
Hands-on Part

簡易的なNFTマーケットプレイスの構築

株式会社Neo Breakthrough

山科 優希

使用するもの

- *Google Chrome*
- *Metamask*
- *Mumbai Polygonscan*
- *thirdweb*

→ノーコードでコントラクトのデプロイが可能なweb3ツールの一種

The complete web3 development framework.

Everything you need to connect your apps or games to decentralized networks.

 **Start Building**

Completely free to use. No hidden fees.

```
$ npx thirdweb deploy |
```



Your application



 Dashboard

 SDKs

 Contracts



Blockchain



Search any contract

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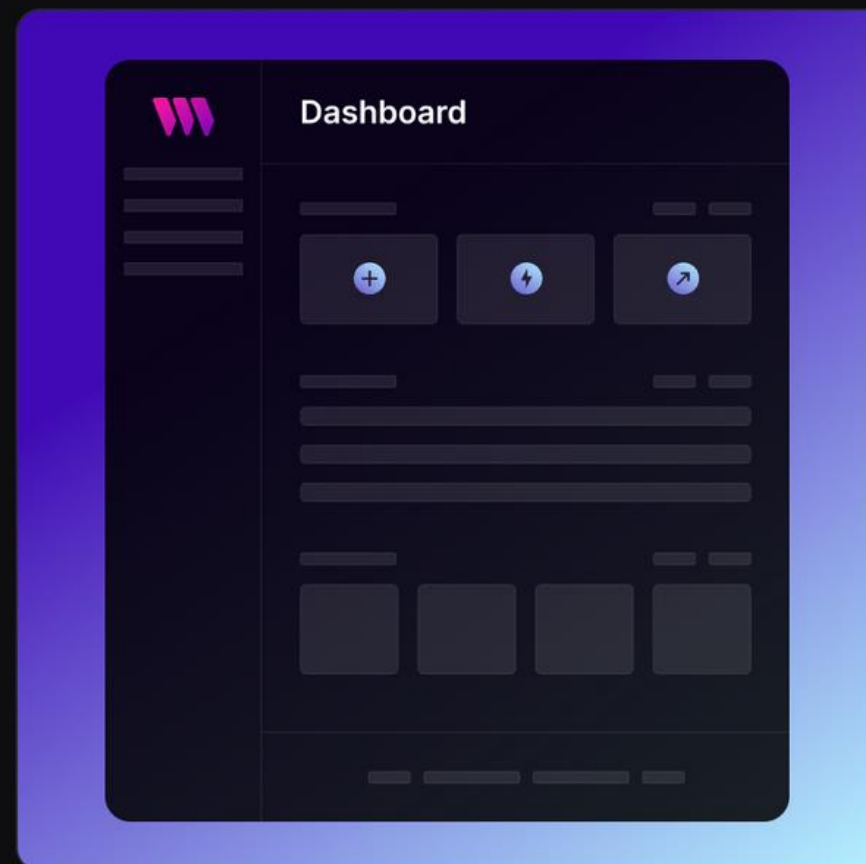
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Connect Wallet ▾

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Get started quickly



The complete web3 development framework.

Everything you need to connect your apps or games to decentralized networks. Powerful tools that simplify web3 development.

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Latest changes

- TypeScript SDK Docs For 30+ Extensions, Events, Transaction Builder, and more!
10 days ago
 - Fine-grained transaction control in the SDK
11 days ago
 - Instantaneous IPFS reuploads
11 days ago
 - Improved Contract Search
12 days ago
 - Any EVM support on Marketplace listing
19 days ago
- [View all changes →](#)



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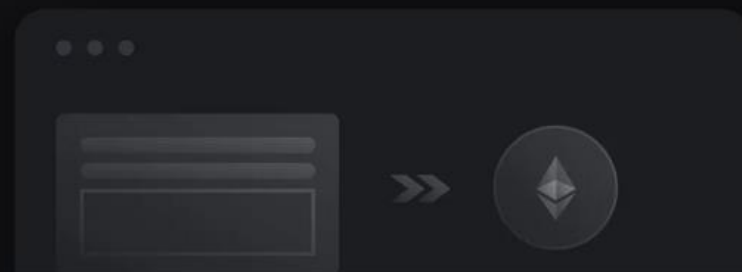
1.0414 MATIC
0x3C...272 (Mumbai)

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Get started quickly

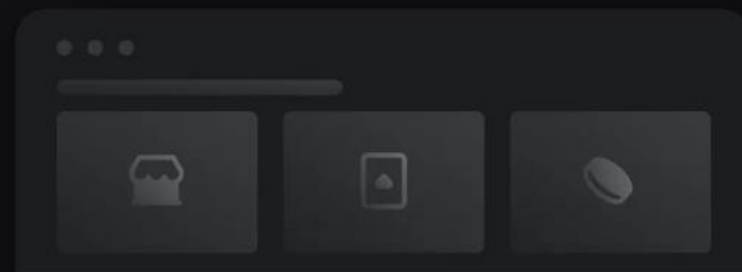
View contracts →

View smart contracts that you deployed or added to your dashboard.



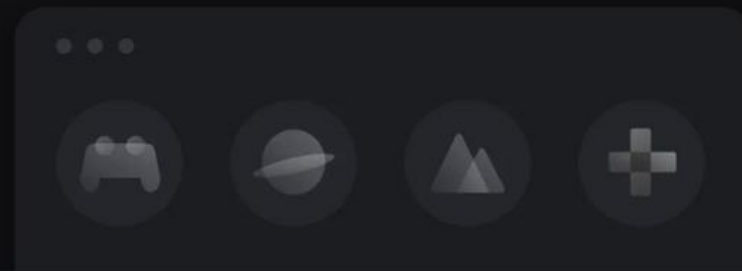
Browse contracts →

Explore contracts from world-class web3 protocols & engineers- all deployable with 1-click.



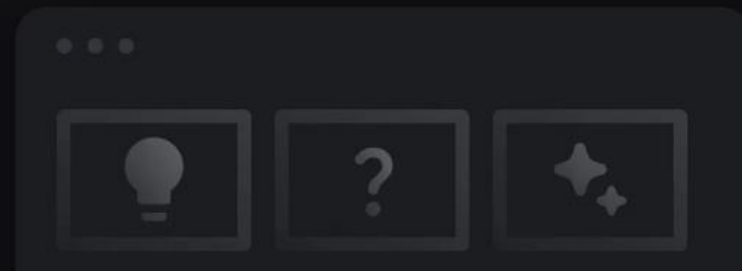
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Find guides, references and resources that will help you build with thirdweb.



Latest changes

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Deployed Contracts Published Contracts

Deployed contracts

The list of contract instances that you have deployed with thirdweb across all networks.

Import contract

Deploy contract +

NAME	CONTRACT TYPE	NETWORK	CONTRACT ADDRESS
Tohoku NFT Marketplace(test)	Marketplace	Mumbai Testnet	0x8E85...4255



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Explore

The best place for web3 developers to explore smart contracts from world-class web3 protocols & engineers — all deployable with one click.

Popular

A collection of our most deployed contracts.

<p>🛡️ Audited · v4.0.6</p> <h3>NFT Drop</h3> <p>Release collection of unique NFTs for a set price</p> <p>thirdweb.eth</p>	<p>🛡️ Audited · v2.0.2</p> <h3>Marketplace</h3> <p>Buy and sell ERC721/ERC1155 tokens</p> <p>thirdweb.eth</p>	<p>🛡️ Audited · v12.0.3</p> <h3>Membership</h3> <p>A membership contract that creates time-bound NFTs: subscriptions, tickets, certifications or...</p> <p>unlock-protocol.eth</p>
<p>🛡️ Audited · v4.0.6</p> <h3>Edition Drop</h3> <p>Release ERC1155 tokens for a set price.</p> <p>thirdweb.eth</p>	<p>🛡️ Audited · v1.0.6</p> <h3>Token</h3> <p>Create cryptocurrency compliant with ERC20 standard</p> <p>thirdweb.eth</p>	<p>🛡️ Audited · v1.0.2</p> <h3>StakeERC721</h3> <p>Contract for staking ERC721 NFTs, for ERC20 tokens as rewards.</p> <p>thirdweb.eth</p>



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Marketplace
Buy and sell ERC721/ERC1155 tokens

2.0.2 (latest)

Deploy now >>

thirdweb's Marketplace contract

A Marketplace is a contract where you can buy and sell NFTs, such as OpenSea or Rarible.

The Marketplace contract allows users to list NFTs for direct sale or auction. Other users can place offers/bids or buy the NFTs for the specified amount in the listing.

The marketplace can be configured to only allow certain users to list NFTs for sale, or allow any user to list NFTs for sale.

Use Cases & Examples

You could use the Marketplace contract to:

- Sell your NFTs on your marketplace
- Create auctions where the highest bidder, after a certain period, wins the NFT
- Create an open marketplace where any user can list NFTs for sale, like OpenSea.

Resources

- [Technical Design Doc](#)
- [Full reference](#)

[Learn more about this contract on our portal](#)

Published by



thirdweb.eth



[View all contracts](#)

Details

Publish Date
Feb 13, 2023

Audit Report
[View Audit Report](#)

Licenses
Apache-2.0, MIT

Factory Enabled
[Implementations](#)
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Extensions

- PlatformFee
- Permissions
- PermissionsEnumerable



Marketplace

audited

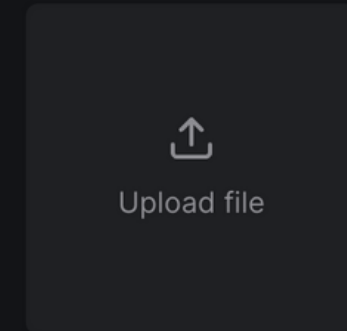
Marketplace for ERC721/ERC1155 NFTs

Learn more

Contract Metadata

Settings to organize and distinguish between your different contracts.

Image



Name *

test

Description

test

Payout Settings

Where should any funds generated by this contract flow to.

Advanced Configuration

Network / Chain

Select a network to deploy this contract on. We recommend starting with a testnet. [Learn more about the different networks.](#)

Add to dashboard so I can find it in the list of my contracts at [/dashboard](#).

Mumbai (MATIC)



Deploy Now

Configure Networks

Deploy Status

Deploying contract



Your wallet will prompt you to sign the transaction.

Adding to dashboard



Your wallet will prompt you to sign the transaction.

This step is gasless.



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test

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test

0xbcAA...1069

Build apps

Listings

Total Listings
0

Audited · v2.0.0

Marketplace

Buy and sell ERC721/ERC1155 tokens

thirdweb.eth

Latest Events

View all →

Transaction Hash	Events
0x78f3239f5d08ec0486b7...	RoleGranted RoleGranted + 1

Permissions

View all →

Member	Roles
0x3C4b0C...	admin

Extensions

- PlatformFee
- Permissions
- PermissionsEnumerable
- ContractMetadata
- Gasless

Relevant guides

Create Your Own NFT Marketplace with TypeScript and Next.js

Build An Auction Button For Your NFT Marketplace



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Build apps

Contract Listings

Total Listings
0

All Active

LISTING ID	MEDIA	NAME	SELLER	PRICE	TYPE
------------	-------	------	--------	-------	------

Page 1 of 1 50

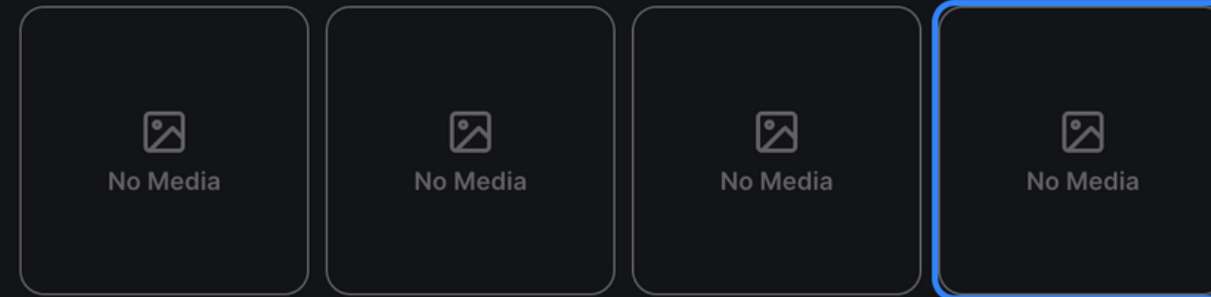
+ Create Listing

Create Listing



Select NFT

Select the NFT you want to list for sale



Listing Type

Direct



The type of listing you want to create, either an auction or direct listing.

Listing Currency *

[Use Custom Currency](#)

MATIC (Polygon)



The currency you want to sell your tokens for.

Listing Price *

0.001

The price of each token you are listing for sale.

Cancel



Create Listing

test

test

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Build apps

Contract Listings

+ Create Listing

Total Listings
1

All Active

LISTING ID	MEDIA	NAME	SELLER	PRICE	TYPE
0	 No Media	Failed to load NFT metadata	0x3C4b...f272	0.001 MATIC	Direct Listing →

Address 0x3C4b0C4996968f8ab35D4E6790CC3B0DAb59f272   

Overview

Balance: 1.040013742290300324 MATIC

























Token: \$0.00 8

More Info

My Name Tag: Not Available

Transactions Internal Txns ERC-20 Token Txns ERC-721 Token Txns

Latest 25 from a total of 27 transactions

Txn Hash	Method ⁱ	Block	Age	From	To	Value	[Txn Fee]
 0x3ffe9e7edc7f2938bb5...	Create Listing	33312163	12 mins ago	0x3c4b0c4996968f8ab3...	 0xbcaae02a9f064cd90c0...	0 MATIC	0.000514129721 
 0x5ba92cba4a1956fcde...	Set Approval For...	33312102	15 mins ago	0x3c4b0c4996968f8ab3...	 0xa373777c97b996a00e...	0 MATIC	0.000069954 
 0x78f3239f5d08ec0486b...	Deploy Proxy By ...	33311946	20 mins ago	0x3c4b0c4996968f8ab3...	 0x5dbc7b840baa9dabcb...	0 MATIC	0.000894966009 
 0xbacc5c309aa6edd0c4...	Create Listing	33309435	1 hr 49 mins ago	0x3c4b0c4996968f8ab3...	 0x8e85a96211f9c6a16f1...	0 MATIC	0.000624295214 
 0x7fafe6dede64de7530f...	Set Approval For...	33309425	1 hr 49 mins ago	0x3c4b0c4996968f8ab3...	 0x900e666246289af5bc...	0 MATIC	0.000106588798 
 0x3b634c2b8f7d65f5291...	Connect To Other...	33308023	2 hrs 39 mins ago	0x3c4b0c4996968f8ab3...	 0x5720122da370d4dff64...	0 MATIC	0.000085945478 
 0x068aa51caab61f34d6...	0x60806040	33308010	2 hrs 40 mins ago	0x3c4b0c4996968f8ab3...	 Contract Creation	0 MATIC	0.001682000988 
 0x4e92db440b0a7370a4...	0x60806040	33307974	2 hrs 41 mins ago	0x3c4b0c4996968f8ab3...	 Contract Creation	0 MATIC	0.003814426367 



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Build apps

Configuration

Listing ID

0

The listing ID the embed should display

RPC Url

https://mumbai.rpc.thirdweb.com/5a9bc94b87f7cbbbfbbc234

RPC the embed should use to connect to the blockchain.

Customization

Theme

Light

Selecting system will make it so the embed would change depending on the user system's preferences.

Primary Color

Purple

Used for the main actions button backgrounds.

Secondary Color

Embed Code

```
<iframe
  src="https://ipfs.thirdwebcdn.com/ipfs/QmbAgC8YwY36n8H2kuv
  width="600px"
  height="600px"
  style="max-width:100%;"
  frameborder="0"
></iframe>
```

Copy to clipboard

test

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Orange

Use for secondary actions (like when the user is connected to the wrong network)

Preview

The preview shows a white card with a purple header bar. The header bar contains a wallet icon, the text "0.994 MATIC", and a dropdown menu with a cat icon. Below the header is a large, empty light purple square. The main text reads "Failed to load NFT metadata". Below this, the text "Available: 1" is partially visible. At the bottom is a purple button with the text "Buy (0.001 MATIC)". A red circle highlights the header bar, and another red circle highlights the buy button. A yellow arrow points from the header bar to the buy button.

test

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Embed

Orange

Use for secondary actions (like when the user is connected to the wrong network)

Preview

1.039 MATIC
0x3C4b...f272



Failed to load NFT metadata

Sold Out

Address 0x3C4b0C4996968f8ab35D4E6790CC3B0DAb59f272

Overview

Balance: 1.039875772288828644 MATIC

Token: \$0.00 8

More Info

My Name Tag: Not Available

Transactions Internal Txns ERC-20 Token Txns ERC-721 Token Txns

Latest 25 from a total of 28 transactions

Txn Hash	Method	Block	Age	From	To	Value	[Txn Fee]
0xaa370480d84a4feb34f...	Buy	33312040	13 mins ago	0x3c4b0c4996968f8ab3...	0xbcaae02a9f064cd90c...	0.001 MATIC	0.000137970001
0x3ffe9e7edc7f2938bb5...	Create Listing	33312063	29 mins ago	0x3c4b0c4996968f8ab3...	0xbcaae02a9f064cd90c...	0 MATIC	0.000514129721
0x5ba92cba4a1956fcde...	Set Approval For...	33312102	32 mins ago	0x3c4b0c4996968f8ab3...	0xa373777c97b996a00e...	0 MATIC	0.000069954
0x78f3239f5d08ec0486b...	Deploy Proxy By ...	33311946	37 mins ago	0x3c4b0c4996968f8ab3...	0x5dbc7b840baa9dabcb...	0 MATIC	0.000894966009
0xbacc5c309aa6edd0c4...	Create Listing	33309435	2 hrs 6 mins ago	0x3c4b0c4996968f8ab3...	0x8e85a96211f9c6a16f1...	0 MATIC	0.000624295214
0x7fafa6dede64de7530f...	Set Approval For...	33309425	2 hrs 6 mins ago	0x3c4b0c4996968f8ab3...	0x900e666246289af5bc...	0 MATIC	0.000106588798
0x3b634c2b8f7d65f5291...	Connect To Other...	33308023	2 hrs 56 mins ago	0x3c4b0c4996968f8ab3...	0x5720122da370d4dff64...	0 MATIC	0.000085945478
0x068aa51caab61f34d6...	0x60806040	33308010	2 hrs 57 mins ago	0x3c4b0c4996968f8ab3...	Contract Creation	0 MATIC	0.001682000988



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Build apps

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Latest Transactions

All

Auto-Update

Transaction Hash	Events	Block Number
0xaa370480d84a4feb54fd992...	NewSale	33312640
0x3fffe9e7edc7f2938bb5e7a...	ListingAdded	33312163
0x78f3239f5d08ec0486b71d3...	RoleGranted RoleGranted + 1	33311946

実装したこと

- *NFT*マーケットプレイスのコントラクト作成
- *NFT*のマーケットプレイスへのリスティング
- *Mumbai MATIC*による*NFT*の購入