

PART V: Substrate setups

1. Substrate accounts: Set Substrate networks for your Polkadot-JS accounts.

a) View account settings.

1. Click on the **Polkadot-JS extension icon** to reveal the Accounts window.

2. Click on the **3 vertical dots** to reveal the Account settings window.

filter by name or tags	type	tags
accounts		
★ ALTD@KSM (EXTENSION)	injected	no tags
★ ANAELLE LTD@KSM	injected	

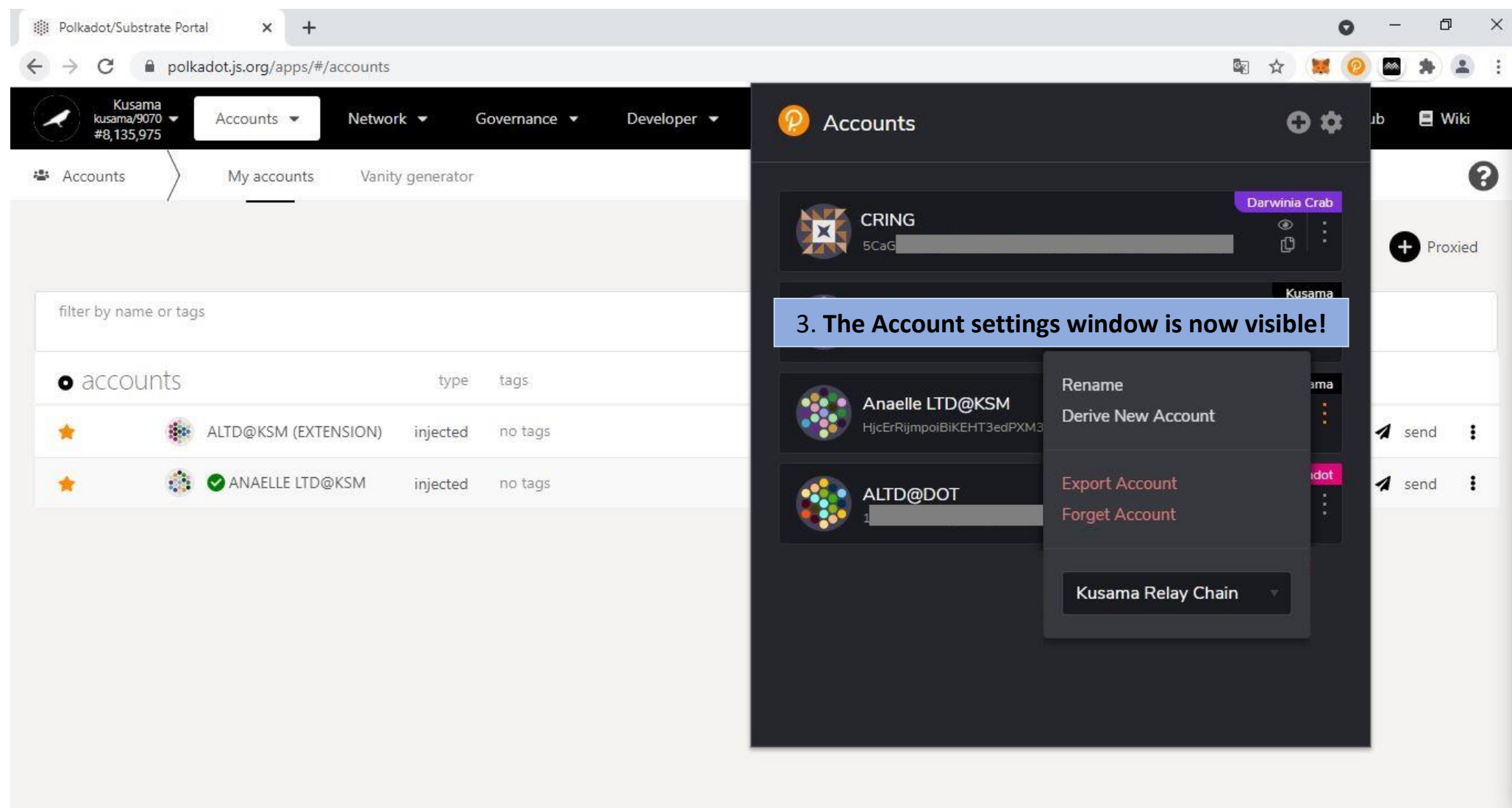
Accounts	Network	Governance	Developer
Kusama kusama/9070 #8,135,968	Accounts	My accounts	Vanity generator

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GUIDE TO POLKADOT-JS – PART V: Substrate setups

Version 2.0



The screenshot shows the Polkadot/Substrate Portal interface. The main page displays a list of accounts under the heading "accounts". The table has columns for "type" and "tags". The accounts listed are:

name	type	tags
ALTD@KSM (EXTENSION)	injected	no tags
ANAELLE LTD@KSM	injected	no tags

A modal window titled "Accounts" is open, showing a list of accounts. The accounts listed are:

- CRING (5CaG...)
- Anaelle LTD@KSM (HjcErRijmpoiBiKEHT3edPXM3...)
- ALTD@DOT (1...)

A context menu is open for the "Anaelle LTD@KSM" account, showing the following options:

- Rename
- Derive New Account
- Export Account
- Forget Account

A blue banner at the top of the modal window reads: "3. The Account settings window is now visible!"

b) Manage Substrate networks.

The screenshot shows the Polkadot/Substrate Portal interface. The main navigation bar includes 'Accounts', 'Network', 'Governance', and 'Developer'. The 'Accounts' section is active, displaying a list of accounts under the 'My accounts' tab. The list includes 'ALTD@KSM (EXTENSION)' and 'ANAELLE LTD@KSM', both marked as 'injected'.

A modal window titled 'Accounts' is open, showing a list of accounts with their respective icons and names. A dropdown menu is visible, listing various Substrate networks: 'Darwinia Crab', 'Kusama', 'Kusama Relay Chain', and others. A green arrow points to the 'Kusama Relay Chain' option in the dropdown.

1. Click on the **dropdown arrow** to show the list of Substrate networks.

GUIDE TO POLKADOT-JS – PART V: Substrate setups

Version 2.0

The screenshot shows the Polkadot/Substrate Portal interface. The top navigation bar includes 'Accounts', 'Network', 'Governance', and 'Developer'. The 'Accounts' dropdown menu is open, displaying a list of Substrate networks. A green arrow points to the 'Crust Maxwell' option in the list. A blue callout box with white text is overlaid on the interface, providing instructions on how to select a network.

2. Select one Substrate network from the list or choose **Allow use on any chain** to access all Substrate networks.

The dropdown menu lists the following networks:

- Allow use on any chain
- Polkadot Relay Chain
- Kusama Relay Chain
- Acala Mandala TC5
- Acala Mandala TC6
- Bifrost Asgard CC4
- Bit.Country Tewai Chain
- ChainX
- Crust Maxwell
- Darwinia
- Darwinia Crab
- Dock Mainnet
- Edgeware
- Equilibrium Network
- EquilibriumTestnet
- Galois
- HydraDX
- Jupiter A1
- Karura
- Kulupu
- Kusama Relay Chain

The main content area shows a table of accounts:

filter by name or tags	accounts	type	tags
★	ALTD@KSM (EXTENSION)	injected	no tags
★	✓ ANAELLE LTD@KSM	injected	no tags

GUIDE TO POLKADOT-JS – PART V: Substrate setups

Version 2.0

The screenshot displays the Polkadot.js Accounts interface. On the left, a sidebar shows the 'Accounts' menu. The main area is titled 'Accounts' and features a search bar 'filter by name or tags'. Below this is a table of accounts:

accounts	type	tags
ALTD@KSM (EXTENSION)	injected	no tags
ANAELLE LTD@KSM	injected	no tags

On the right, a detailed view of the 'Accounts' panel shows a list of accounts. The account 'Crust Maxwell' is highlighted with a green circle. Other accounts visible include 'CRING', 'Anaelle LTD@KSM', and 'ALTD@DOT'. The 'Crust Maxwell' account is associated with the 'Darwinia Crab' network.

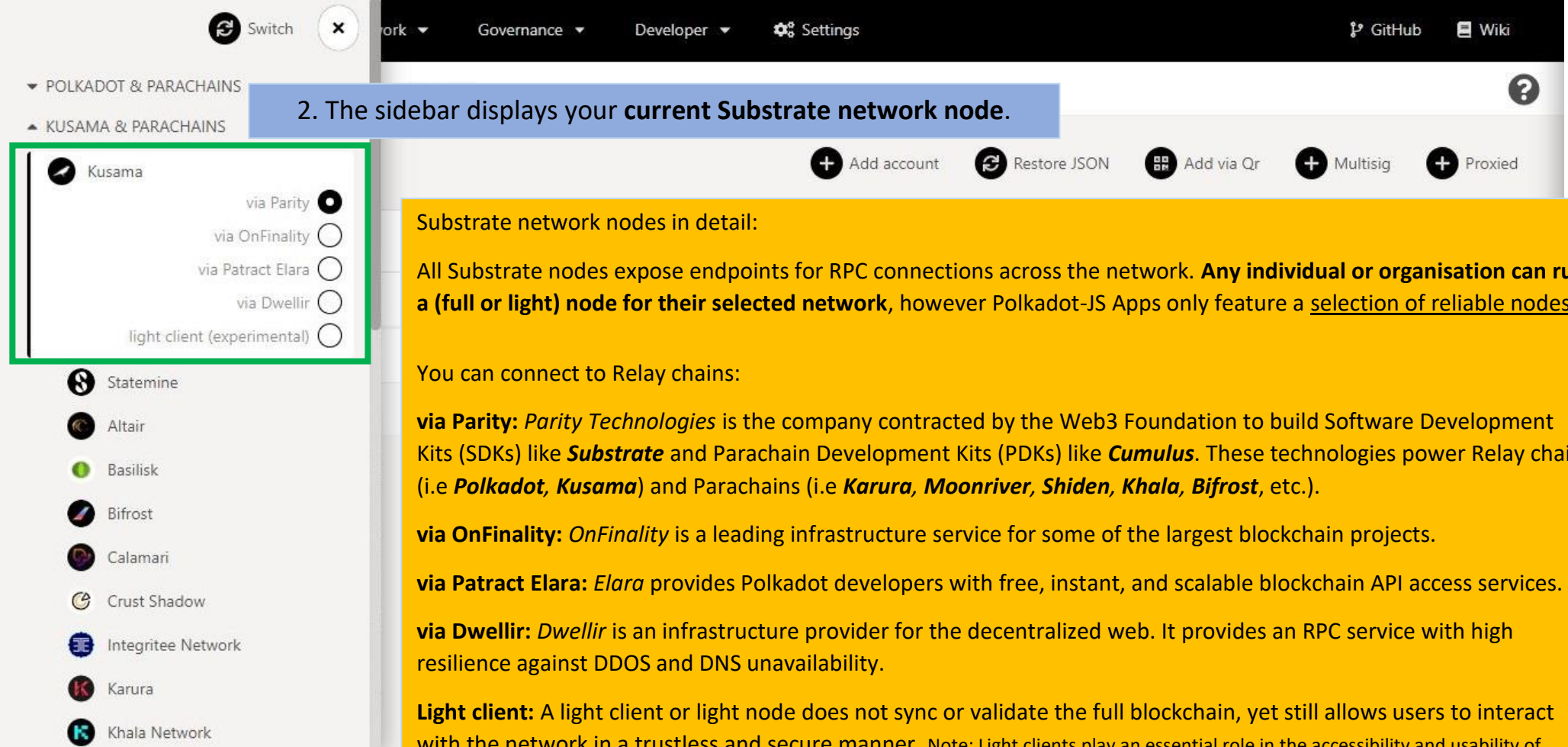
3. Your account is now set up to access your chosen Substrate network.

2. Substrate chains: Switch between Relay chain/Parachain/Testnets' interfaces.

a) View Substrate network nodes.

The screenshot shows the Polkadot.js interface. At the top, there is a navigation bar with a profile icon, the text 'Kusama kusama/9070 #8,137,536', and several dropdown menus: 'Accounts', 'Network', 'Governance', 'Developer', and 'Settings'. On the right side of the navigation bar are links for 'GitHub' and 'Wiki'. Below the navigation bar, there is a sidebar with 'Accounts', 'My accounts', and 'Vanity generator'. A green arrow points to the 'Accounts' dropdown menu in the navigation bar. A blue callout box with the text '1. Click on the **dropdown arrow** to show the Substrate networks sidebar.' is positioned over the 'Accounts' dropdown. The main content area shows a list of accounts under the heading 'accounts'. The list has columns for 'type' and 'tags'. There are two accounts listed: 'ALTD@KSM (EXTENSION)' and 'ANAELLE LTD@KSM'. Both are 'injected' and have 'no tags'. The 'balances' column shows '10.3509 KSM' and '1.0376 KSM' respectively. At the bottom right, there is a total balance of '11.3886 KSM'.

	type	tags	balances
★ ALTD@KSM (EXTENSION)	injected	no tags	10.3509 KSM
★ ANAELLE LTD@KSM	injected	no tags	1.0376 KSM
			11.3886 KSM



2. The sidebar displays your **current Substrate network node**.

Substrate network nodes in detail:

All Substrate nodes expose endpoints for RPC connections across the network. **Any individual or organisation can run a (full or light) node for their selected network**, however Polkadot-JS Apps only feature a selection of reliable nodes.

You can connect to Relay chains:

- via Parity:** *Parity Technologies* is the company contracted by the Web3 Foundation to build Software Development Kits (SDKs) like **Substrate** and Parachain Development Kits (PDKs) like **Cumulus**. These technologies power Relay chains (i.e **Polkadot**, **Kusama**) and Parachains (i.e **Karura**, **Moonriver**, **Shiden**, **Khala**, **Bifrost**, etc.).
- via OnFinality:** *OnFinality* is a leading infrastructure service for some of the largest blockchain projects.
- via Patract Elara:** *Elara* provides Polkadot developers with free, instant, and scalable blockchain API access services.
- via Dwellir:** *Dwellir* is an infrastructure provider for the decentralized web. It provides an RPC service with high resilience against DDOS and DNS unavailability.

Light client: A light client or light node does not sync or validate the full blockchain, yet still allows users to interact with the network in a trustless and secure manner. Note: Light clients play an essential role in the accessibility and usability of blockchain networks, as they can run on most mobile devices and still provide an optimal user experience.

You can connect to other Substrate chains via their respective network-specific nodes.

The screenshot shows the Polkadot.js website interface. On the left is a sidebar with a 'Switch' button and a list of categories: POLKADOT & PARACHAINS, KUSAMA & PARACHAINS, TEST WESTEND & PARACHAINS, TEST ROCOCO & PARACHAINS, LIVE NETWORKS, TEST NETWORKS, and DEVELOPMENT. The main content area has a dark header with 'Work', 'Governance', 'Developer', and 'Settings' menus, along with 'GitHub' and 'Wiki' links. Below the header, the title 'Substrate networks in detail' is visible. The main content is a large yellow box containing the following text:

Substrate networks in detail:

Polkadot & Parachains: The Polkadot mainnet and all its live Parachains.

Kusama & Parachains: The Canary network and all its live Parachains.

Note: Substrate networks must obtain a Parachain slot (via auction bids or Council motions) to become live on Polkadot or Kusama.

Test Westend & Parachains: The testnet used for testing Relay chain-related technologies. It requires WND tokens for all its operations.

Test Rococo & Parachains: The testnet used for testing Parachain-related technologies. It requires ROC tokens for all its operations.

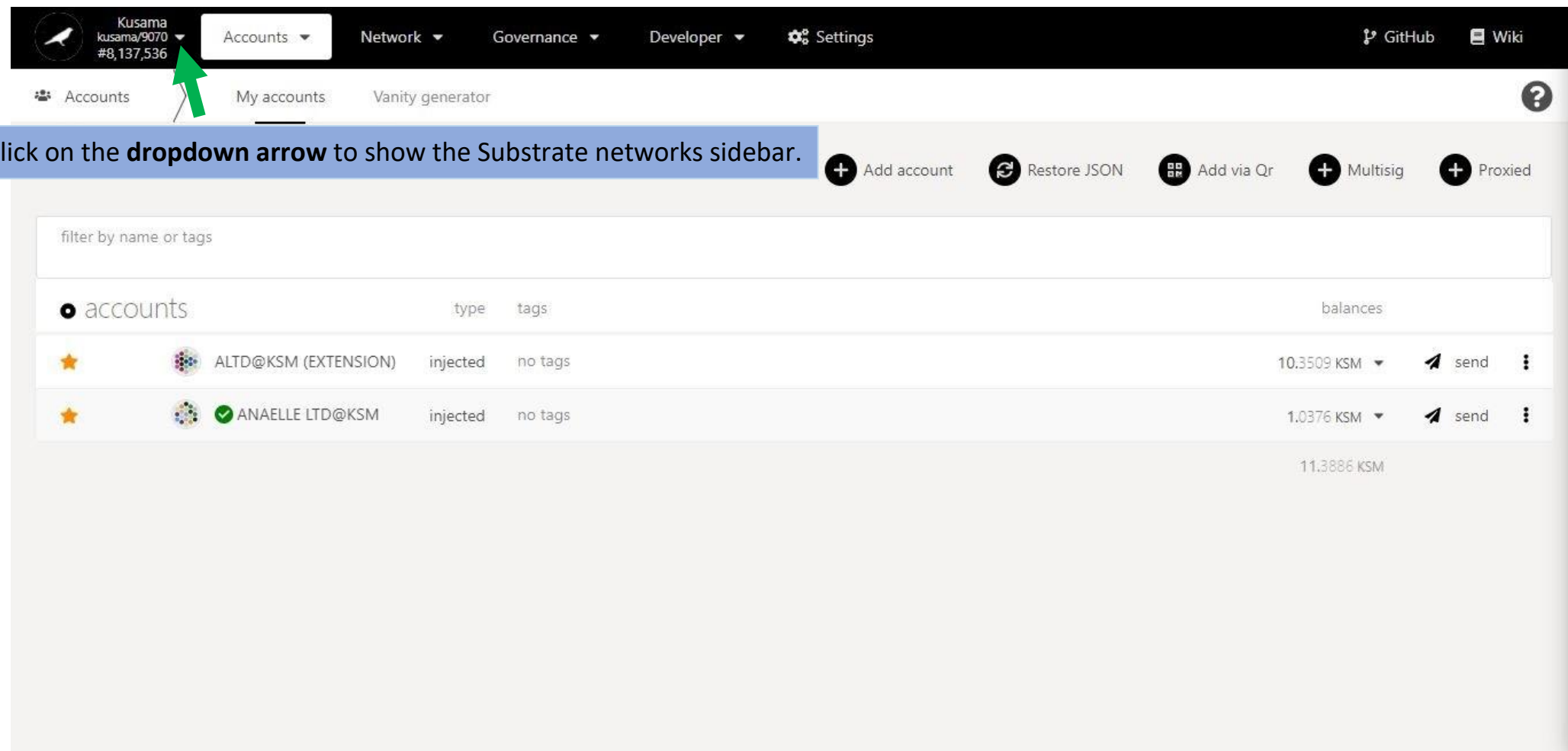
Note: Substrate networks must register a ParaID to participate in Parachain Slot auctions on Polkadot or Kusama.

Live Networks: Standalone Substrate chains that have deployed their mainnet.




Test Networks: Standalone Substrate chains that are preparing for mainnet deployment.

Development: Standalone Substrate playgrounds.

b) Manage Substrate network interfaces.



1. Click on the **dropdown arrow** to show the Substrate networks sidebar.

filter by name or tags			
accounts	type	tags	balances
★  ALTD@KSM (EXTENSION)	injected	no tags	10.3509 KSM ▼ ↗ send ⋮
★   ANAELLE LTD@KSM	injected	no tags	1.0376 KSM ▼ ↗ send ⋮
			11.3886 KSM

GUIDE TO POLKADOT-JS – PART V: Substrate setups

Version 2.0

The screenshot shows the Polkadot.js interface. A blue callout box points to the sidebar with the text: "2. The sidebar displays your current Substrate network node." The sidebar is divided into two sections: "POLKADOT & PARACHAINS" and "KUSAMA & PARACHAINS". Under "KUSAMA & PARACHAINS", the "Kusama" network is selected, and the "via Parity" option is chosen. Below this, a list of other networks is visible: Statemine, Altair, Basilisk, Bifrost, Calamari, Crust Shadow, Integritee Network, Karura, and Khala Network. The main area of the interface shows a table of accounts and balances. The table has columns for "type", "tags", and "balances". There are two rows of accounts, both labeled "injected" with "no tags". The first row shows a balance of 10.3509 KSM, and the second row shows a balance of 1.0376 KSM. A total balance of 11.3886 KSM is displayed at the bottom.

2. The sidebar displays your current Substrate network node.

type	tags	balances
injected	no tags	10.3509 KSM
injected	no tags	1.0376 KSM
		11.3886 KSM

GUIDE TO POLKADOT-JS – PART V: Substrate setups

Version 2.0

The screenshot shows the Polkadot.js interface. On the left, a sidebar dropdown menu is open for the 'Kusama' network. The menu options are:

- via Parity (selected)
- via OnFinality
- via Patract Elara
- via Dwellir
- light client (experimental)

Below these are other networks: Statemine, Altair, Basilisk, Bifrost, Calamari, Crust Shadow, Integritee Network, Karura, and Khala Network.

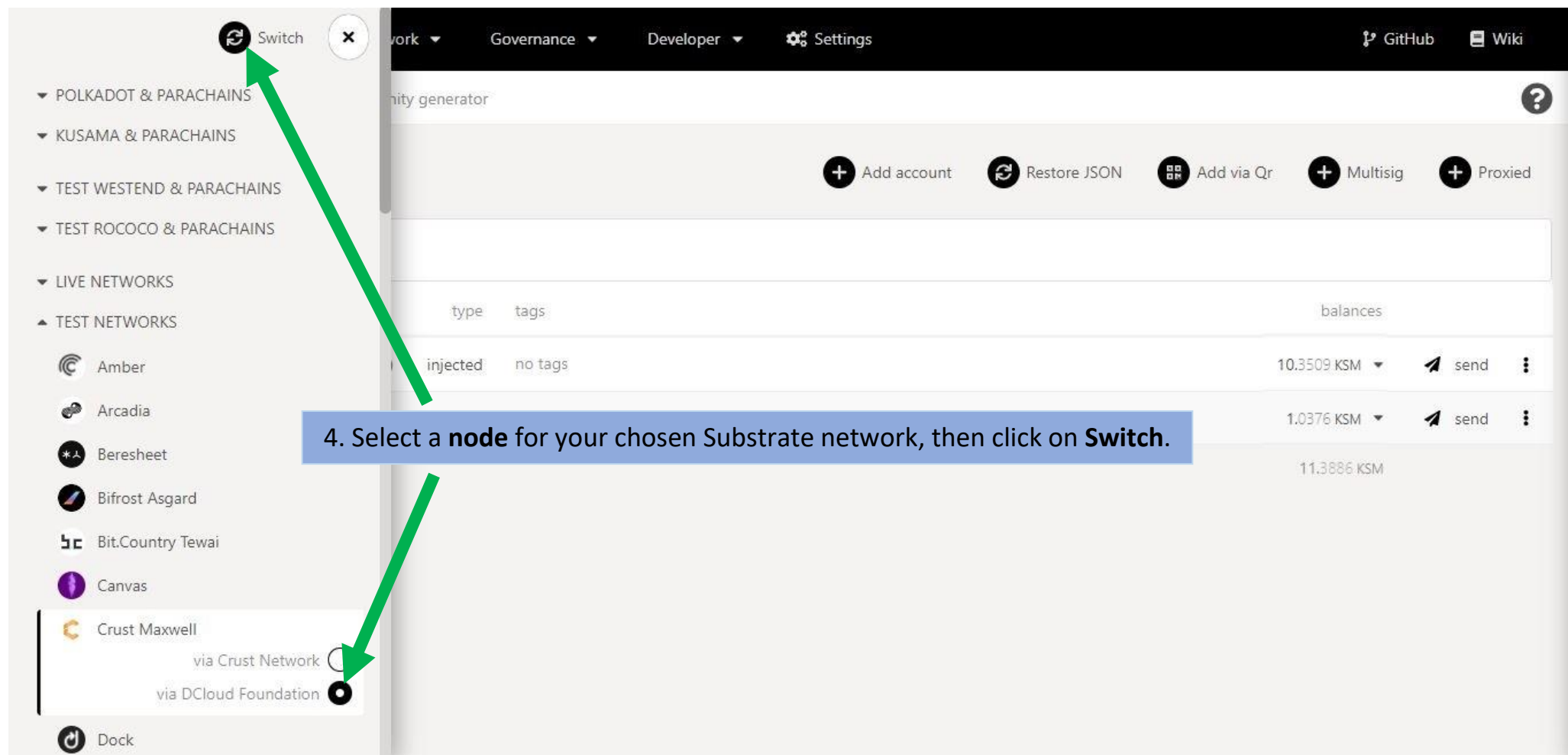
The main interface shows a top navigation bar with 'Work', 'Governance', 'Developer', and 'Settings'. Below this is a 'Parity generator' section with buttons for 'Add account', 'Restore JSON', 'Add via Qr', 'Multisig', and 'Proxied'. A table lists accounts with columns for 'type', 'tags', and 'balances'.

type	tags	balances
injected	no tags	10.3509 KSM
injected	no tags	1.0376 KSM
		11.3886 KSM

A blue callout box with a green arrow pointing to the sidebar dropdown menu contains the text: "3. Navigate the sidebar dropdown menus to find your chosen Substrate network."

GUIDE TO POLKADOT-JS – PART V: Substrate setups

Version 2.0



4. Select a **node** for your chosen Substrate network, then click on **Switch**.

The interface shows a sidebar with a list of networks under 'TEST NETWORKS':

- Amber
- Arcadia
- Beresheet
- Bifrost Asgard
- Bit.Country Tewai
- Canvas
- Crust Maxwell
 - via Crust Network
 - via DCloud Foundation
- Dock

The main area displays a table of accounts with columns for type, tags, and balances. The table shows one account with type 'injected', no tags, and a balance of 10.3509 KSM. There are also buttons for 'Add account', 'Restore JSON', 'Add via Qr', 'Multisig', and 'Proxied'.

5. You have successfully switched Substrate network interfaces!

The screenshot shows the Polkadot-JS interface. The top navigation bar is orange and contains the following elements from left to right: a profile icon for 'Crust Maxwell' with a balance of 'crust/25 #2,215,340', a dropdown menu for 'Accounts', and navigation links for 'Network', 'Governance', 'Developer', and 'Settings' (which has a notification badge '1'). On the far right of the bar are links for 'GitHub' and 'Wiki'. Below the navigation bar, there are tabs for 'Accounts', 'My accounts', and 'Vanity generator'. A green arrow points from the 'Settings' link in the navigation bar to a blue box containing the text '6. If prompted, update your settings.' Below this box is a yellow notification box with a green border that reads: 'You have 1 extensions that need to be updated with the latest chain properties in order to display the correct information for the chain you are connected to. This update includes chain metadata and chain properties. Visit your [settings page](#) to apply the updates to the injected extensions.' At the bottom of the interface, there is a search bar labeled 'filter by name or tags' and a table of accounts.

accounts	type	tags	balances
★ ANAELLE LTD@KSM (EXTENSION)	injected	no tags	0.0000 CRU send
			0.0000 CRU