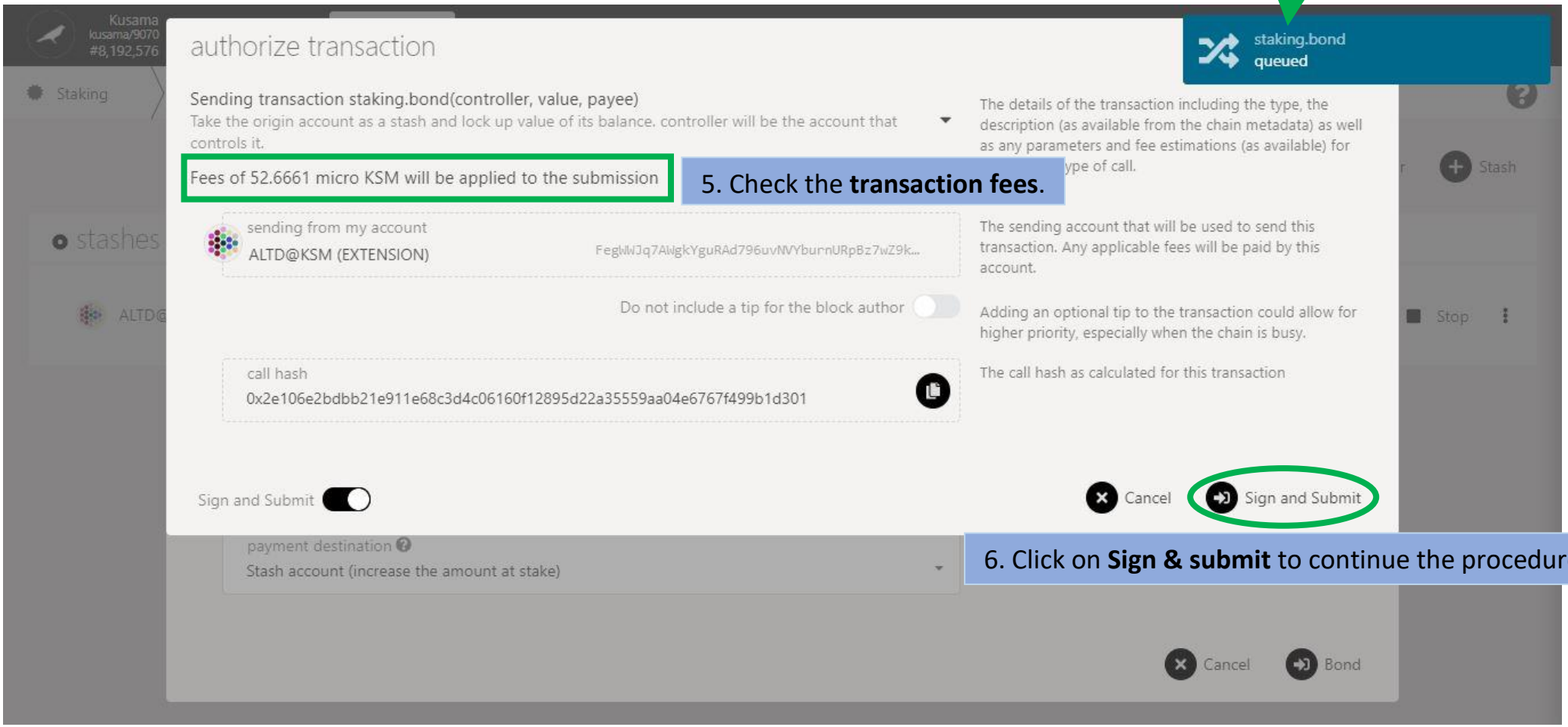
14. Enter **your account's password** and tick the box to **remember your password, <u>if necessary</u>**.

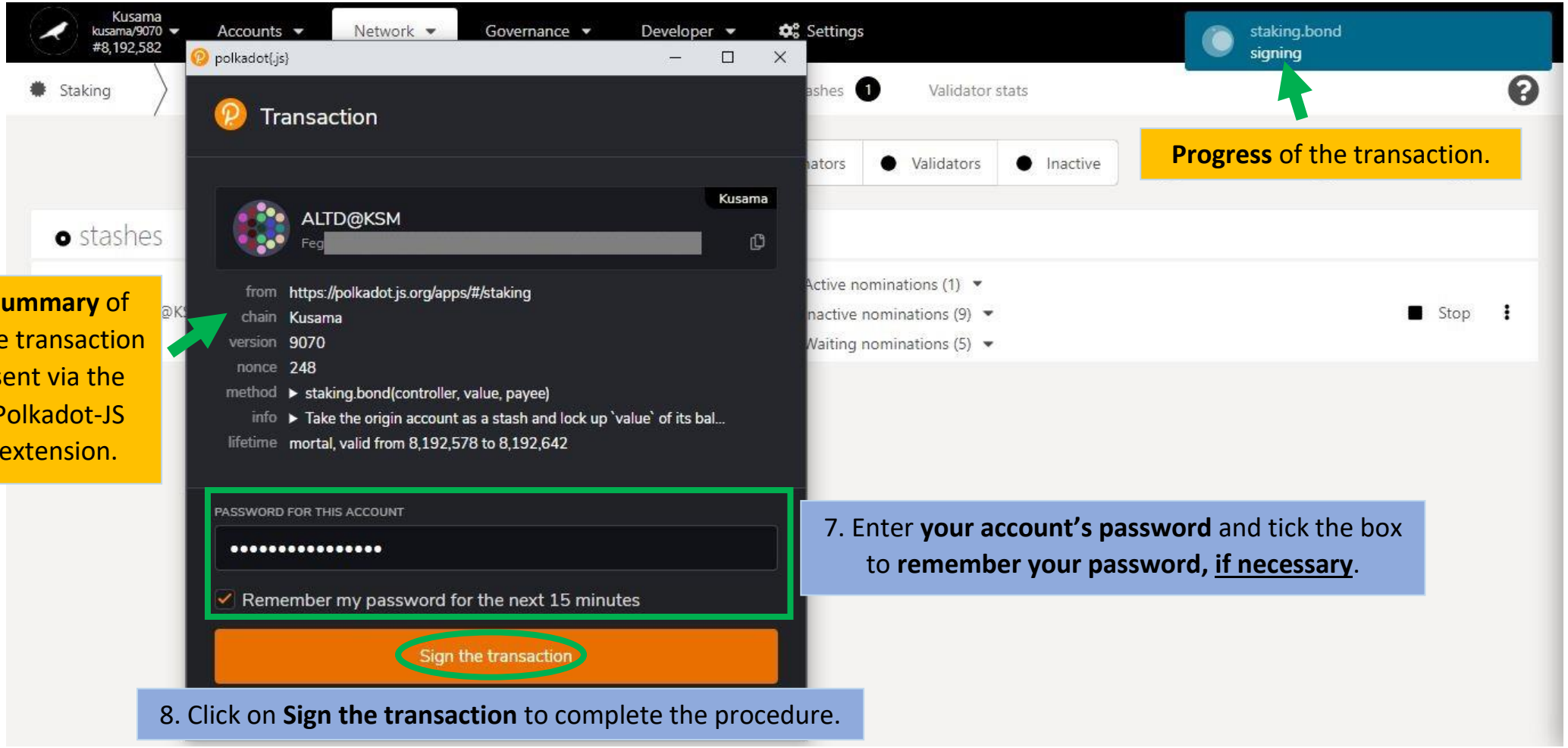
15. Click on **Sign the transaction** to complete the procedure.

- Add stashes.


Kusama
kusama/9070
#8,192,149
Accounts
Network
Governance
Developer
Settings
GitHub
Wiki
Staking
Overview
Account actions
Payouts
Targets
Waiting
Slashes 1
Validator stats
All stashes
Nominators
Validators
Inactive
Nominator
Validator
Stash
1. Click **Stash**.
stashes
controller
rewards
bonded
ALTD@KSM (EXTENSION)
ANAELLE LTD@KS
Staked
10.0279 KSM
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
10.0279 KSM


Kusama
kusama/9070
#8,192,571
Wiki
Staking
bonding preferences
stash account
ALTD@KSM (EXTENSION)
FegWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
controller account
ALTD@KSM (EXTENSION)
FegWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
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
balance 10.3703 KSM
0.15
KSM
on-chain bonding duration
7 days
payment destination
Stash account (increase the amount at stake)
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.
Cancel
Bond
Stash
Stop
2. Follow **on-screen instructions** carefully.
3. Double-check **warning messages.**
4. Click on **Bond** to continue the procedure.


Nature of the transaction.
staking.bond
queued
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.
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
Fees of 52.6661 micro KSM will be applied to the submission
5. Check the transaction fees.
sending from my account
ALTD@KSM (EXTENSION)
FegWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.
Do not include a tip for the block author
Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.
call hash
0x2e106e2bdbb21e911e68c3d4c06160f12895d22a35559aa04e6767f499b1d301
The call hash as calculated for this transaction
Sign and Submit
Cancel
Sign and Submit
payment destination
Stash account (increase the amount at stake)
6. Click on Sign & submit to continue the procedure.
Cancel
Bond

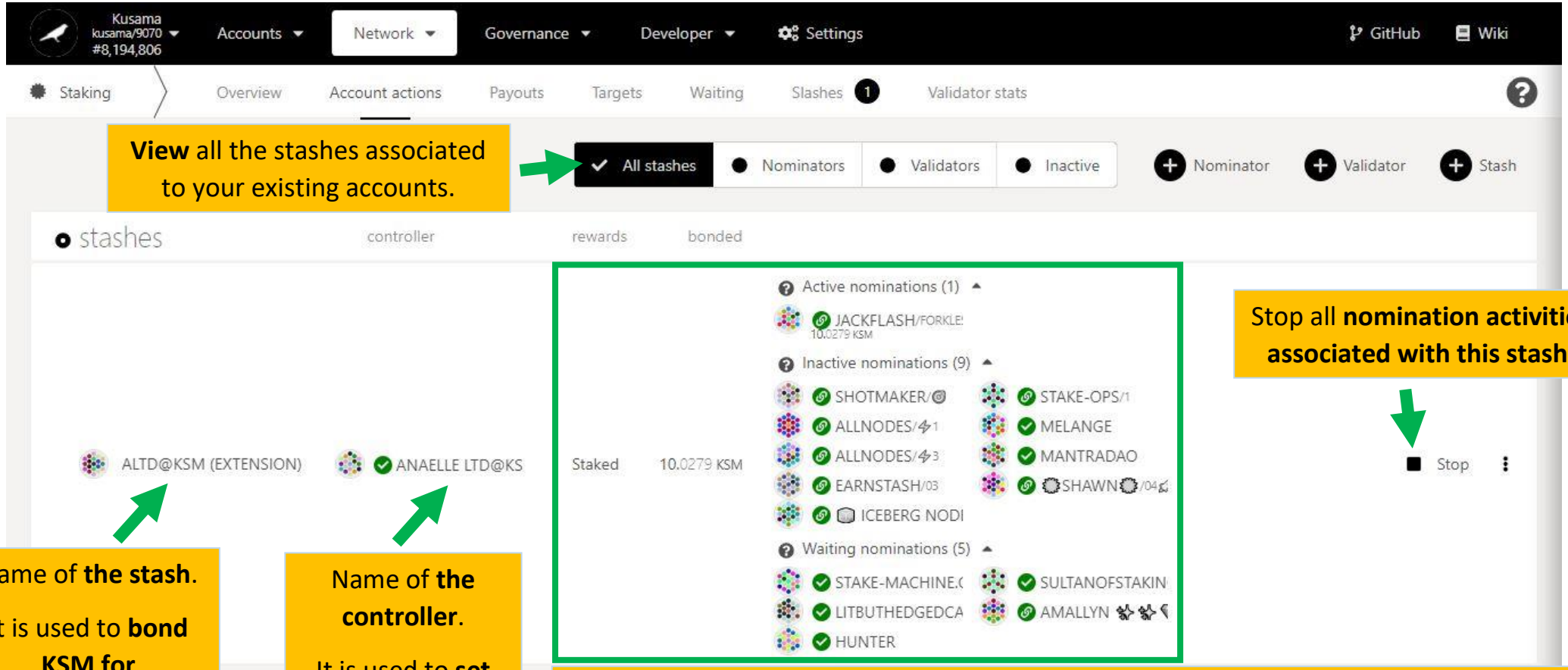


Progress of the transaction.

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

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

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



Staking summary:

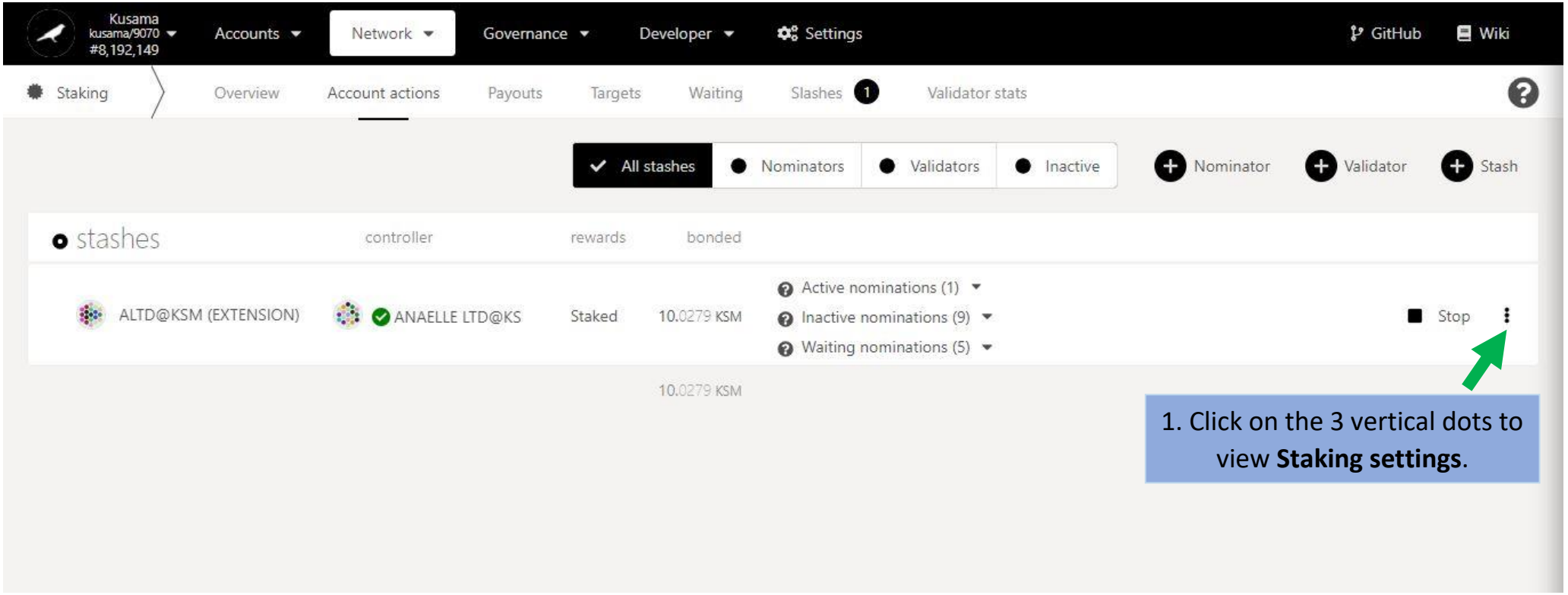
Staked: Total balance of KSM bonded/locked into nominations (includes reward payouts made into the stash).

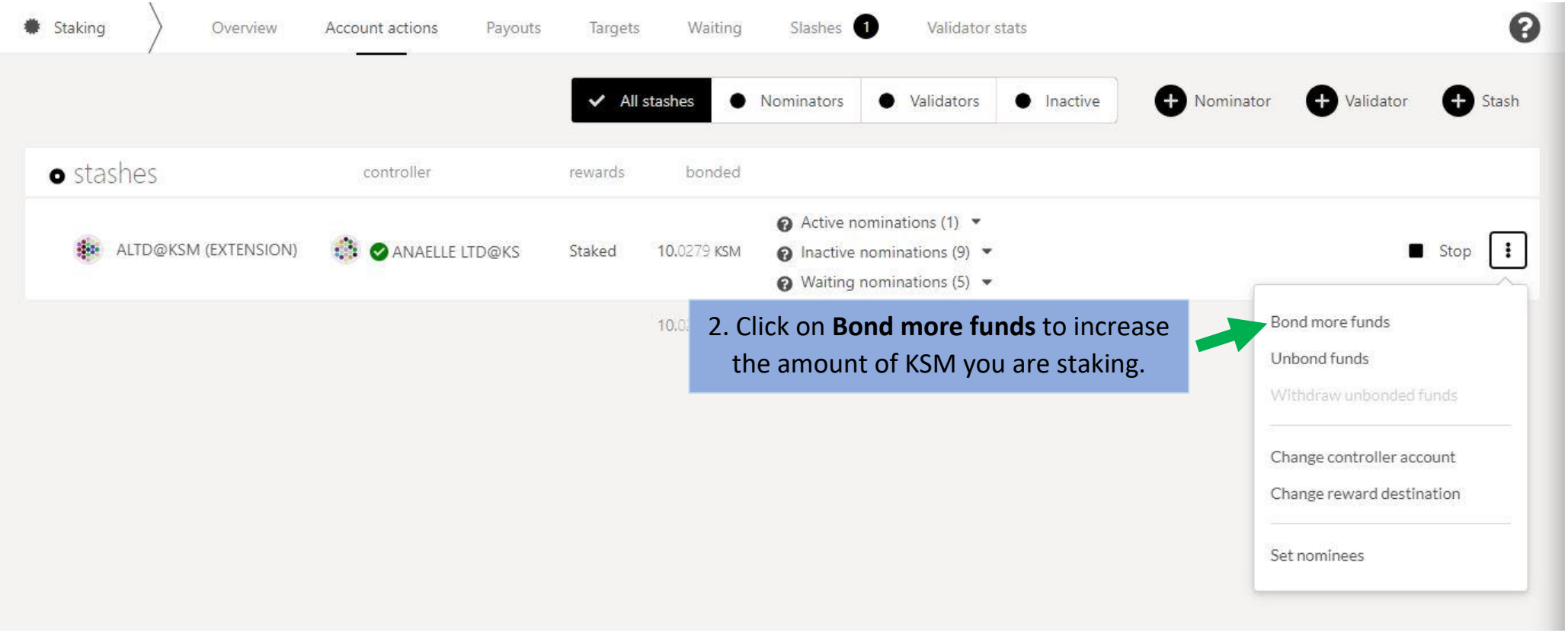
Active nominations: Nominated validator that is in the active set and making reward payments for the current era.

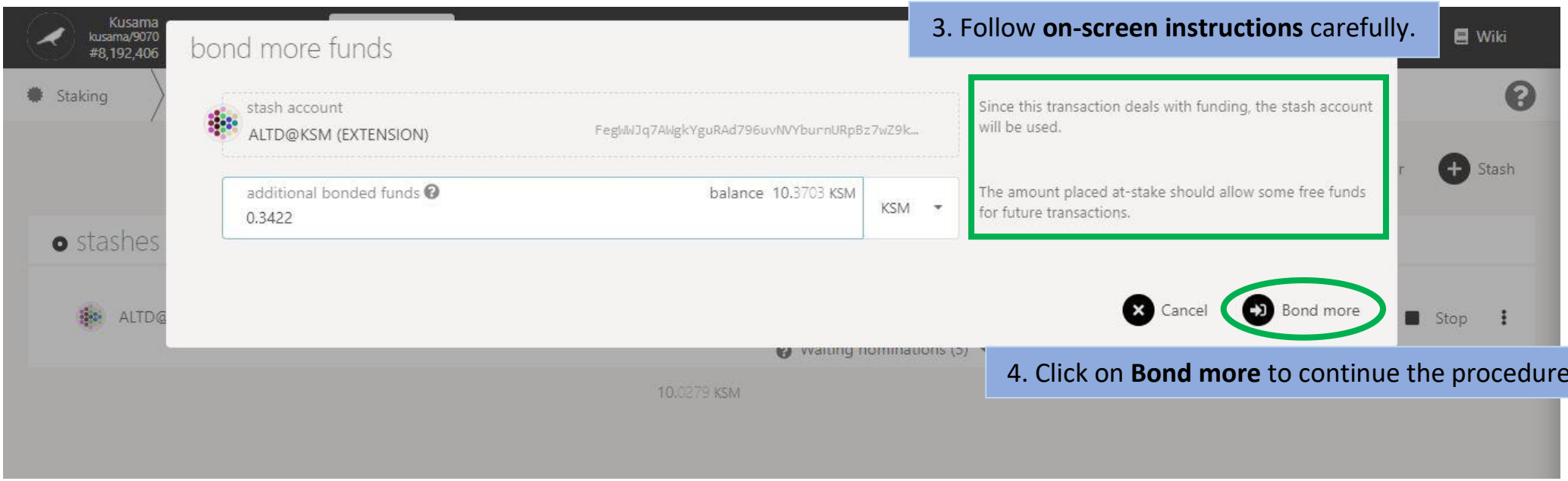
Inactive nominations: Nominated validators that are in the active set but not making reward payments for the current era.

Waiting nominations: Nominations waiting to be included in the active set or in the list of rewardees.

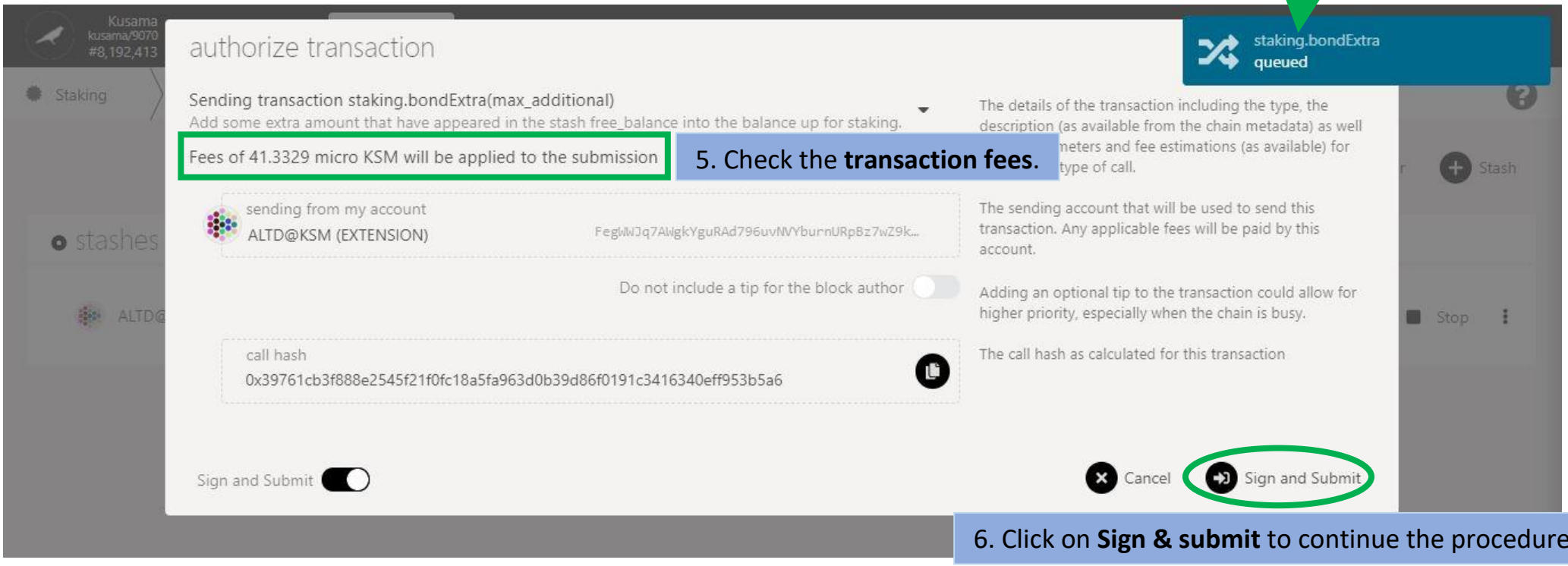
- Bond more funds.



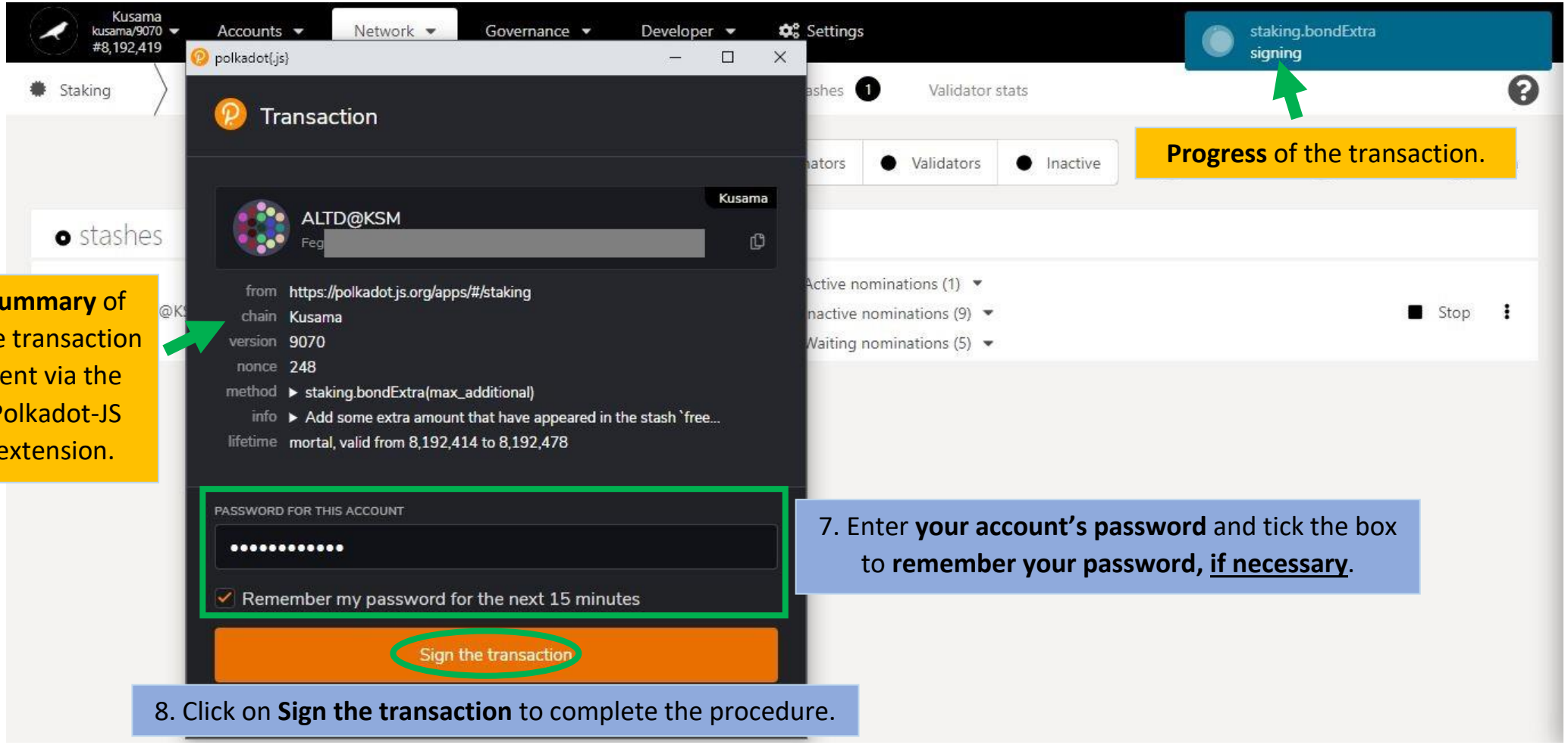

Staking
Overview
Account actions
Payouts
Targets
Waiting
Slashes 1
Validator stats
All stashes
Nominators
Validators
Inactive
Nominator
Validator
Stash
stashes
controller
rewards
bonded
ALTD@KSM (EXTENSION)
ANAELLE LTD@KS
Staked
10.0279 KSM
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
2. Click on **Bond more funds** to increase the amount of KSM you are staking.
Bond more funds
Unbond funds
Withdraw unbonded funds
Change controller account
Change reward destination
Set nominees


Kusama
kusama/9070
#8,192,406
Wiki
Staking
bond more funds
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
additional bonded funds
0.3422
balance 10.3703 KSM
KSM
Since this transaction deals with funding, the stash account will be used.
The amount placed at-stake should allow some free funds for future transactions.
Cancel
Bond more
Stash
stashes
Stop
10.0279 KSM
3. Follow **on-screen instructions** carefully.
4. Click on **Bond more** to continue the procedure.

Nature of the transaction.



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



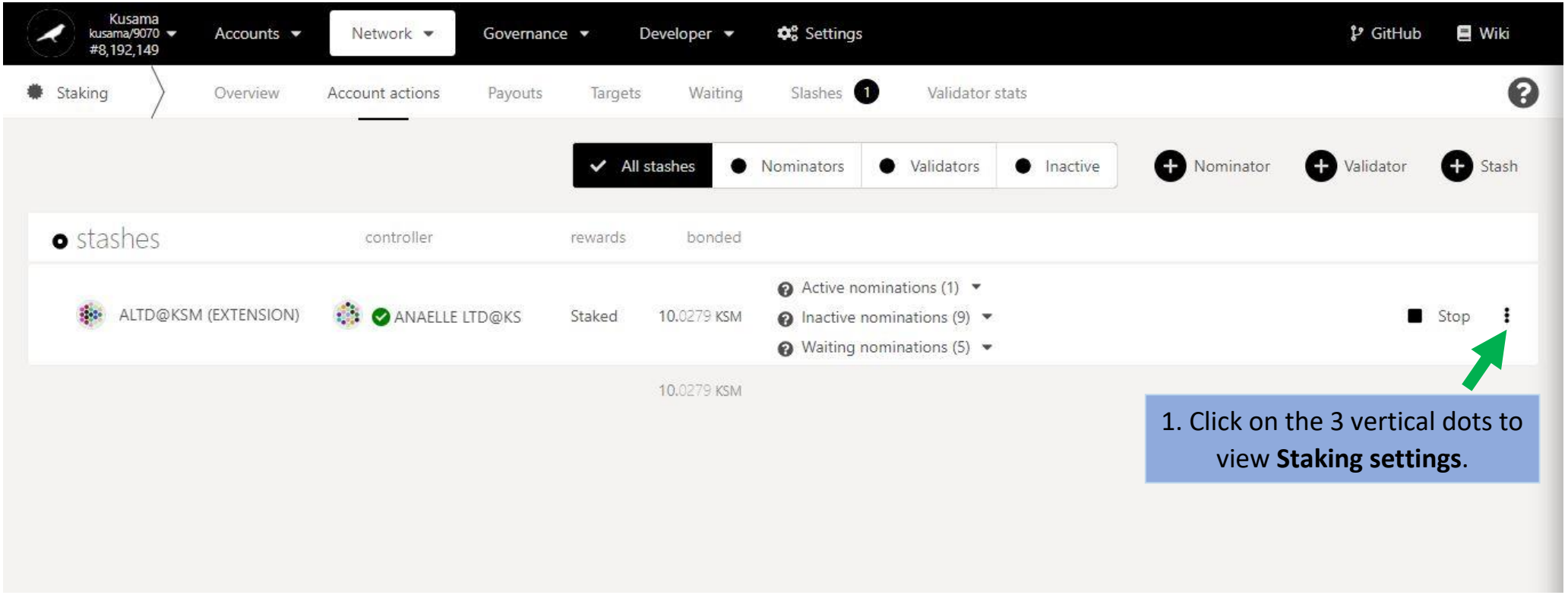
Progress of the transaction.

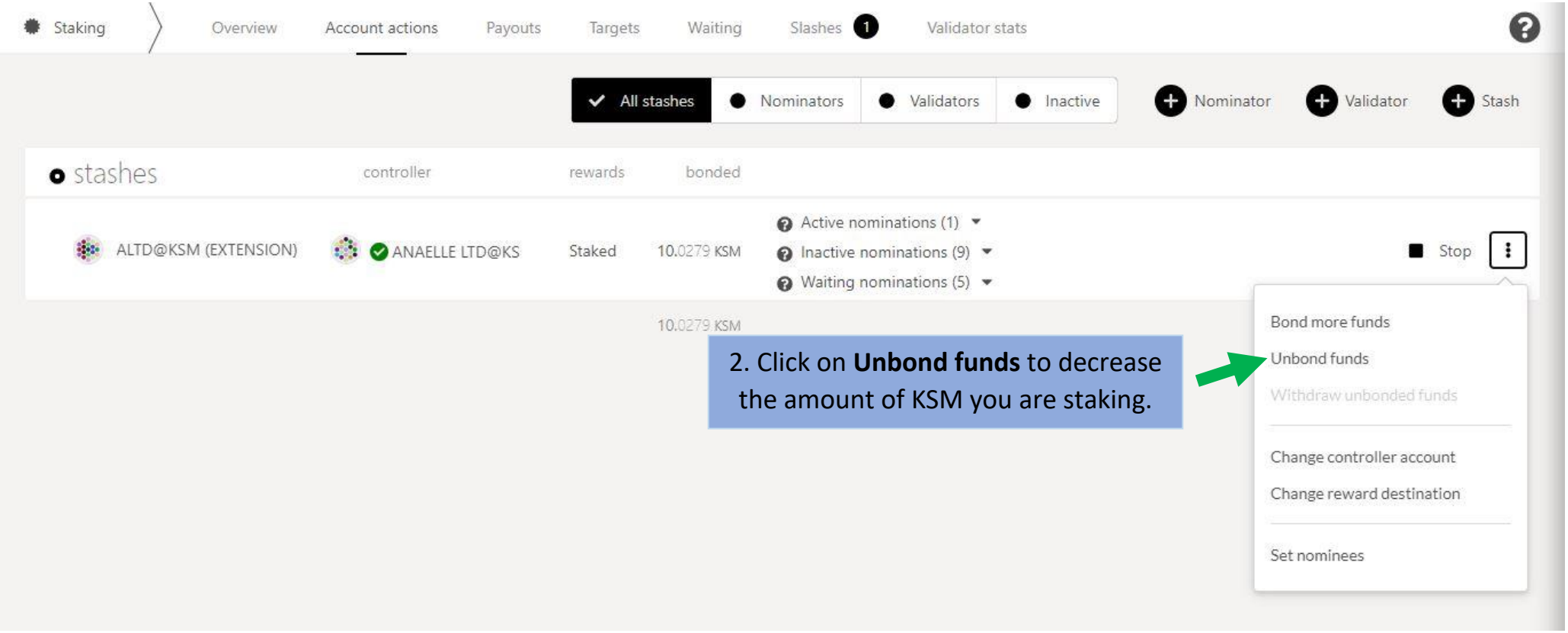
Summary of the transaction sent via the Polkadot-JS extension.

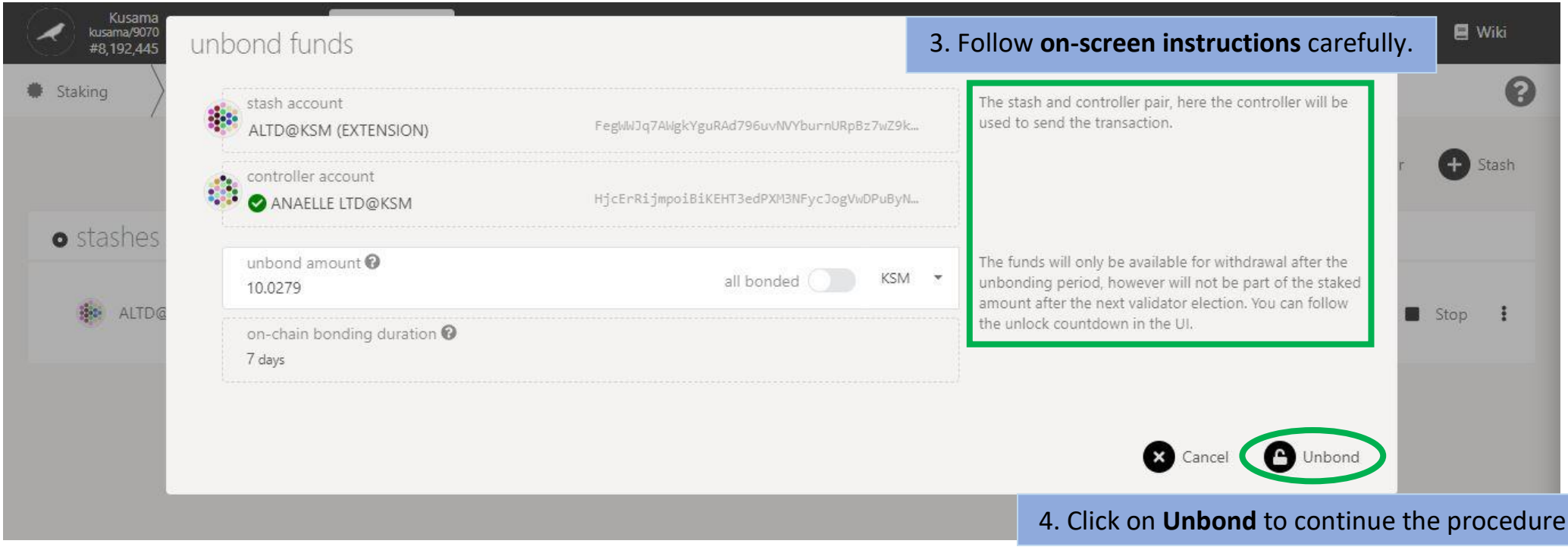
7. Enter **your account's password** and tick the box to **remember your password, <u>if necessary</u>**.

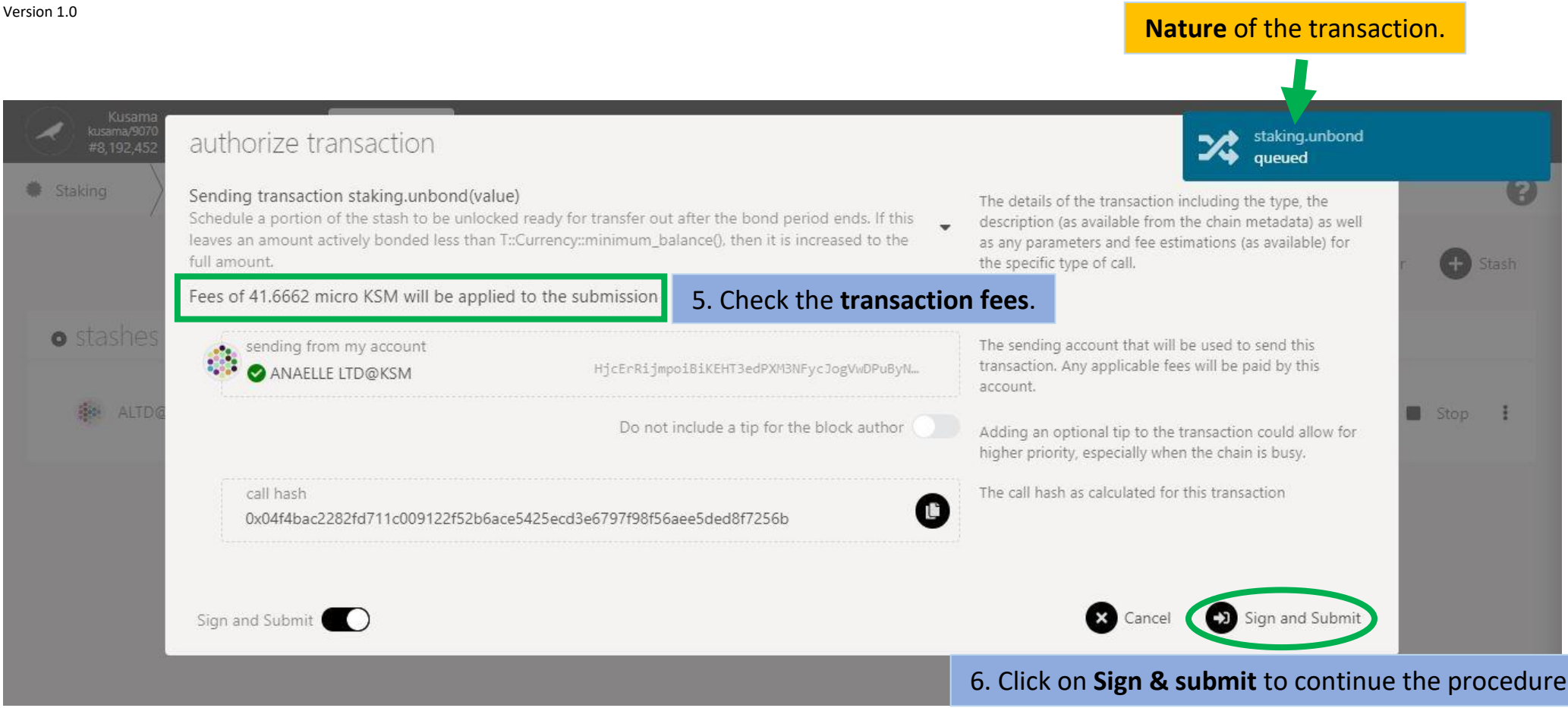
8. Click on **Sign the transaction** to complete the procedure.

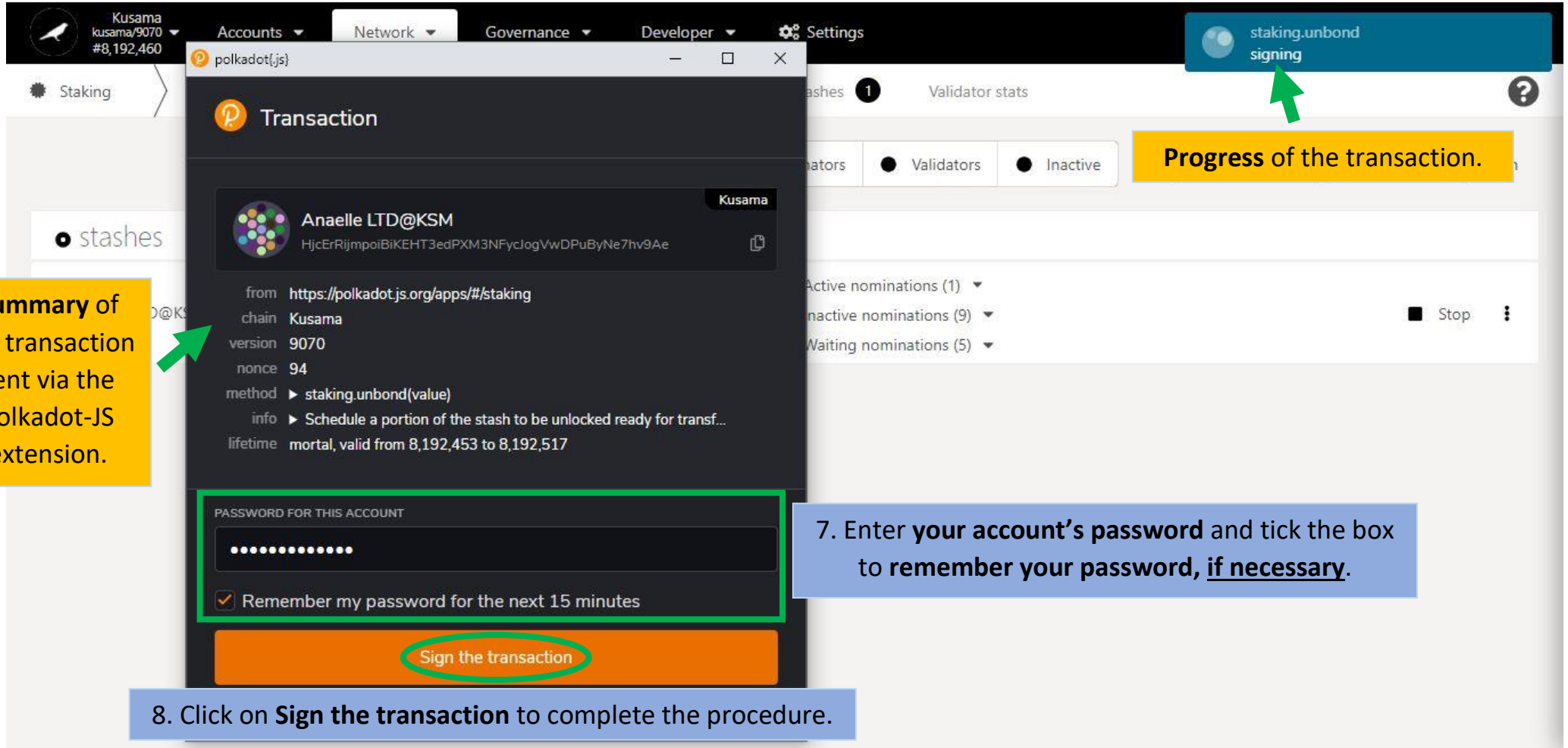
- Unbond funds.



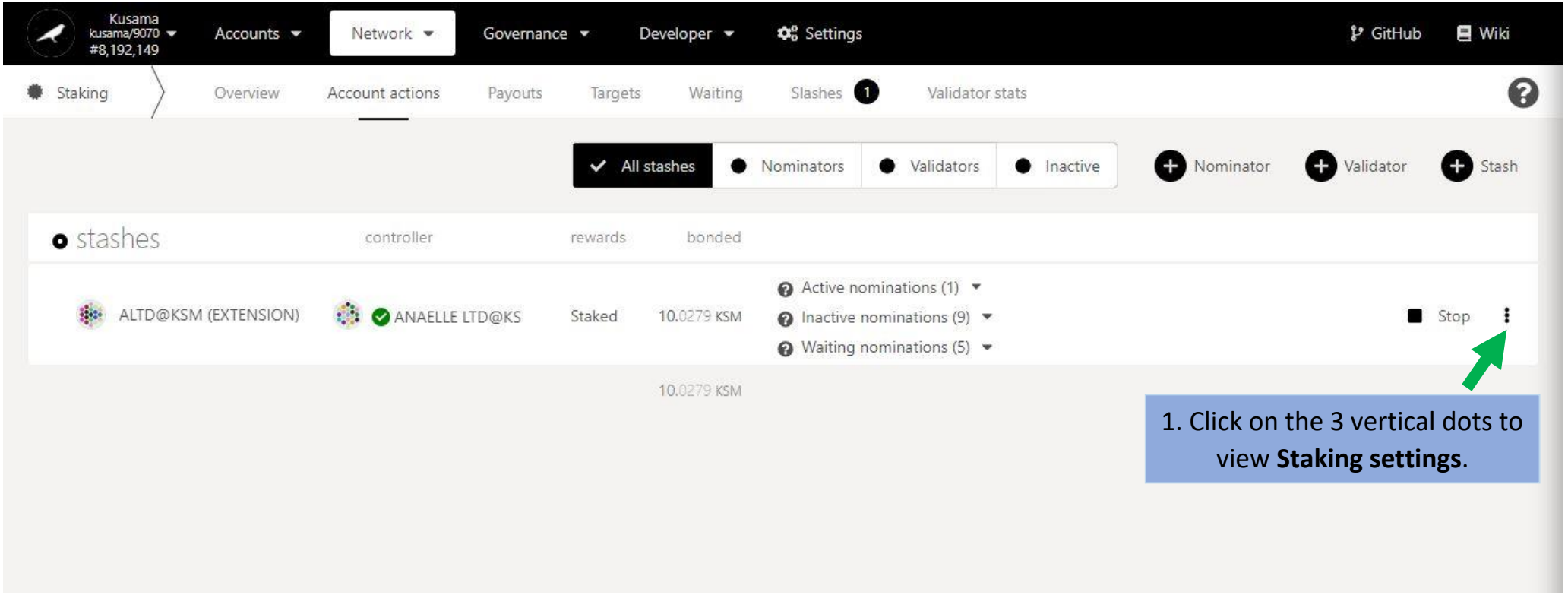

Staking
Overview
Account actions
Payouts
Targets
Waiting
Slashes 1
Validator stats
All stashes
Nominators
Validators
Inactive
Nominator
Validator
Stash
stashes
controller
rewards
bonded
ALTD@KSM (EXTENSION)
ANAELLE LTD@KS
Staked
10.0279 KSM
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
10.0279 KSM
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

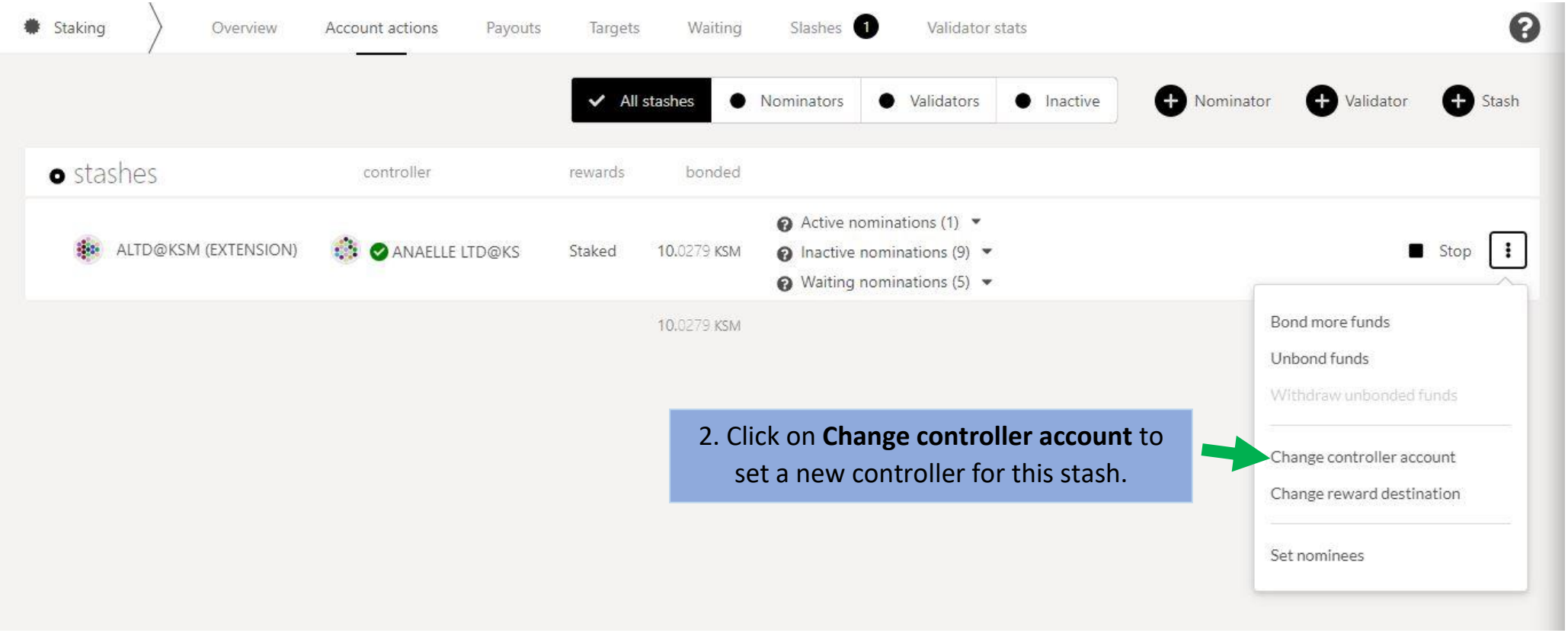

Kusama
kusama/9070
#8,192,445
Wiki
Staking
unbond funds
3. Follow **on-screen instructions** carefully.
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
controller account
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByN...
The stash and controller pair, here the controller will be used to send the transaction.
unbond amount
10.0279
all bonded
KSM
on-chain bonding duration
7 days
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
stashes
Stash
Stop
4. Click on **Unbond** to continue the procedure.


Nature of the transaction.
staking.unbond
queued
authorize transaction
Sending transaction staking.unbond(value)
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.
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.
Fees of 41.6662 micro KSM will be applied to the submission
5. Check the transaction fees.
sending from my account
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByN...
The sending account that will be used to send this transaction. Any applicable fees will be paid by this account.
Do not include a tip for the block author
Adding an optional tip to the transaction could allow for higher priority, especially when the chain is busy.
call hash
0x04f4bac2282fd711c009122f52b6ace5425ecd3e6797f98f56aee5ded8f7256b
The call hash as calculated for this transaction
Sign and Submit
Cancel
Sign and Submit
6. Click on Sign & submit to continue the procedure.

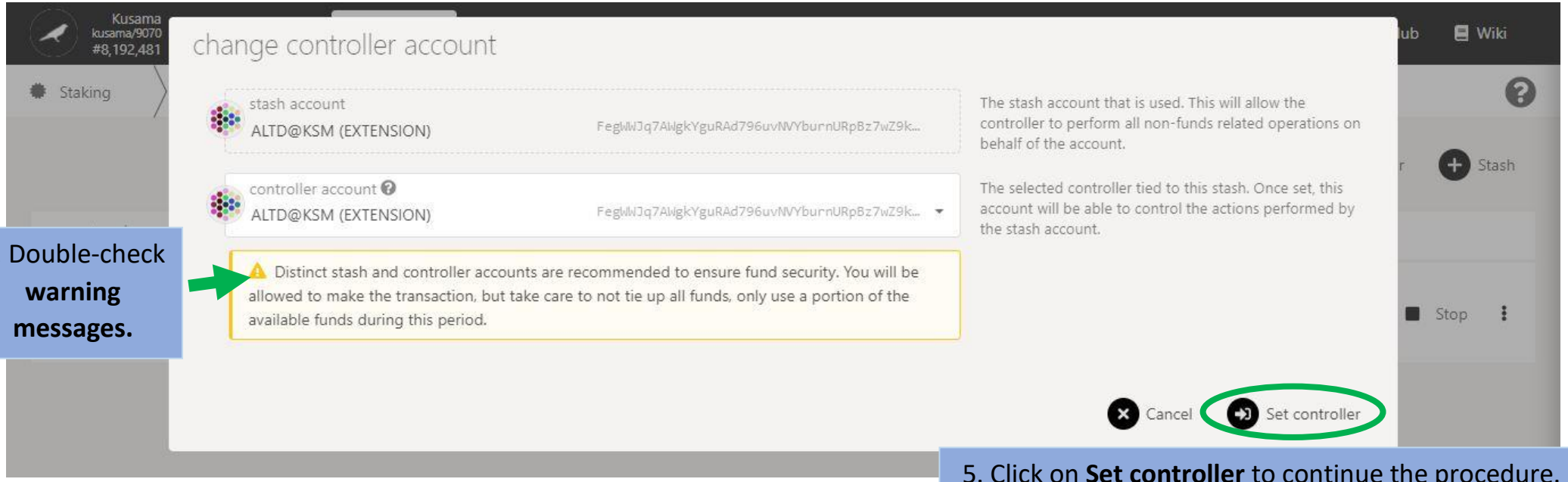

Kusama
kusama/9070
#8,192,460
Accounts
Network
Governance
Developer
Settings
staking.unbond
signing
Staking
Validator stats
Validators
Inactive
stashes
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
Progress of the transaction.
polkadot{.js}
Transaction
Kusama
Anaelle LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByNe7hv9Ae
from https://polkadot.js.org/apps/#/staking
chain Kusama
version 9070
nonce 94
method ▶ staking.unbond(value)
info ▶ Schedule a portion of the stash to be unlocked ready for transf...
lifetime mortal, valid from 8,192,453 to 8,192,517
PASSWORD FOR THIS ACCOUNT
Remember my password for the next 15 minutes
Sign the transaction
Summary of the transaction sent via the Polkadot-JS extension.
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.

- Change controller account.




Staking
Overview
Account actions
Payouts
Targets
Waiting
Slashes 1
Validator stats
All stashes
Nominators
Validators
Inactive
Nominator
Validator
Stash
stashes
controller
rewards
bonded
ALTD@KSM (EXTENSION)
ANAELLE LTD@KS
Staked
10.0279 KSM
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
10.0279 KSM
Bond more funds
Unbond funds
Withdraw unbonded funds
Change controller account
Change reward destination
Set nominees
2. Click on **Change controller account** to set a new controller for this stash.

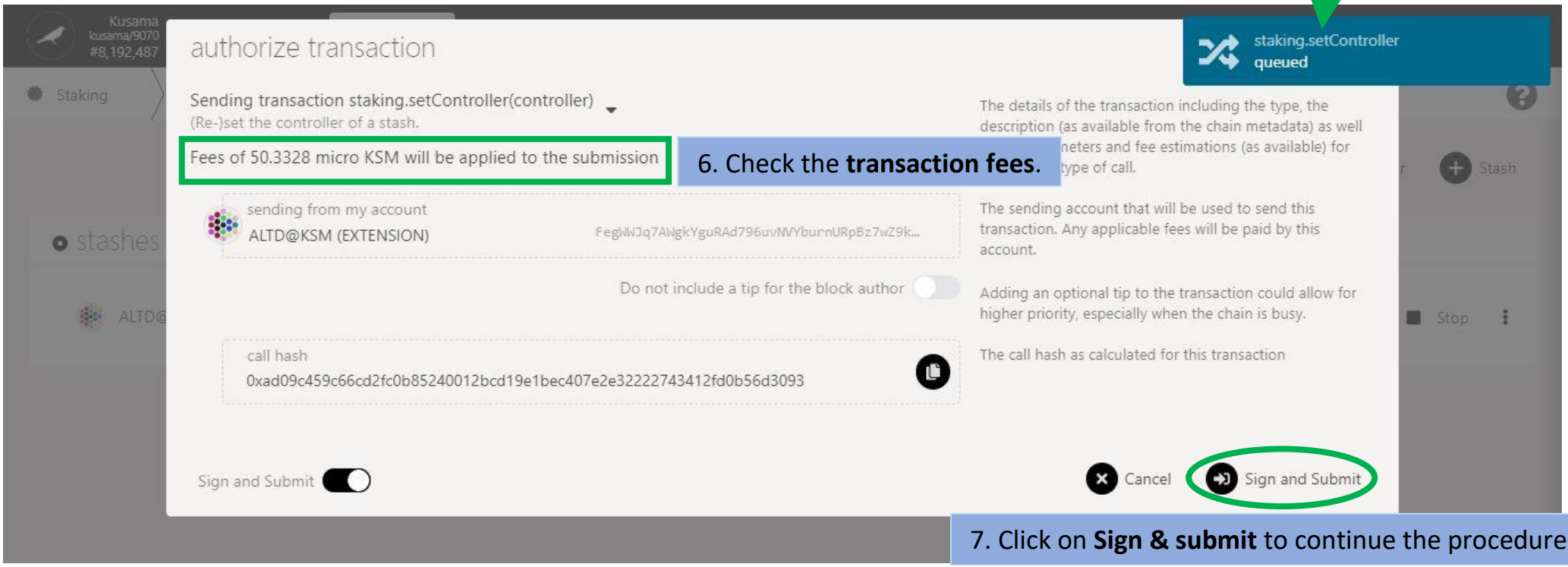
Kusama
kusama/9070
#8,192,472
Wiki
Staking
change controller account
3. Follow **on-screen instructions** carefully.
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByN...
ACCOUNTS
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9...
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuBy...
LALA
HEjiAtKMqsi85R1LJ3qkxKjAZCwCJ6h2JRrKHKk...
The stash account that is used. This will allow the controller to perform all non-funds related operations on behalf of the account.
The selected controller tied to this stash. Once set, this account will be able to control the actions performed by the stash account.
Cancel
Set controller
Stash
stashes
Stop



4. Double-check **warning messages.**

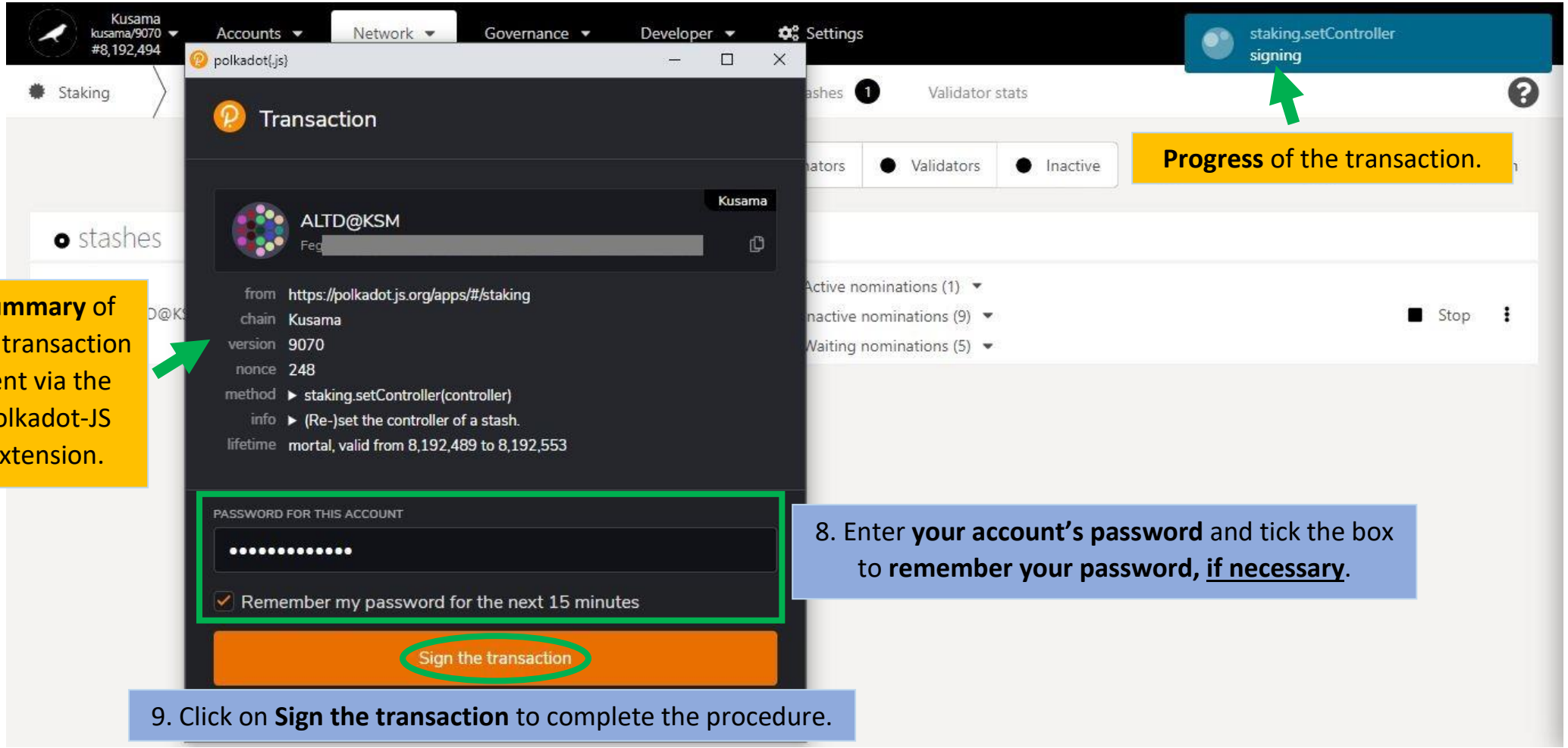
5. Click on **Set controller** to continue the procedure.

Nature of the transaction.



6. Check the **transaction fees**.

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



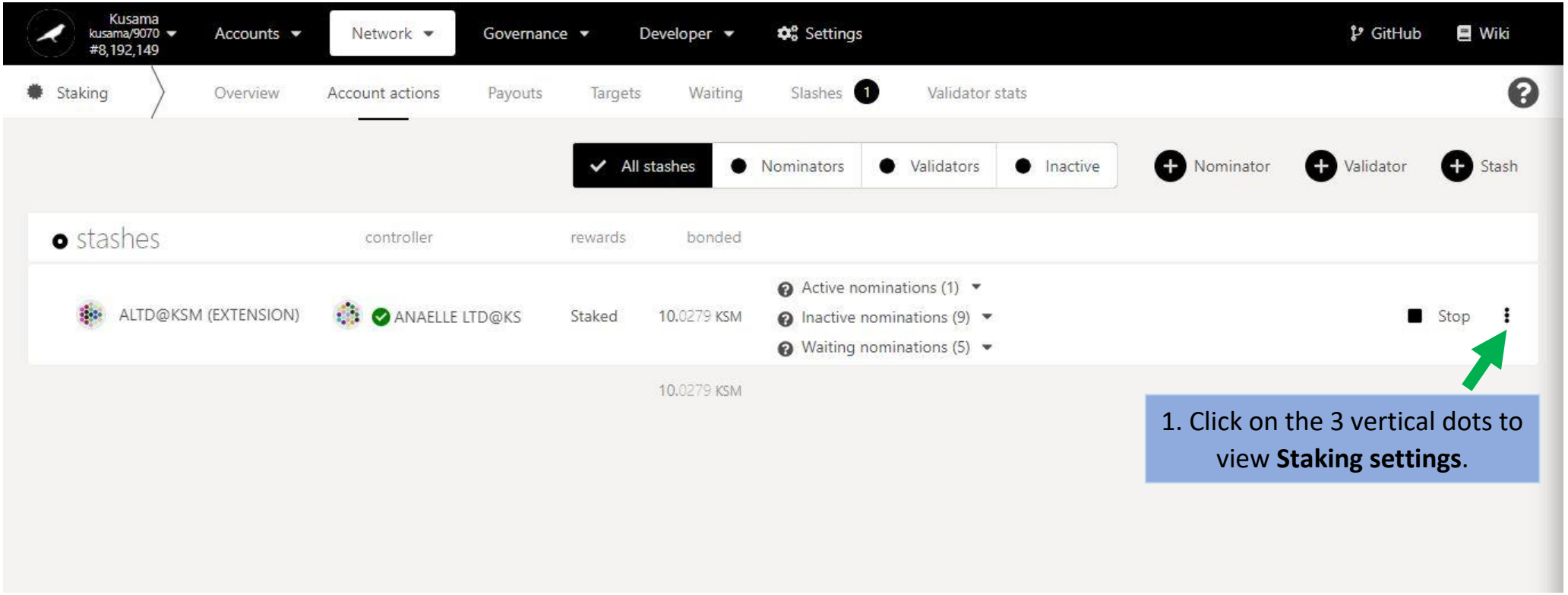
Progress of the transaction.

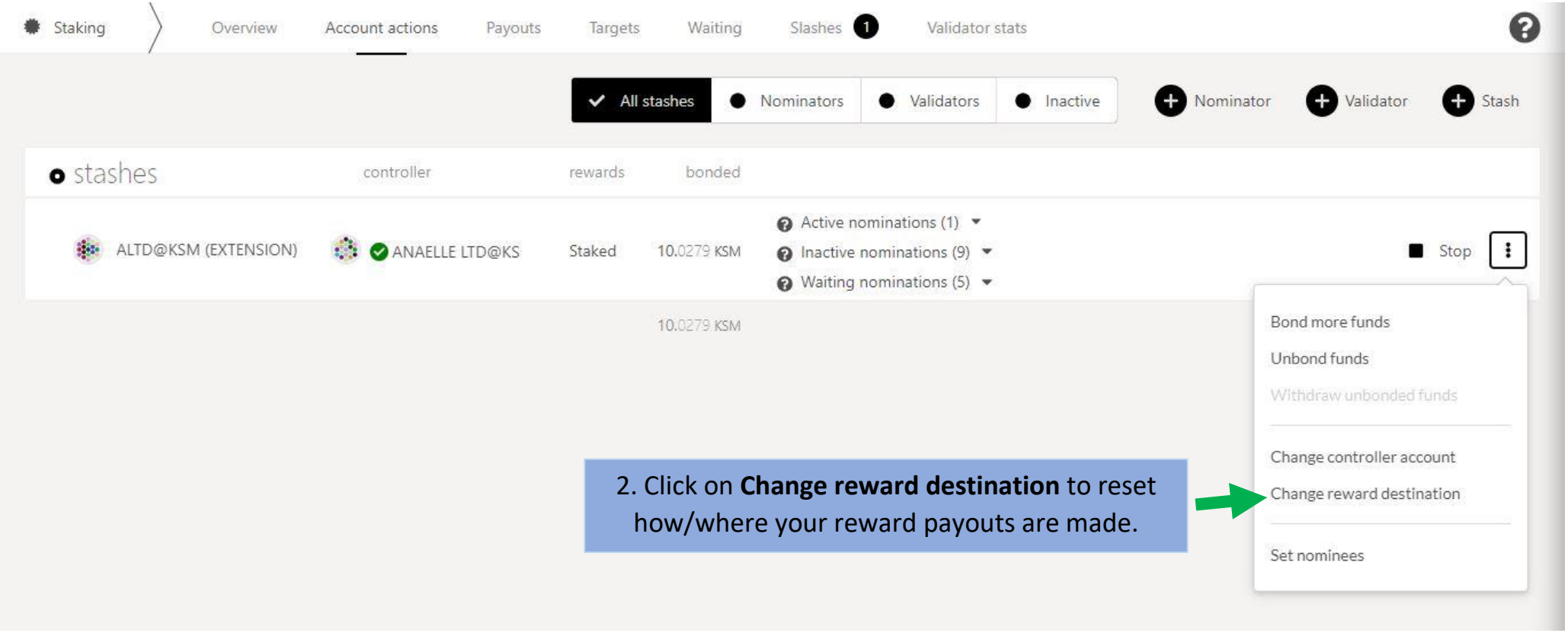
Summary of the transaction sent via the Polkadot-JS extension.

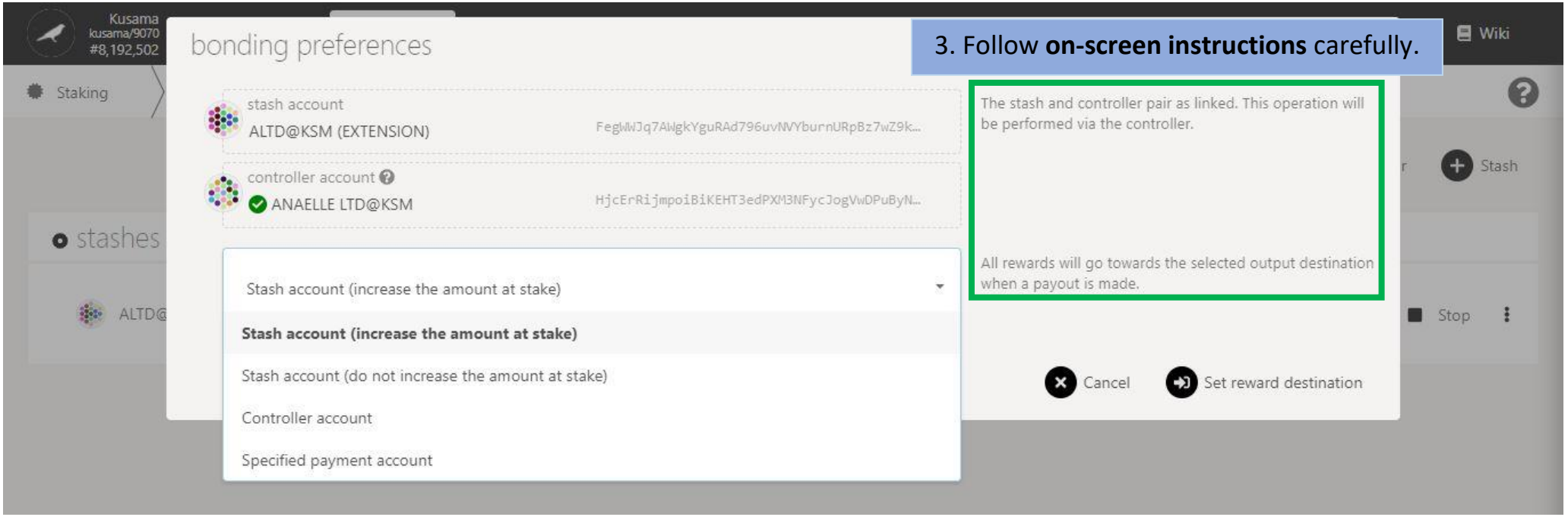
8. Enter **your account's password** and tick the box to **remember your password, <u>if necessary</u>**.

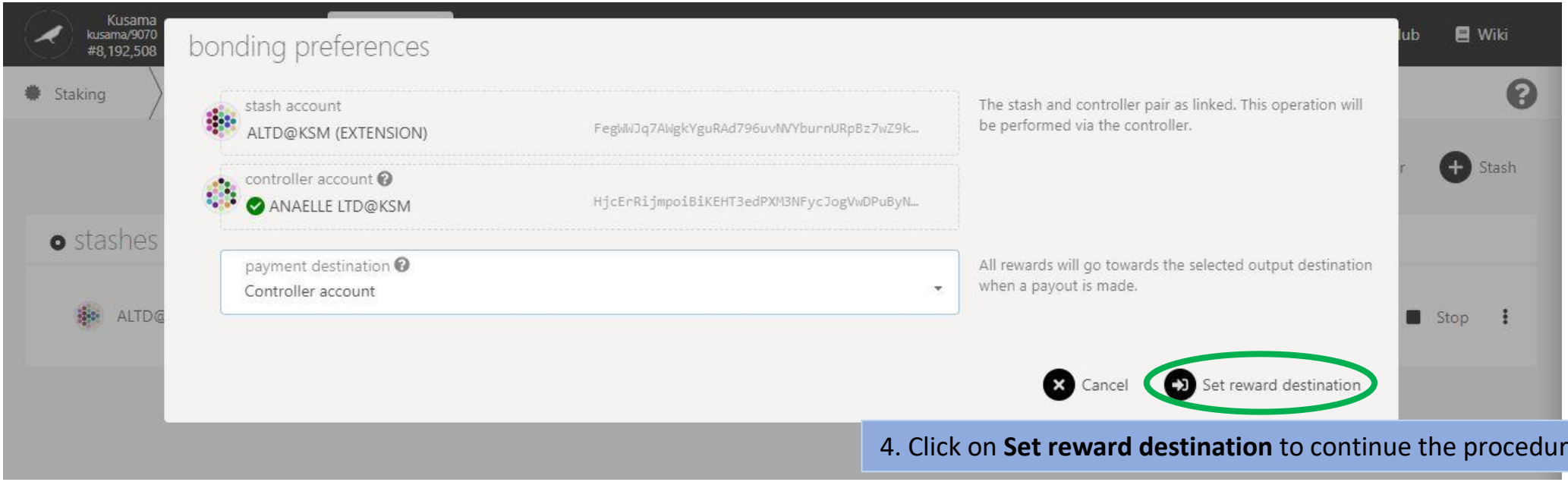
9. Click on **Sign the transaction** to complete the procedure.

- Change reward destination.



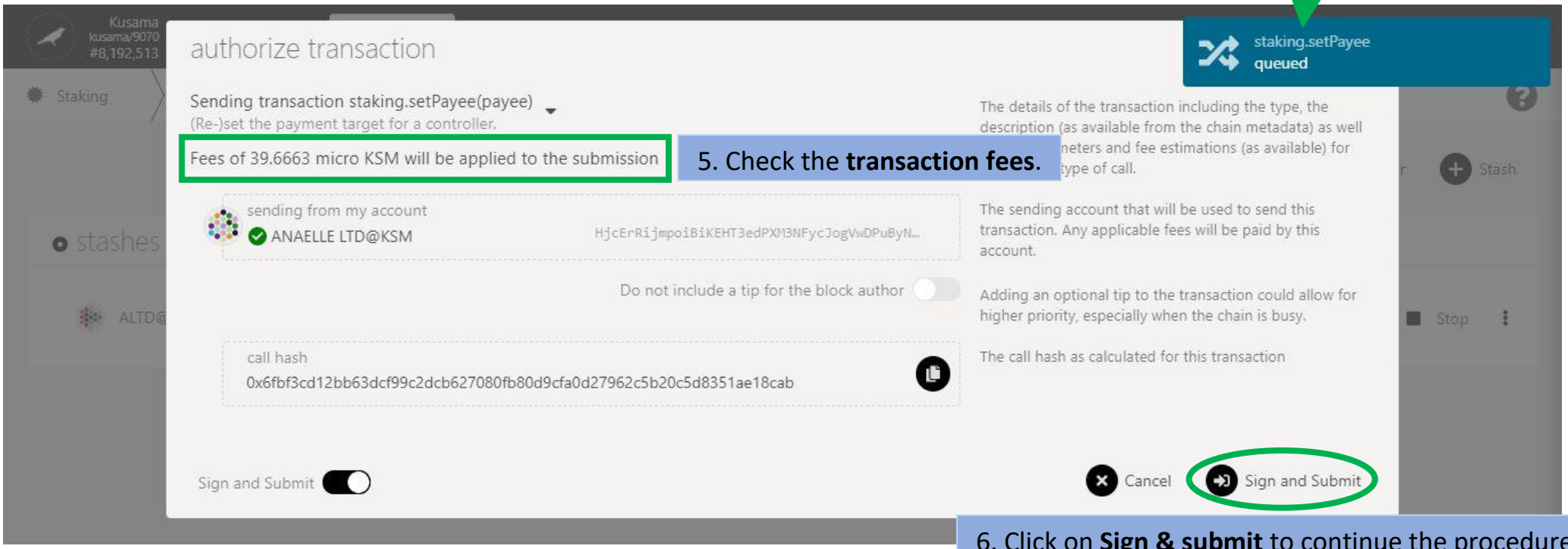

Staking
Overview
Account actions
Payouts
Targets
Waiting
Slashes 1
Validator stats
All stashes
Nominators
Validators
Inactive
Nominator
Validator
Stash
stashes
controller
rewards
bonded
ALTD@KSM (EXTENSION)
ANAELLE LTD@KS
Staked
10.0279 KSM
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
10.0279 KSM
Bond more funds
Unbond funds
Withdraw unbonded funds
Change controller account
Change reward destination
Set nominees
2. Click on **Change reward destination** to reset how/where your reward payouts are made.


Kusama
kusama/9070
#8,192,502
Wiki
Staking
bonding preferences
3. Follow **on-screen instructions** carefully.
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
controller account
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByN...
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.
Stash account (increase the amount at stake)
Stash account (increase the amount at stake)
Stash account (do not increase the amount at stake)
Controller account
Specified payment account
Cancel
Set reward destination
stashes
Stash
Stop



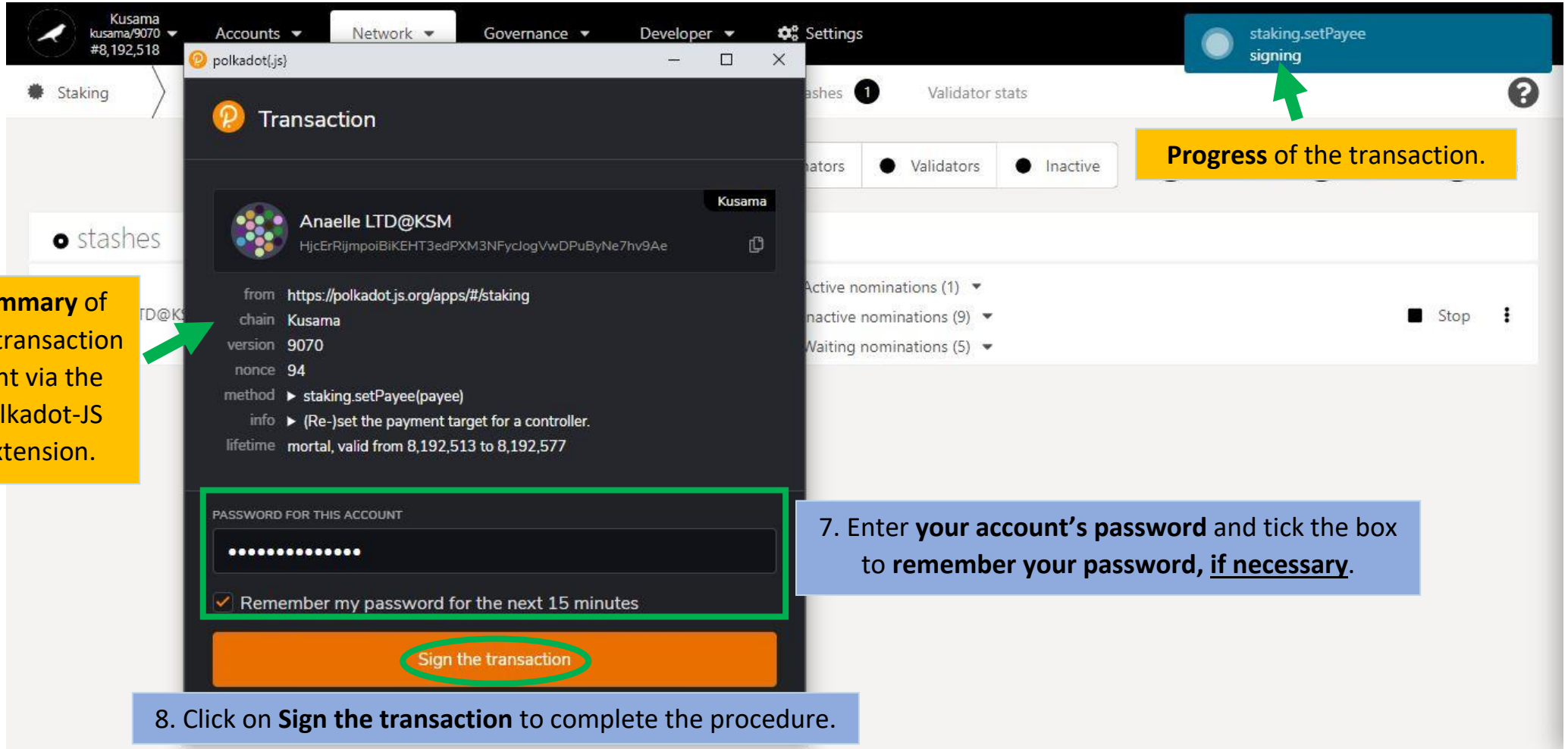
4. Click on **Set reward destination** to continue the procedure.

Nature of the transaction.



5. Check the **transaction fees**.

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



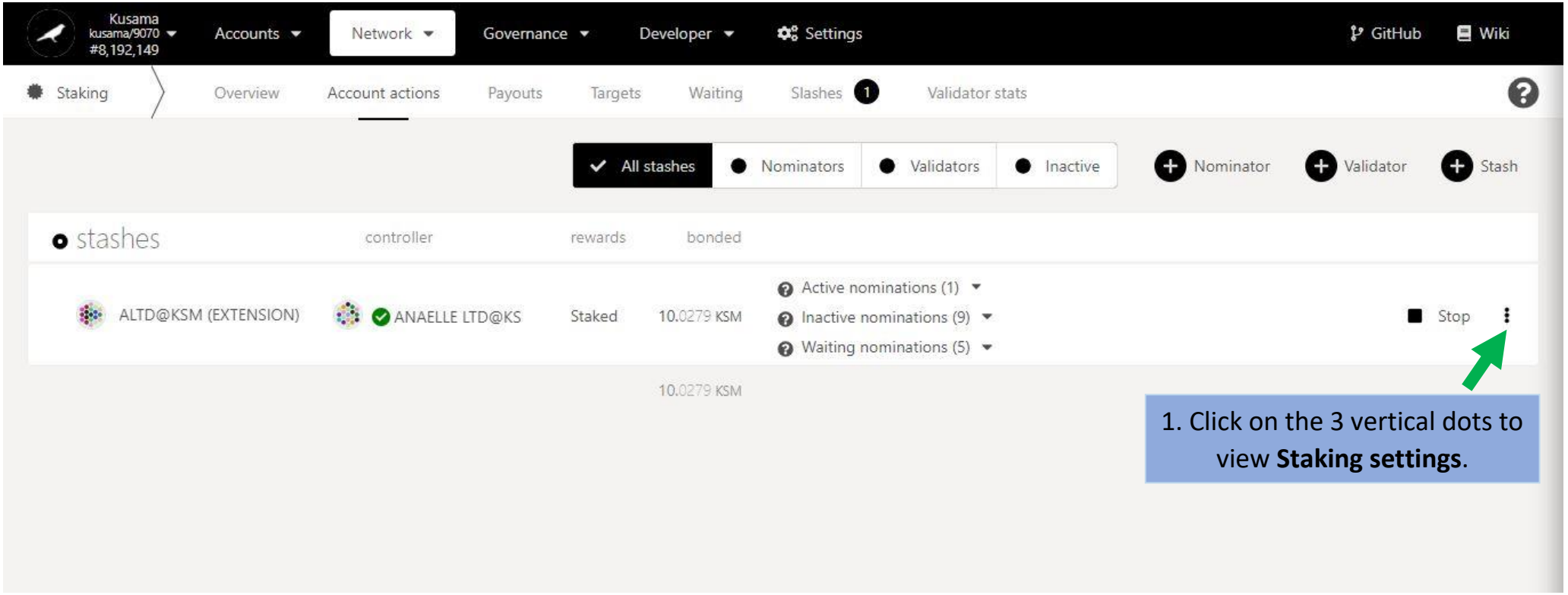
Summary of the transaction sent via the Polkadot-JS extension.

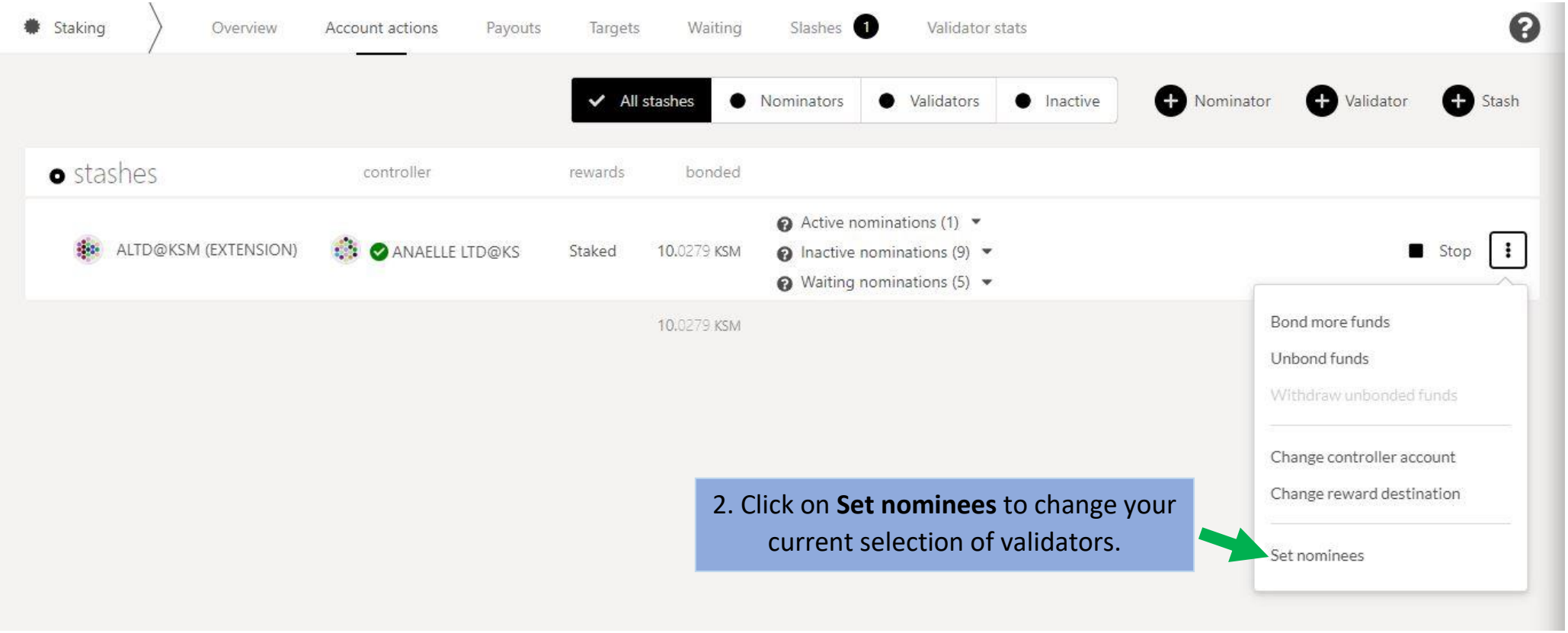
Progress of the transaction.

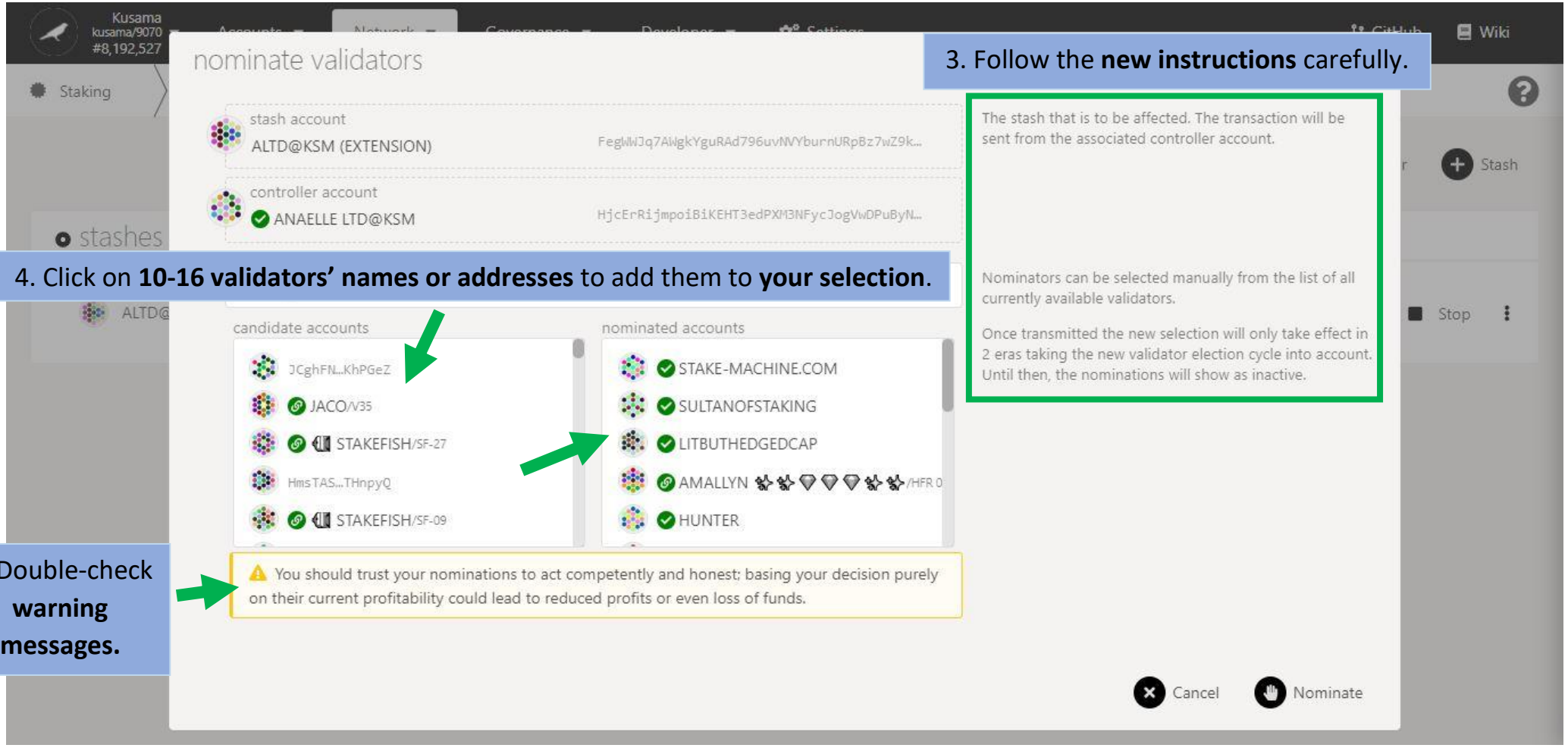
7. Enter **your account's password** and tick the box to **remember your password, <u>if necessary</u>**.

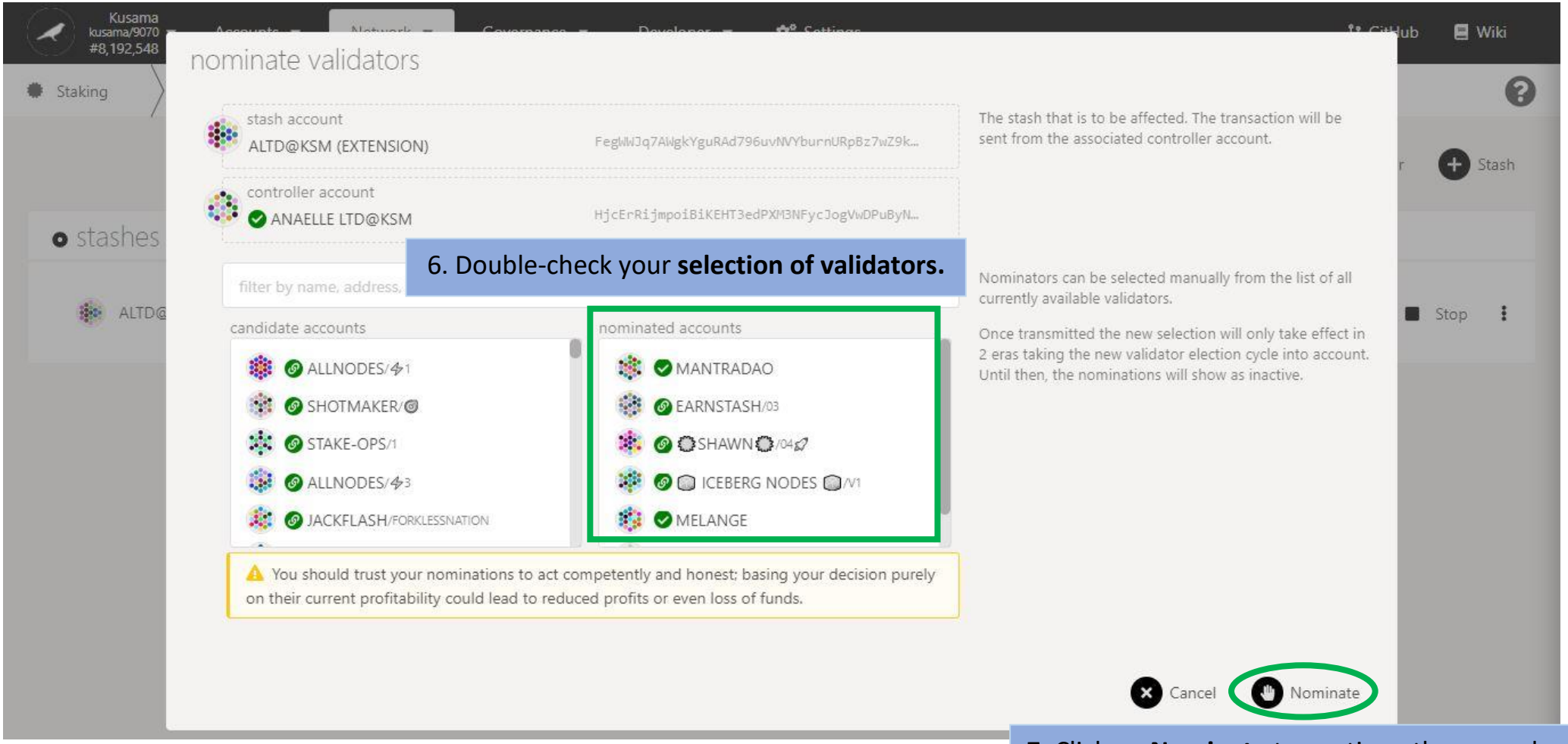
8. Click on **Sign the transaction** to complete the procedure.

- Set nominees.

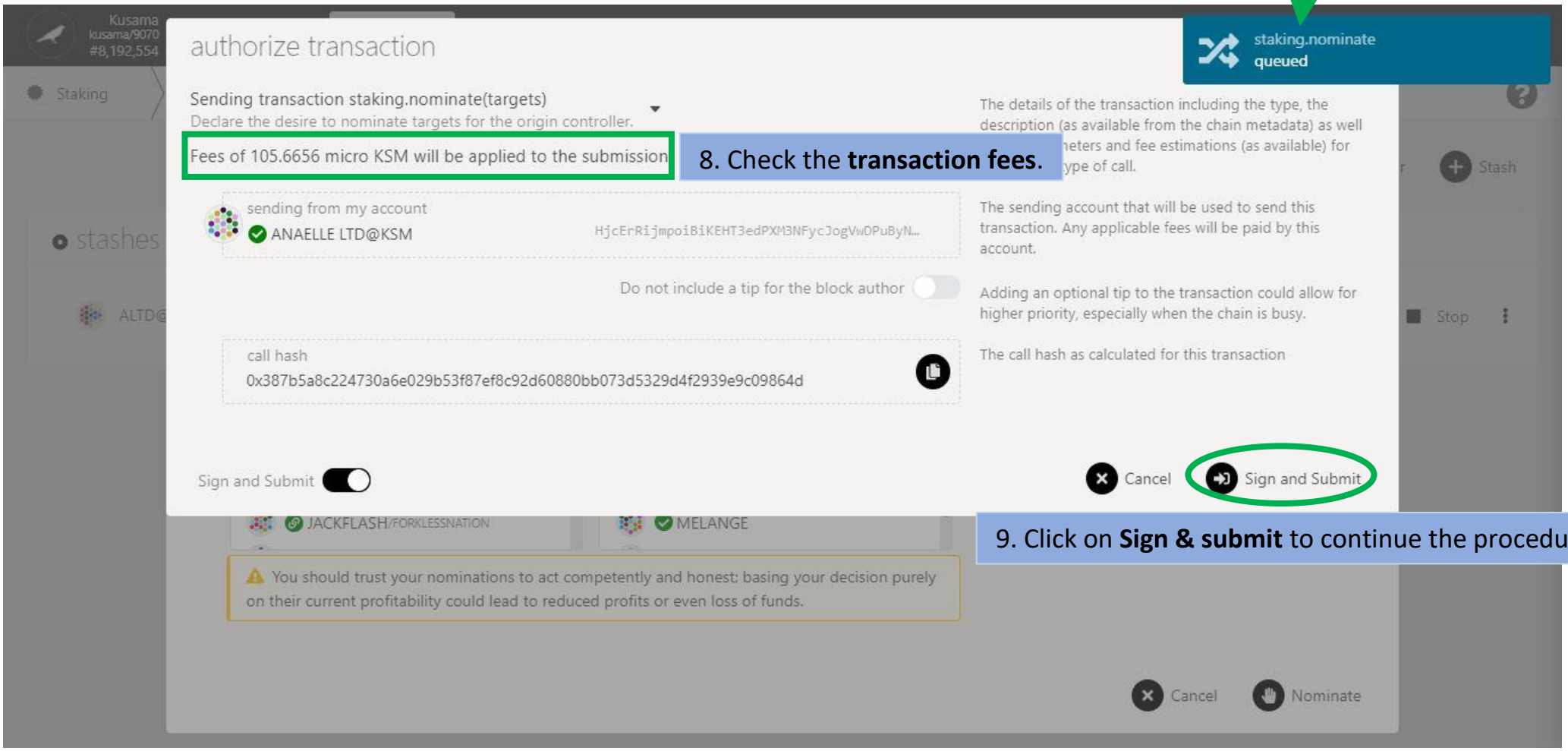


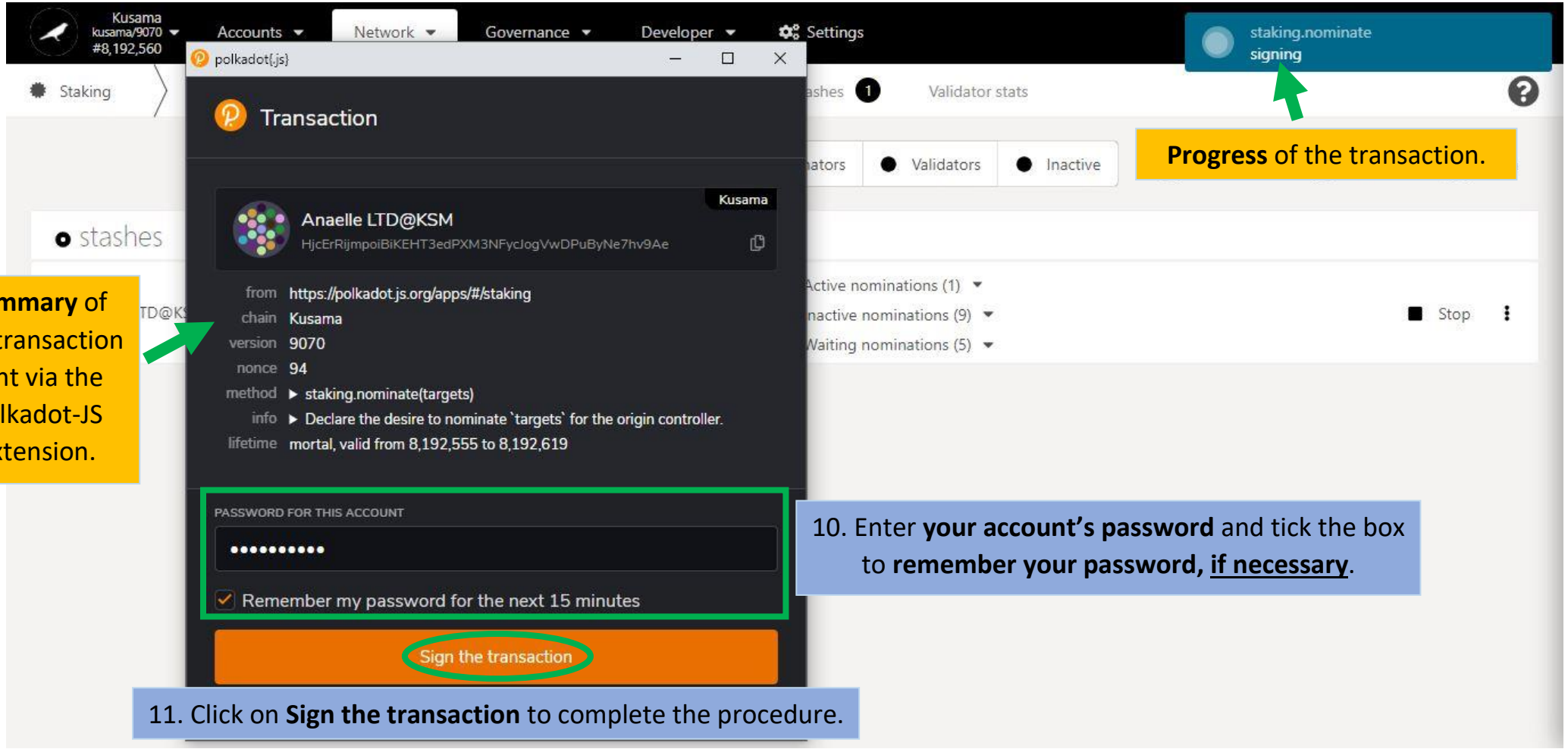

Staking
Overview
Account actions
Payouts
Targets
Waiting
Slashes 1
Validator stats
All stashes
Nominators
Validators
Inactive
Nominator
Validator
Stash
stashes
controller
rewards
bonded
ALTD@KSM (EXTENSION)
ANAELLE LTD@KS
Staked
10.0279 KSM
Active nominations (1)
Inactive nominations (9)
Waiting nominations (5)
Stop
10.0279 KSM
Bond more funds
Unbond funds
Withdraw unbonded funds
Change controller account
Change reward destination
Set nominees
2. Click on **Set nominees** to change your current selection of validators.


Kusama
kusama/9070
#8,192,527
Wiki
Staking
nominate validators
3. Follow the **new instructions** carefully.
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
controller account
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByN...
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.
Stash
stashes
Stop
4. Click on **10-16 validators' names or addresses** to add them to **your selection**.
candidate accounts
nominated accounts
JCghFN...KhPGeZ
JACO/V35
STAKEFISH/SF-27
HmsTAS...THnpyQ
STAKEFISH/SF-09
STAKE-MACHINE.COM
SULTANOFSTAKING
LITBUTHEDGEDCAP
AMALLYN
HUNTER
5. 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.
Cancel
Nominate


Kusama
kusama/9070
#8,192,548
Staking
stashes
ALTD@
Stash
Stop
nominate validators
stash account
ALTD@KSM (EXTENSION)
FegWWJq7AWgkYguRAd796uvNVYburnURpBz7wZ9k...
The stash that is to be affected. The transaction will be sent from the associated controller account.
controller account
ANAELLE LTD@KSM
HjcErRijmpoiBiKEHT3edPXM3NFycJogVwDPuByN...
6. Double-check your **selection of validators.**
filter by name, address,
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/1
SHOTMAKER/
STAKE-OPS/1
ALLNODES/3
JACKFLASH/FORKLESSNATION
nominated accounts
MANTRADAO
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.
Cancel
Nominate
7. Click on **Nominate** to continue the procedure.

Nature of the transaction.





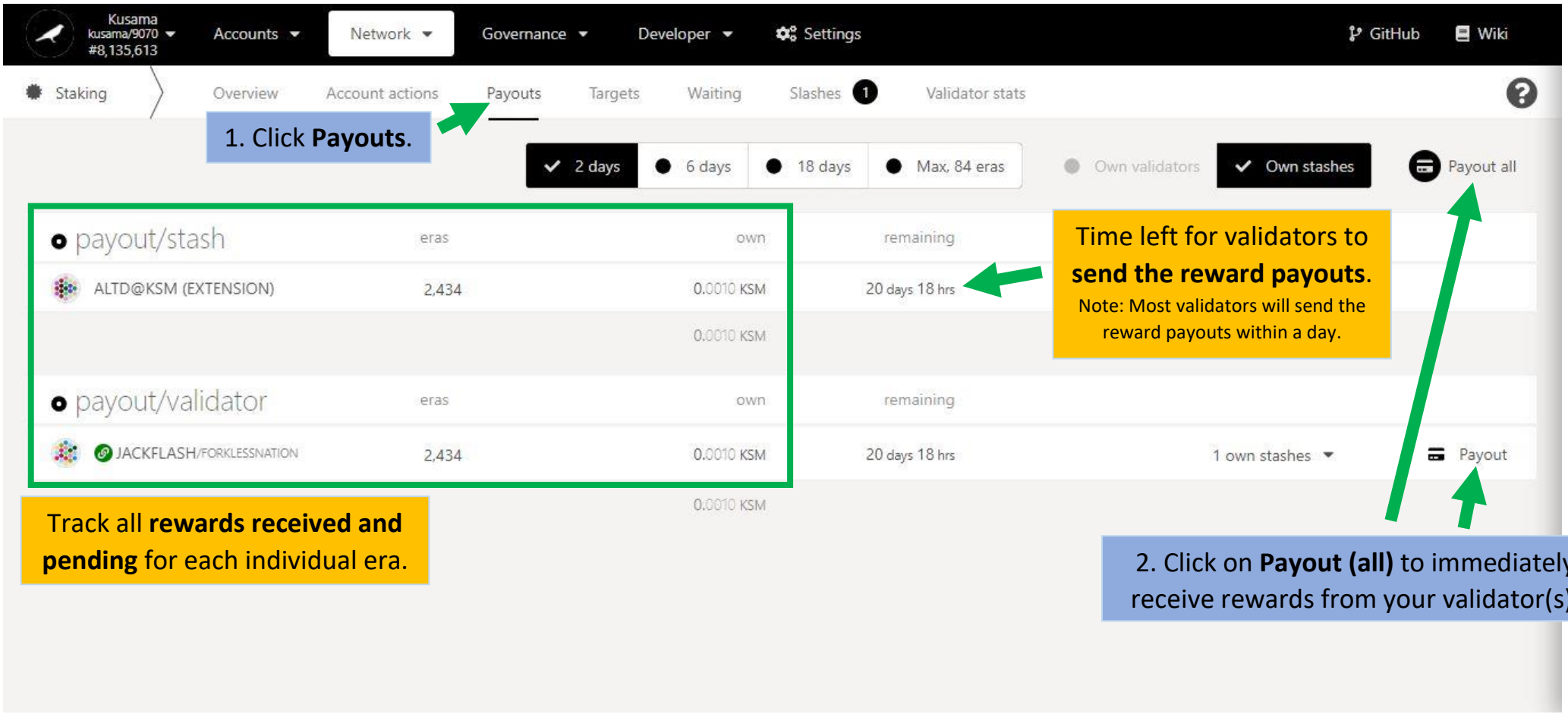
Progress of the transaction.

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

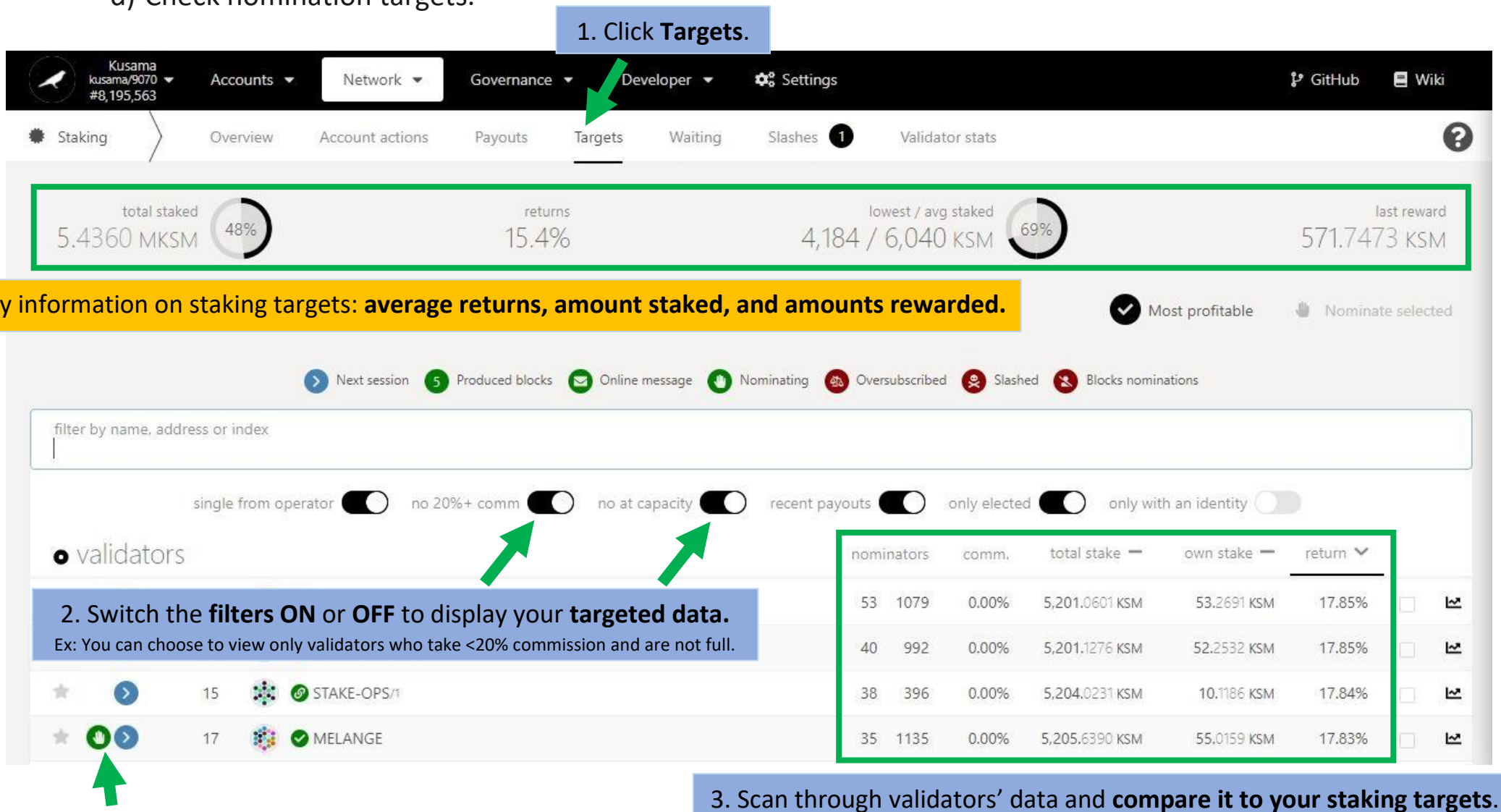
10. Enter **your account's password** and tick the box to **remember your password, <u>if necessary</u>**.

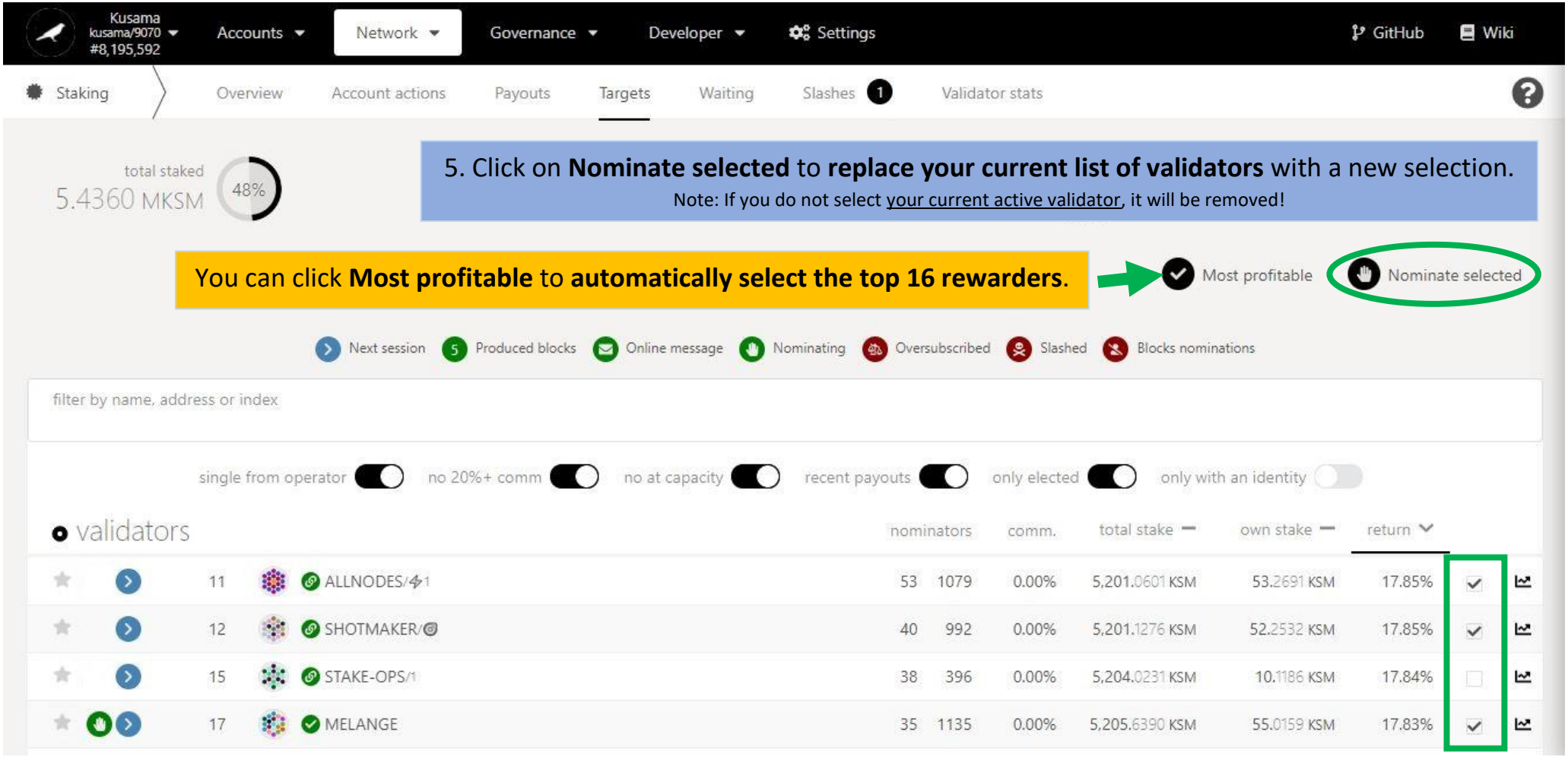
11. Click on **Sign the transaction** to complete the procedure.

c) Check payouts from recent eras.



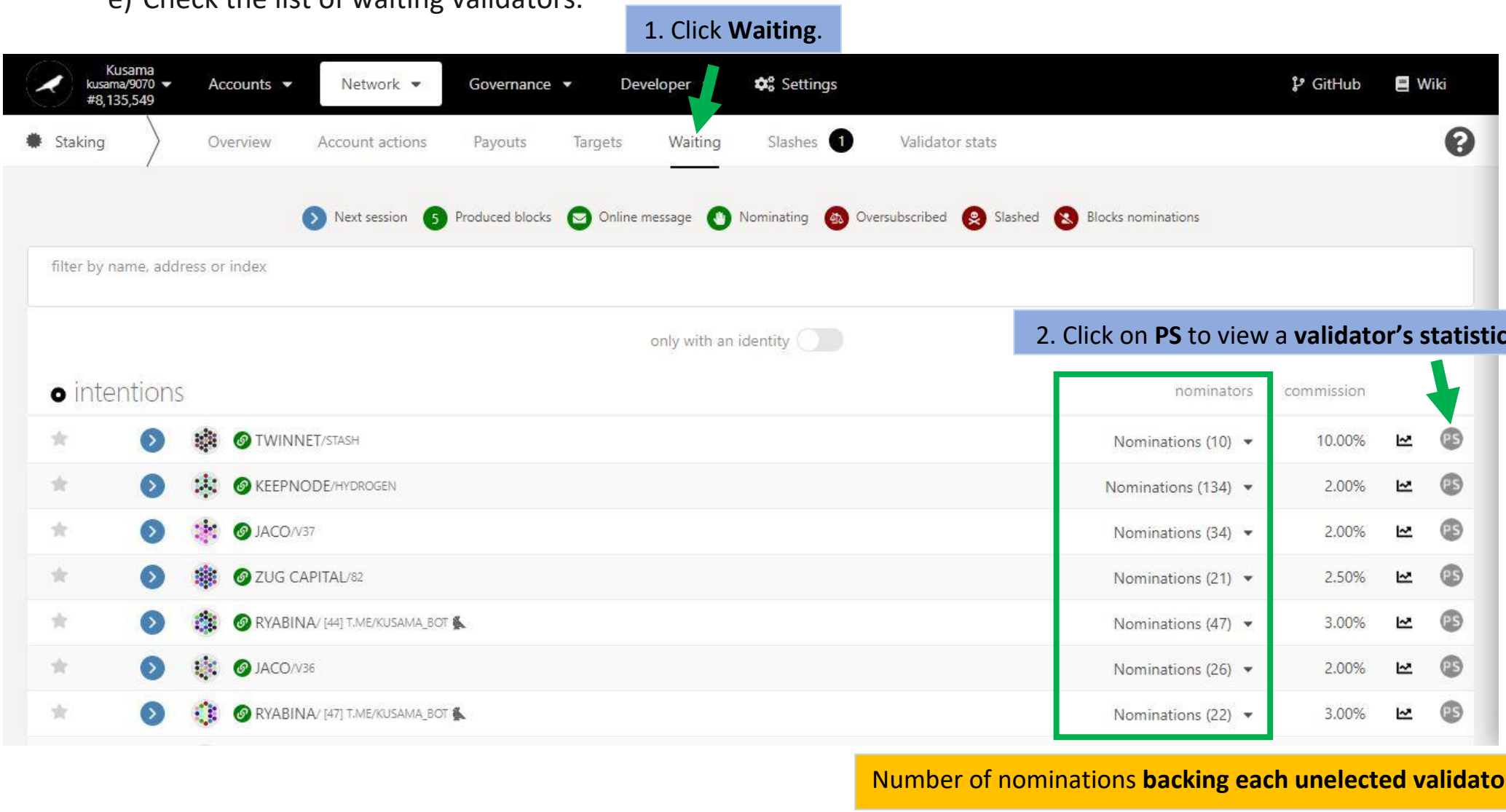
d) Check nomination targets.



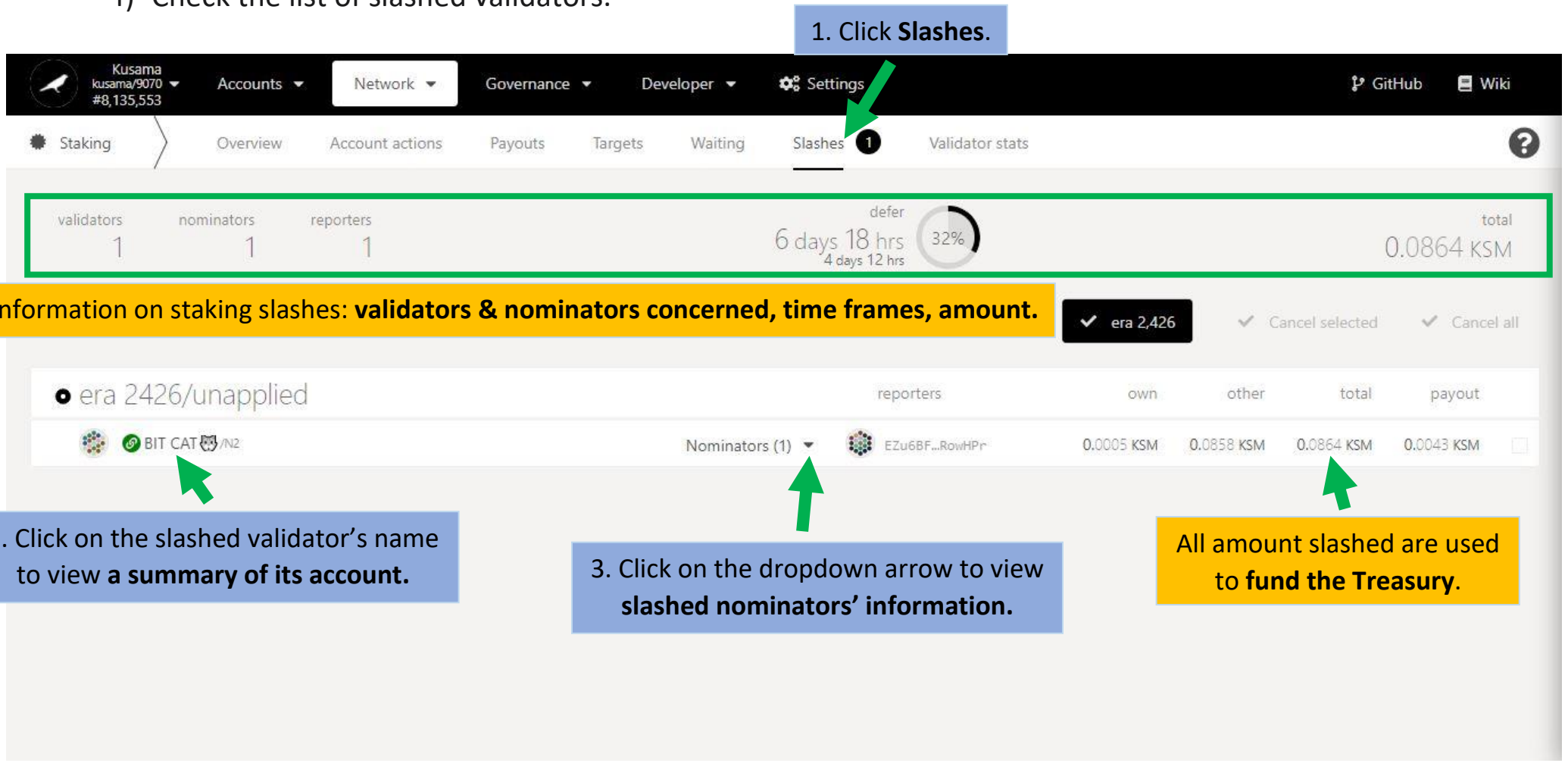
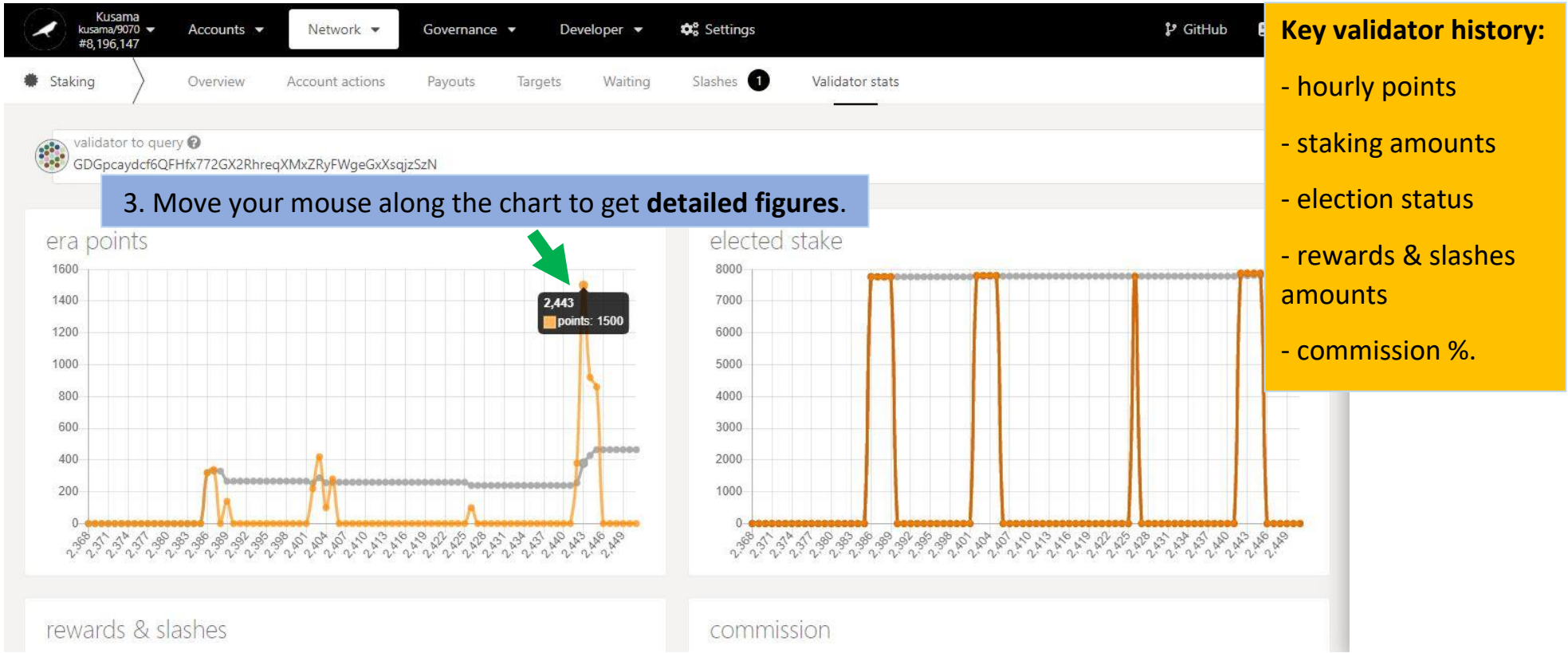


4. Tick the box to select **10-16 validators that match** your staking targets.

e) Check the list of waiting validators.



f) Check the list of slashed validators.



g) Check the statistics of individual validators.