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```
# `@elizaos/plugin-bnb`
```

This plugin enables interaction with the BNB Chain ecosystem, providing support for BNB Smart Chain, opBNB, and BNB Greenfield networks.

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## Configuration

### Default Setup

By default, \*\*plugin-bnb\*\* is not enabled. To use it, simply add your private key and/or public key to the `.env` file. If private key is not provided, some actions will be disabled.

\*\*Security Note:\*\* Your private key grants full access to your associated funds. Store it securely and never share it with anyone. Do not commit or upload your `.env` file to version control systems like Git.

```env BNB\_PRIVATE\_KEY=your-private-key-here BNB\_PUBLIC\_KEY=your-public-key-here

### Custom RPC URLs

By default, the RPC URL is inferred from the `viem/chains` config. To use custom RPC URLs, add the following to your `.env` file:

```env
BSC\_PROVIDER\_URL=https://your-custom-bsc-rpc-url
BSC\_TESTNET\_PROVIDER\_URL=https://your-custom-bsc-rpc-url
OPBNB\_PROVIDER\_URL=https://your-custom-opbnb-rpc-url

## Provider

The \*\*Wallet Provider\*\* initializes with BSC as the default. It:

- Provides the \*\*context\*\* of the currently connected address and its balance.
- Creates \*\*Public\*\* and \*\*Wallet clients\*\* to interact with the supported chains.

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## Actions

### Get Balance

Get the balance of an address on BSC. Just specify the:

- \*\*Chain\*\*
- \*\*Address\*\*
- \*\*Token\*\*

\*\*Example usage:\*\*

```bash

Get the USDC balance of 0x1234567890 on BSC. Get the BNB balance of 0x1234567890 on BSC Testnet.

### Transfer

Transfer tokens from one address to another on BSC/opBNB. Just specify the:

- \*\*Chain\*\*
- \*\*Token\*\*
- \*\*Amount\*\*
- \*\*Recipient Address\*\*

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```
- **Data**(Optional)
**Example usage:**
```bash
Transfer 1 BNB to 0xRecipient on BSC.
Transfer 1 USDC to 0xRecipient on BSC.
### Swap
Swap tokens from one address to another on BSC. Just specify the:
- **Chain**(Only BSC is supported for now)
- **Input Token**
- **Output Token**
- **Amount**
- **Slippage**(Optional)
**Example usage:**
```bash
Swap 0.001 BNB to USDC on BSC.
### Bridge
Bridge tokens from one chain to another on BSC/opBNB. Just specify the:
- **From Chain**
- **To Chain**
- **From Token**
- **To Token**
- **Amount**
- **Recipient Address**(Optional)
**Example usage:**
```bash
Bridge 0.001 BNB from BSC to opBNB.
Withdraw 0.001 BNB from opBNB to BSC
### Stake
Perform staking operations on BSC through [Lista Dao](https://lista.org/liquid-
staking/BNB). User will receive sliBNB(0xB0b84D294e0C75A6abe60171b70edEb2EFd14A1B) as
staking credit. Just specify the:
- **Chain**(Only BSC is supported for now)
- **Action**
- **Amount**
**Example usage:**
```bash
Deposit 0.0001 BNB to Lista Dao.
### Deploy
Deploy ERC1155/ERC721/ERC20 smart contract
**Example usage:**
```bash
Deploy an ERC20 token with name 'ClydePepper', symbol ClydePepper, decimals 18, total
supply 10000 on BSC
```

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## ### Faucet

Request testnet tokens from the faucet. You could request any of the supported tokens(BNB, BTC, BUSD, DAI, ETH, USDC). Just specify the:

- \*\*Token\*\*(Optional)
- \*\*Recipient Address\*\*

The faucet is rate-limited. One claim is allowed per IP address within a 24-hour period. And the recipient address must maintain a minimum balance of 0.002 BNB on BSC Mainnet to qualify.

\*\*Example usage:\*\*

```bash

Get some testnet USDC from the faucet.

```

### Greenfield

Support greenfield chain actions

- \*\*createBucket\*\*
- \*\*upload0bject\*\*
- \*\*deleteObject\*\*
- \*\*crossChainTransfer\*\*

\*\*Example usage:\*\*

- `create a bucket on greenfield TESTNET, and the name is test-eliza-2`
- `upload the attachment as an object to the greenfield, the bucket is "test-eliza-1" and object name is "test.png"`
- `delete object test.png from bucket "test-eliza-1" on Greenfield Testnet`
- `crossChainTransfer 0.01 bnb from BSC testnet to Greenfield Testnet`

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## Contribution

The plugin contains tests. Whether you're using \*\*TDD\*\* or not, please make sure to run the tests before submitting a PR.

### Running Tests

Navigate to the `plugin-bnb` directory and run:

```bash pnpm test