BNB CHAIN

# Building on BNB Tutorials

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# Tools to build on BNB Chain

# BNB CHAIN | BSC Scan

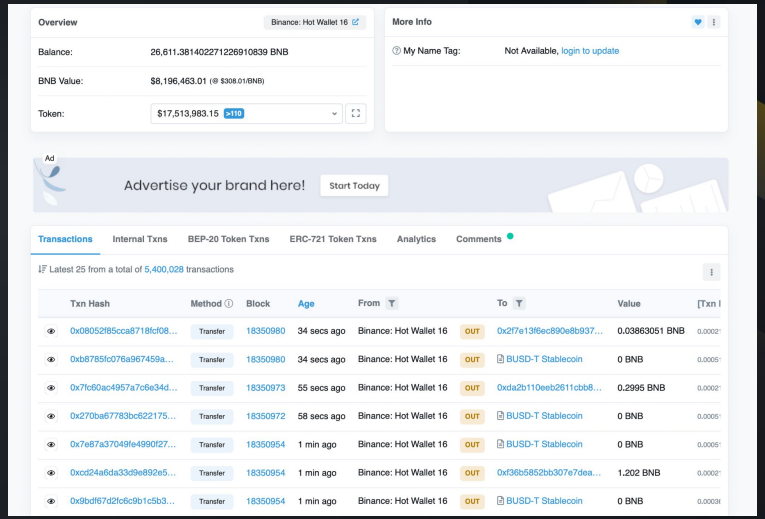
**BSC Scan - useful analysis & development tool**

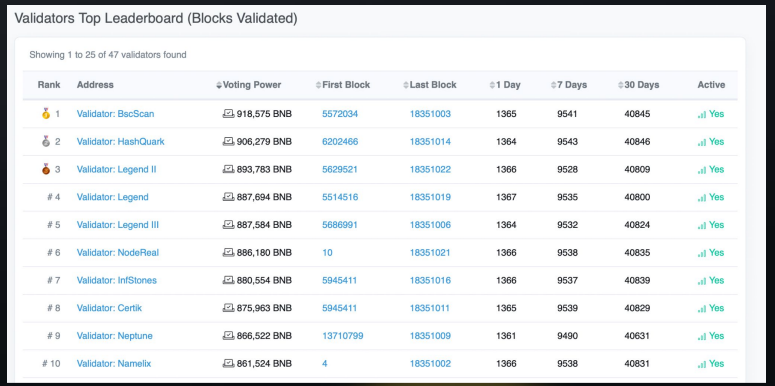
- **blockchain explorer** - all data on chain in real-time
- analytics tool for BNB Chain
- transactions and blocks as they are added
- wallet balances
- validators

**How can you use it:**

- during development
- check tx progress
- find smart contracts
- validate smart contracts
- on-chain analysis
- set up alerts to monitor transactions
- API endpoints
- on chain trading strategies

[https://bscscan.com](https://bscscan.com)

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# BNB CHAIN | Mainnet VS Testnet

| Mainnet | Testnet |
| --- | --- |
| Used for actual transactions with value. | Used for testing smart contracts and dapps. |
| Mainnet's network id is 56. | Testnet network id is 97. |
| Example – BSC Mainnet | Example – BSC Testnet |

SCAN ME

# BNB CHAIN | Helpful links and Resources

- Developer Resources
  - Forum
  - Roadmap
  - Discord
  - Whitepaper
  - Documentation docs
- Development Language
  - Solidity docs
- Faucet
  - BSC Faucet Testnet
- IDE and Libraries
  - BNB Chain Studio
  - Black IDE
  - Remix
  - BSC Client (base on Geth)
  - ChainIDE
- Explorer
  - BSC Scan Mainnet
  - BSC Scan Testnet
- Wallet
  - Trust Wallet
  - MetaMask Wallet
- Docker
  - Required for starting BSC node and compiling projects
  - BSC Docker Hub
- Participate
  - MVB Program
  - BUIDL Reward Leaderboad
  - Hackathon
  - Martian Program
  - Student Ambassador
  - Bug Bounty

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# BNB CHAIN | Development Tools

## Development

### Solidity Code Quality

Solhint · Ethlint · Manticore · Slither · Echidna

### Front-End Programming

Web3.js · Ethers.js

### Back-End Programming

Web3.py · Web3.php · Java Web3 · Net Web3 · Ruby Web3

### IDE

BSC Studio · Remix · Intellij Solidity Plugin · ChainIDE

### Development Framework

Truffle · Embark · Waffle · OpenZeppelin · HardHat

### Wallet SDK

Venly · Sequence.app · Web3Auth · BSC Connector

### MPC Wallets/Multisig

Qredo · Gnosis

## Decentralized Storage

IPFS · Arweave · pinata.cloud

## Data Oracles

Band Protocol · Chainlink · Pyth

## Blockchain Access

### Block Explorers

BscScan · BSCTrace · MINTSCAN

### Node and Archive Services

NodeReal · Ankr · Chainstack · NOW Nodes · QuickNode · BlockVision

Covalent · InfStones · Moralis · Gomu · Bounce Finance

### NFT Tools

NFTScan · BlockVision · Venly · NFTrade · PARSIQ

### Data Indexing

PARSIQ · Nakji

## Gasless Solutions

Biconomy

## Security Audit

CertiK · PeckShield · SlowMist · Staging Labs · Go+ / Go Plus · Verichains

HashDit · Halborn · Trail of Bits · Consensys Diligence · Zokyo

## Analytics & Dashboards

Dune · YieldWatch · Defistation · Bitquery · DeBank · Bloxy

Footprint Analytics · Web3Go

## Payment Gateway

Binance Connect · MoonPay · Transak · Okse · Kado · SuperFluid

Pip

## DAO Tools

Tally · Collab.Land · Coinshift · Snapshot · HQ.xyz

https://nodereal.io/bnb-dev-tools

# Future of BNB...

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# BNB CHAIN | Collaboration Opportunities

## Funds Support:

Sponsors of research and new development.

## Campus event :

BNB Chain would like to involved in any relevant blockchain events at campus. i.e., workshop, hackathon.

## Campus recruitment:

Organized roadshow and recruitment activities, campus and remote.

## Incubation of projects:

BNB is actively looking for unique and innovative projects that help grow

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# Two Web3 Incubators

## Most Valuable Builder & Binance Labs

Over 500 projects applied to MVB 5

**Mentorship:** Learn from the best builders and industry leaders

**Funding:** Get Funded at early stage

**Community:** Get to your users via our community

**Ecosystem:** Leverage our ecosystem for exposure & support

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# BNB CHAIN | Social media & communications

24x7 assistance on Discord

Developer Tutorials

Infra partners, tools

Contribute on Github

## 24x7 Developer Support

Ask. Collaborate. Contribute.

# Let’s build Web3 together on

BNB CHAIN

Ilya O. Blockchain - Crypto - Cloud
Solutions Engineer - Blockchain | Crypto | NFTs