

Blockchain

IPFS & Pinata

2024

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IPFS

IPFS

- Unlike HTTP which loads files from one server at a time, content addressing decouples data from its location.
- IPFS retrieves files from multiple sources at once in a peer-to-peer fashion.
- **Fingerprint your data**
 - ❑ Content identifiers (CIDs) give every piece of content, data, or file a permanent hash address that you can [“pin”](#) to keep.
- **Store & distribute content freely**
 - ❑ Our peer-to-peer network joins thousands of nodes so you can find all nodes with the content you want and help others discover the content you have.
- **Optimize content delivery**
 - ❑ IPFS caches and stores data on local servers, saving bandwidth via more efficient distribution and delivery.

Install IPFS



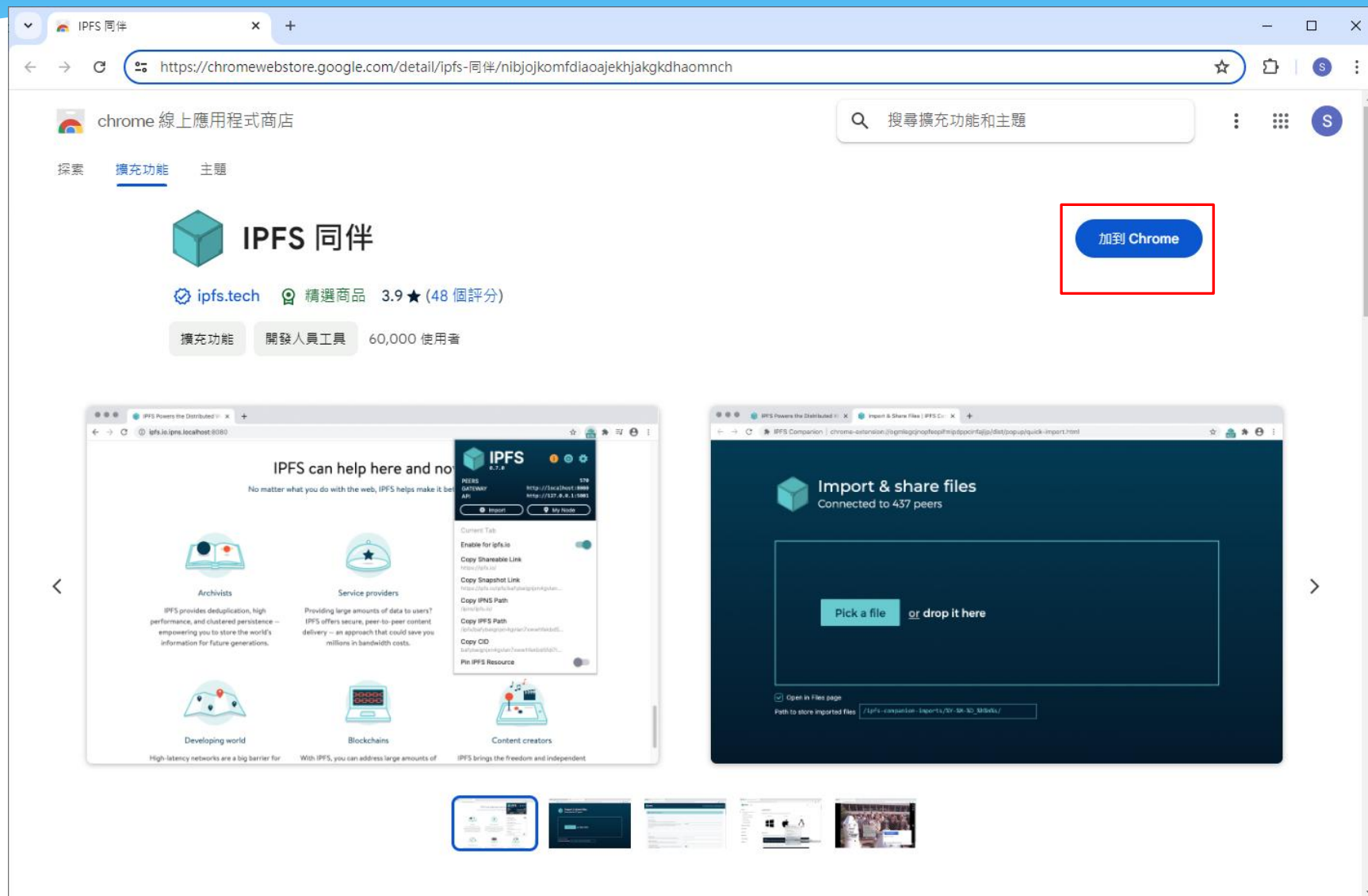
Available in the
Chrome Web Store

- <https://chrome.google.com/webstore/detail/ipfs-companion/nibjojkomfdiaoajekhhjakgkdhaomnch>

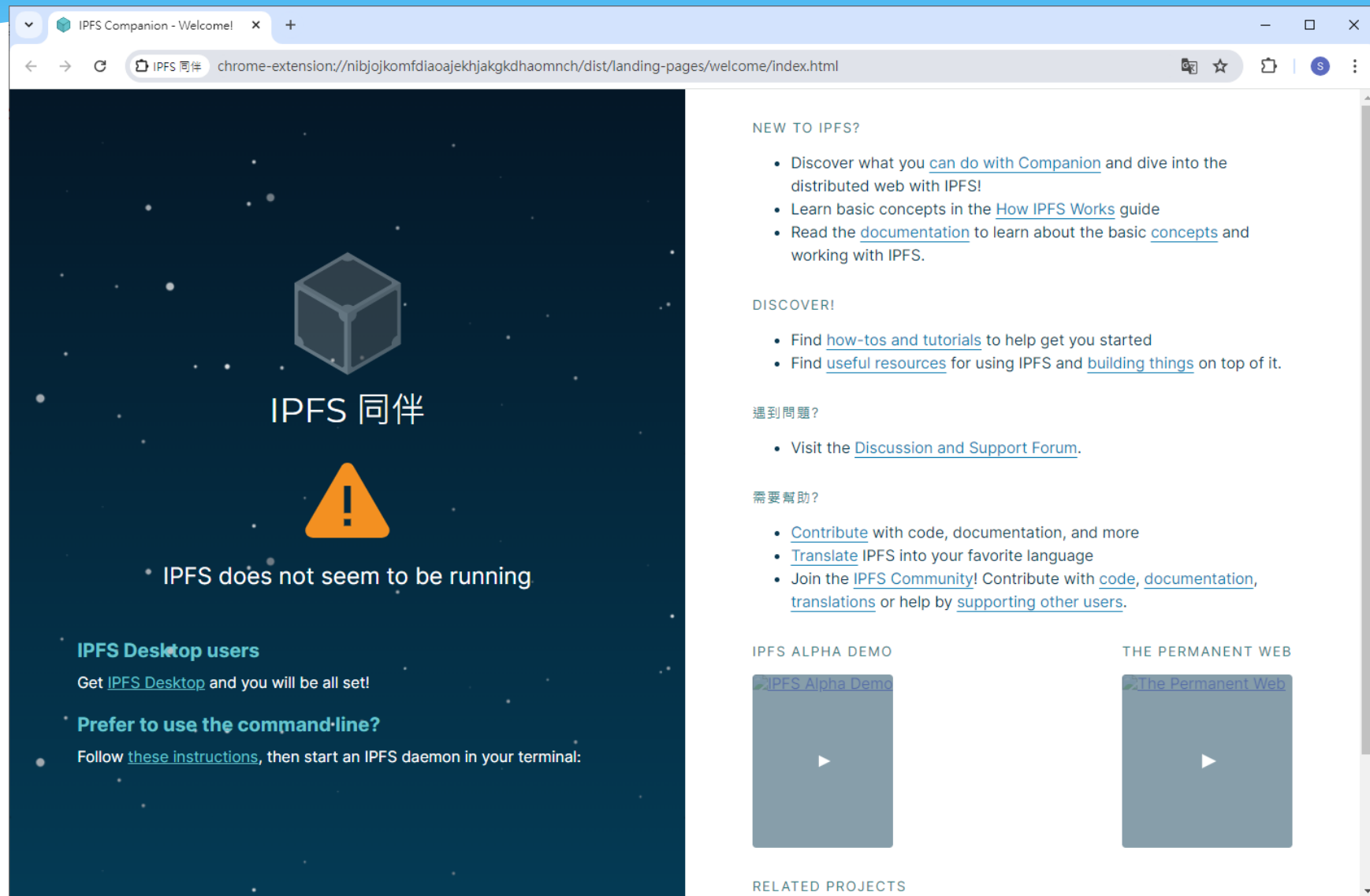


- <https://addons.mozilla.org/firefox/addon/ipfs-companion/>

IPFS-Browser Extension



IPFS-Browser Extension



IPFS-Browser

- Browser需要安裝ipfs plug-in，否則無法直接顯示。

- `ipfs://QmSAmYXcYiAMJn6XmoAbDSYx5EHLXRJPhzivnMFBaVBkMA`

等同於`https://ipfs.io/ipfs/...`表示

`https://ipfs.io/ipfs/QmSAmYXcYiAMJn6XmoAbDSYx5EHLXRJPhzivnMFBaVBkMA`

無聊猿NFT-ERC721

■ <https://opensea.io/collection/boredapeyachtclub>

The screenshot shows the OpenSea interface for the Bored Ape Yacht Club (BAYC) collection. The header includes the OpenSea logo, navigation links (Drops, Stats, Create), a search bar, and user options (Login, profile, cart). The collection banner features the Bored Ape Yacht Club logo and a background image of a yacht club building. Key statistics are displayed: 1,553,894 ETH Total volume, 10.149 ETH Floor price, 9.4387 WETH Best offer, 1% Listed, and 5,391 (54%) Owners (Unique). Below the banner, a description states: "The Bored Ape Yacht Club is a collection of 10,000 unique Bored Ape ... See more". It also mentions "Items 9,998 · Created Apr 2021 · Creator earnings 1% · Chain Ethereum". The main content area shows a grid of Bored Ape NFTs with their IDs and floor prices. On the left, there are filters for Status (All, Listed, On auction) and Creator earnings (Support creators, Show listings which pay the creator their requested earnings of 1%).

Bored Ape Yacht Club

1,553,894 ETH Total volume | 10.149 ETH Floor price | 9.4387 WETH Best offer | 1% Listed | 5,391 (54%) Owners (Unique)

The Bored Ape Yacht Club is a collection of 10,000 unique Bored Ape ... See more
Items 9,998 · Created Apr 2021 · Creator earnings 1% · Chain Ethereum

Items | Offers | Analytics | Activity

Live 9,998 results | Search by name or trait | Price low to high

Status: All (Selected), Listed, On auction
New, Has offers

Creator earnings: Support creators (Selected), Show listings which pay the creator their requested earnings of 1%

ID	Floor Price (ETH)
6209	10.149
465	10.169
8595	10.98
4382	10.9876
9899	10.9989

無聊猿NFT-Smart Contract

■ <https://etherscan.io/address/0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d>

The screenshot shows the Etherscan.io interface for the Bored Ape Yacht Club (BAYC) smart contract. The URL in the browser is <https://etherscan.io/address/0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d>. The page header shows the ETH price at \$3,483.07 (+3.31%) and gas at 2 Gwei. The contract is identified as "Contract 0xBC4CA0EdA7647A8aB7C2061c2E118A18a936f13D".

Overview:

- ETH BALANCE: 0.010201 ETH
- ETH VALUE: \$35.53 (@ \$3,483.07/ETH)
- TOKEN HOLDINGS: \$417.86 (44 Tokens)

More Info:

- PRIVATE NAME TAGS: + Add
- CONTRACT CREATOR: Bored Ape Yacht Club: ... at txn 0x22199329b0...
- TOKEN TRACKER: BoredApeYachtClub (BAYC)

Multichain Info:

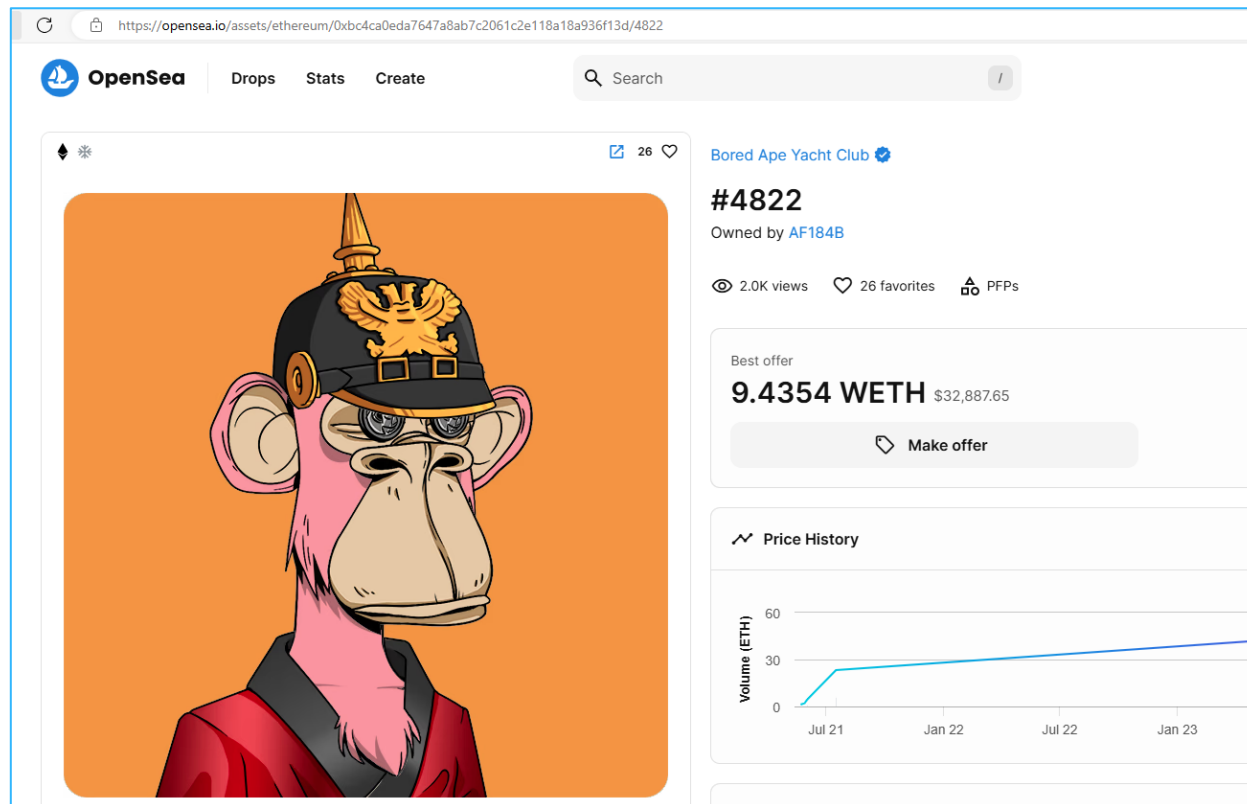
- \$528.06 (Multichain Portfolio)
- 2 addresses found via Blockscan
- Advertisement: THE BEST OPERATOR 2024 BC.GAME PLAY NOW

Transactions: Latest 25 from a total of 92,142 transactions. Download Page Data.

Transaction Hash	Method	Block	Age	From	To	Value	Txn Fee
0x8bd2aa7616...	Transfer From	20209633	48 mins ago	0xEa4D3D05...9bcA62CE3	Bored Ape Yacht Club: ...	0 ETH	0.00018619
0x7317f53250a...	Transfer From	20209633	48 mins ago	0xEa4D3D05...9bcA62CE3	Bored Ape Yacht Club: ...	0 ETH	0.00021539
0x5e0ba6814e...	Transfer From	20209633	48 mins ago	0xEa4D3D05...9bcA62CE3	Bored Ape Yacht Club: ...	0 ETH	0.00021539
0xa08999e854...	Transfer From	20209633	48 mins ago	0xEa4D3D05...9bcA62CE3	Bored Ape Yacht Club: ...	0 ETH	0.00024959

IPFS-Example-無聊猿 NFT #4822

■ <https://opensea.io/assets/ethereum/0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d/4822>



無聊猿 NFT #4822-metadata

■ <https://ipfs.io/ipfs/QmeSjSinHpPnmXmspMjwiXyN6zS4E9zccariGR3jxcaWtq/4822>

```
1 {
2   "image": "ipfs://QmSAmYXcYiAMJn6XmoAbDSYx5EHLXRJPhzivnMFBaVBkMA",
3   "attributes": [
4     {
5       "trait_type": "Background",
6       "value": "Orange"
7     },
8     {
9       "trait_type": "Hat",
10      "value": "Prussian Helmet"
11     },
12     {
13       "trait_type": "Fur",
14       "value": "Pink"
15     },
16     {
17       "trait_type": "Mouth",
18       "value": "Bored"
19     },
20     {
21       "trait_type": "Eyes",
22       "value": "Coins"
23     },
24     {
25       "trait_type": "Clothes",
26       "value": "Smoking Jacket"
27     }
28   ]
29 }
```

OpenSea interface showing the metadata for the Bored Ape Yacht Club NFT #4822. The URL is <https://opensea.io/assets/ethereum/0xbc4ca0eda7647a8ab7c2061c2e118a18a936f13d/4822>.

Description

By BoredApeYachtClub

Traits

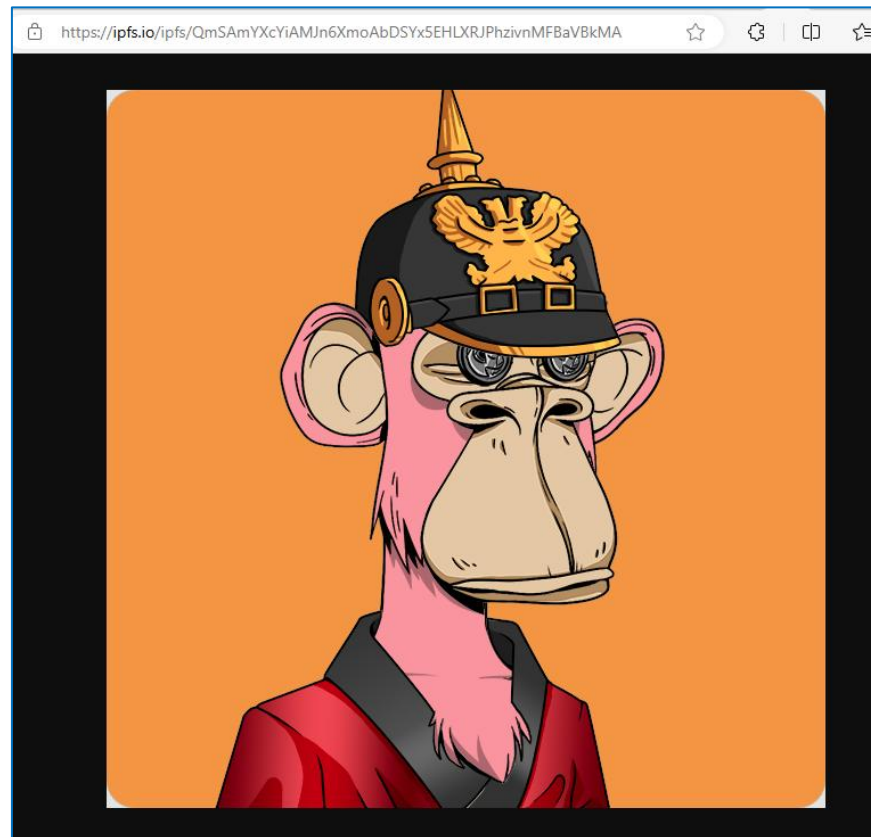
BACKGROUND	CLOTHES	EYES
Orange 13%	Smoking Jacket 2%	Coins 5%
Floor: 11.75 ETH	Floor: 16 ETH	Floor: 11.33 ETH
FUR	HAT	MOUTH
Pink 5%	Prussian Helmet 1%	Bored 23%
Floor: 9.7499 ETH	Floor: 11.98 ETH	Floor: 9.689 ETH

About Bored Ape Yacht Club

Details

無聊猿 NFT #4822-image

- <https://ipfs.io/ipfs/QmSAmYXcYiAMJn6XmoAbDSYx5EHLXRJPhzivnMFBaVBkMA>

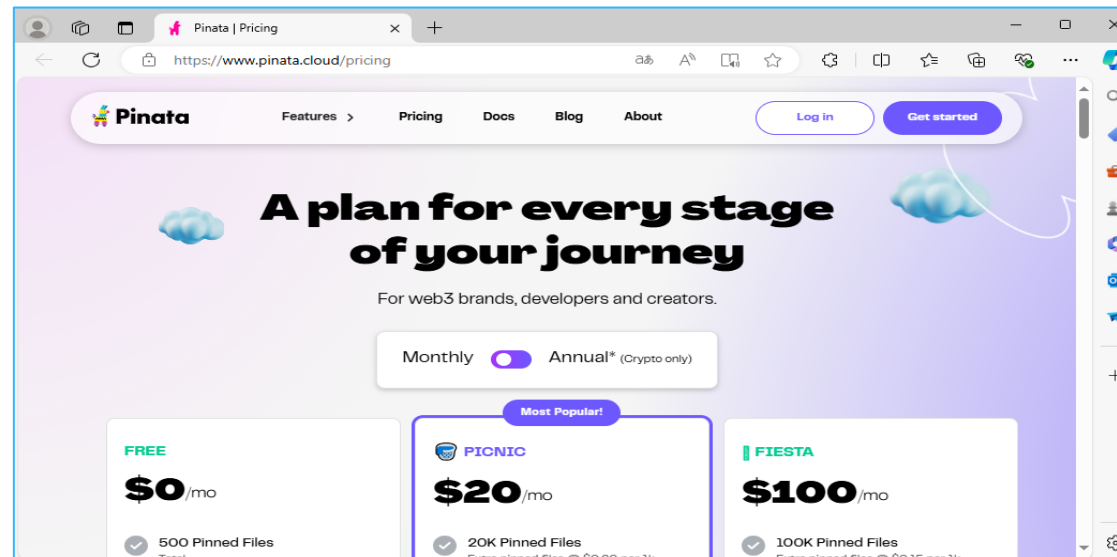




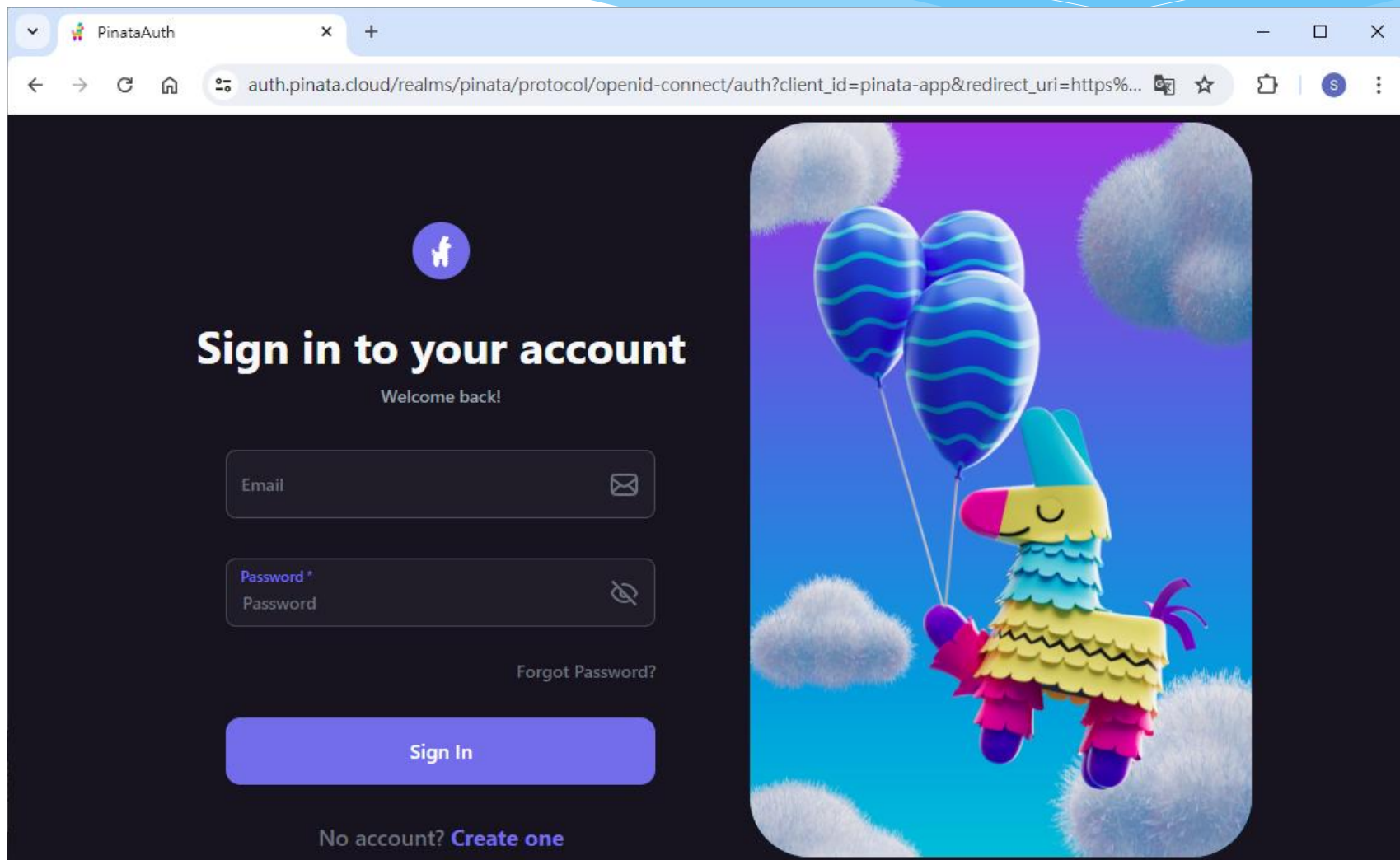
Pinata

IPFS – Pinata

- IPFS 可以自行下載節點來「Pin」檔案，或者透過第三方服務，上傳到他們的機器由他們幫你「Pin」。
- 本課程以Pinata網站為主，該站有提供免費 1GB (<https://www.pinata.cloud/pricing>) 的額度，不用綁信用卡，申請即可使用。



Pinata Sign in



The screenshot shows a web browser window with the address bar displaying the URL: `auth.pinata.cloud/realms/pinata/protocol/openid-connect/auth?client_id=pinata-app&redirect_uri=https%...`. The page has a dark theme and features a sign-in form on the left and a decorative illustration on the right.

Sign in to your account
Welcome back!

Email

Password *

[Forgot Password?](#)

Sign In

No account? [Create one](#)

The decorative illustration on the right shows a colorful pinata with a yellow body, pink and blue sections, and a blue sombrero. It is hanging from three blue balloons with white wavy patterns against a background of stylized white clouds on a blue sky.

Upload images-1

The screenshot shows the Pinata web interface. The left sidebar contains the Pinata logo, a workspace selector (Salu Chen's Workspace), and navigation links for Files, Gateways, Analytics, and Frames Analytics. The main content area is titled 'Files' and includes a search bar and filters. A table lists three files: 'cube' (280 B), 'Cube' (35.03 KB), and 'ERC1155' (1.81 MB). The 'Add' button is highlighted with a red box and labeled '1'. The 'Folder Upload' option in the dropdown menu is highlighted with a red box and labeled '2'.

Pinata

Salu Chen's Workspace

Files

Upload, pin by CID, and manage your files

Search by name or CID

From To

+ Add

- File Upload
- Folder Upload**
- From IPFS

Name	CID	Creation Date
cube 280 B	Qma1v...MiYy5	9/8/2022
Cube 35.03 KB	QmNbA...uu8yu	9/8/2022
ERC1155 1.81 MB	QmWex...1Ff7y	8/26/2022

DEVELOPERS

- API Keys
- Access Controls

Documentation

Upload images-2

The screenshot illustrates the process of uploading images to the Pinata platform. It features two main components: the Pinata web interface and a Windows file explorer window.

Pinata Web Interface:

- The browser address bar shows `app.pinata.cloud/pinmanager`.
- The left sidebar includes navigation options: Files, Gateways, Analytics, and Frames Analytics.
- The main area is titled "Files" with the subtitle "Upload, pin by CID, and manage your files".
- An "Upload Folder" modal is displayed, featuring a folder icon and the text "Click to upload a folder" and "Max file size is 25 GB". This text is highlighted with a red box and labeled with a red "1".

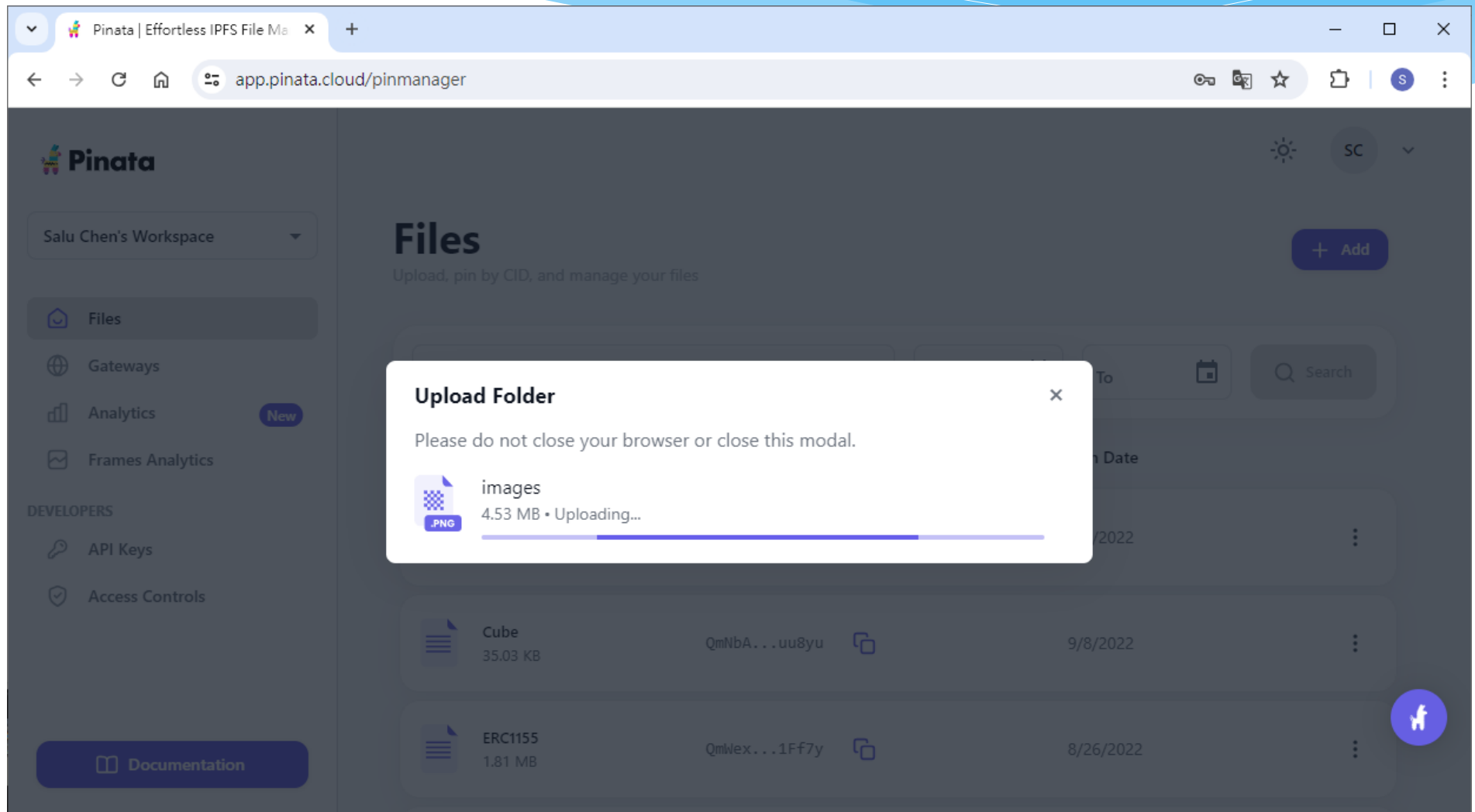
Windows File Explorer:

- The title bar reads "獲取要上傳的資料夾" (Get folder to upload).
- The address bar shows the path: `<< nutc > ERC721 > MyNFT-pinata`.
- The file list shows two folders: "images" and "metadata", both dated "2024/7/8 上午 10:50".
- The "資料夾:" (Folder:) field at the bottom is set to "images".
- The "上傳" (Upload) button is highlighted with a red box and labeled with a red "2".

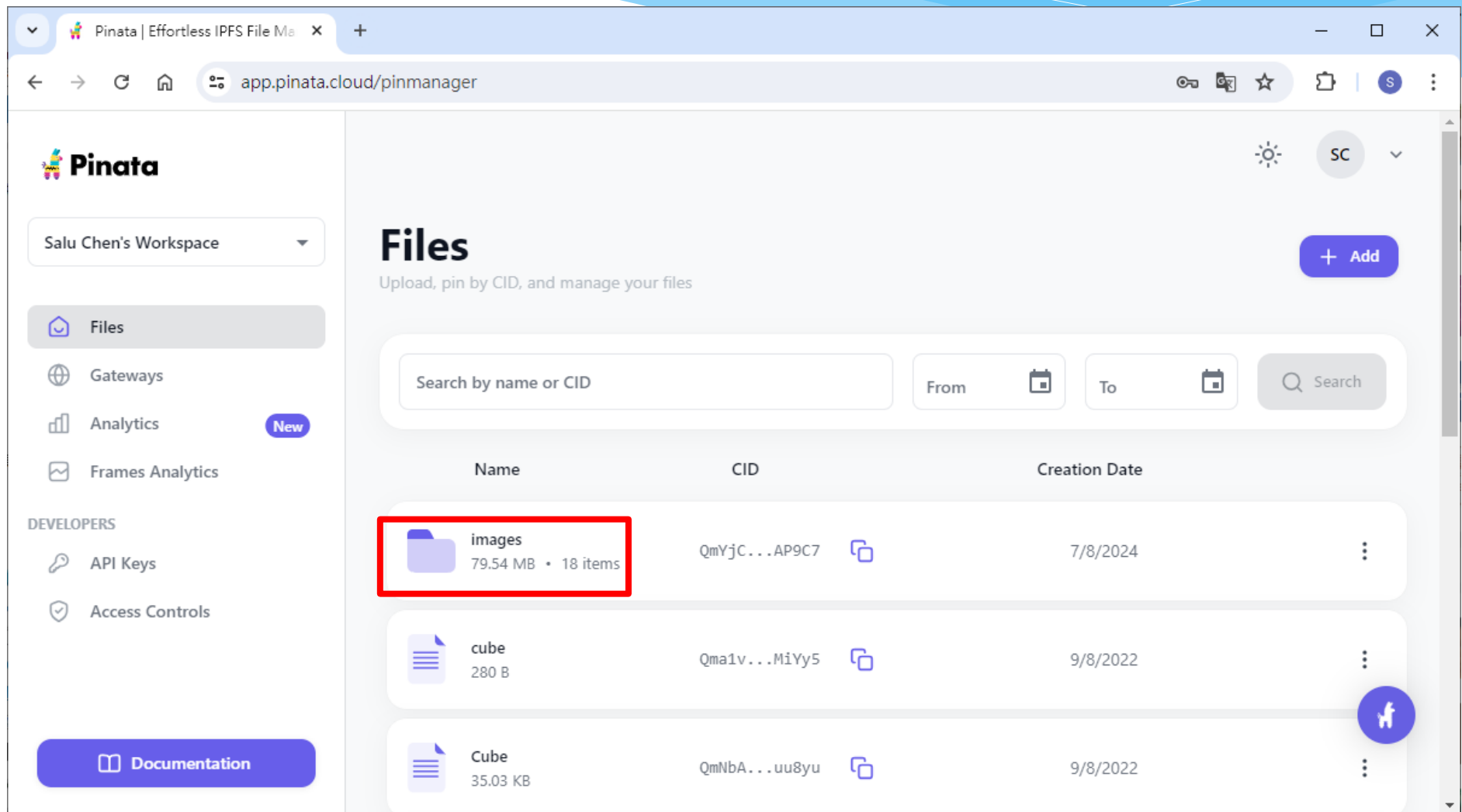
Annotations:

- A red box in the top right corner of the Pinata interface contains the following steps:
 - 1.記得先傳images (Remember to upload images first)
 - 2.再改Metadata (Then change Metadata)
 - 3.再上傳Metadata (Then upload Metadata)

Upload images-3



Upload images-4



The screenshot shows the Pinata web interface in a browser window. The address bar displays `app.pinata.cloud/pinmanager`. The left sidebar contains the Pinata logo, a workspace selector set to "Salu Chen's Workspace", and navigation links for Files, Gateways, Analytics, and Frames Analytics. Below these are developer tools like API Keys and Access Controls, and a Documentation button. The main area is titled "Files" with a subtitle "Upload, pin by CID, and manage your files" and an "Add" button. A search bar and filters for "From" and "To" dates are present. A table lists files with columns for Name, CID, and Creation Date. The first entry, a folder named "images" (79.54 MB, 18 items), is highlighted with a red box. Subsequent entries are "cube" (280 B) and "Cube" (35.03 KB).

Name	CID	Creation Date
images 79.54 MB • 18 items	QmYjC...AP9C7	7/8/2024
cube 280 B	Qma1v...MiYy5	9/8/2022
Cube 35.03 KB	QmNbA...uu8yu	9/8/2022

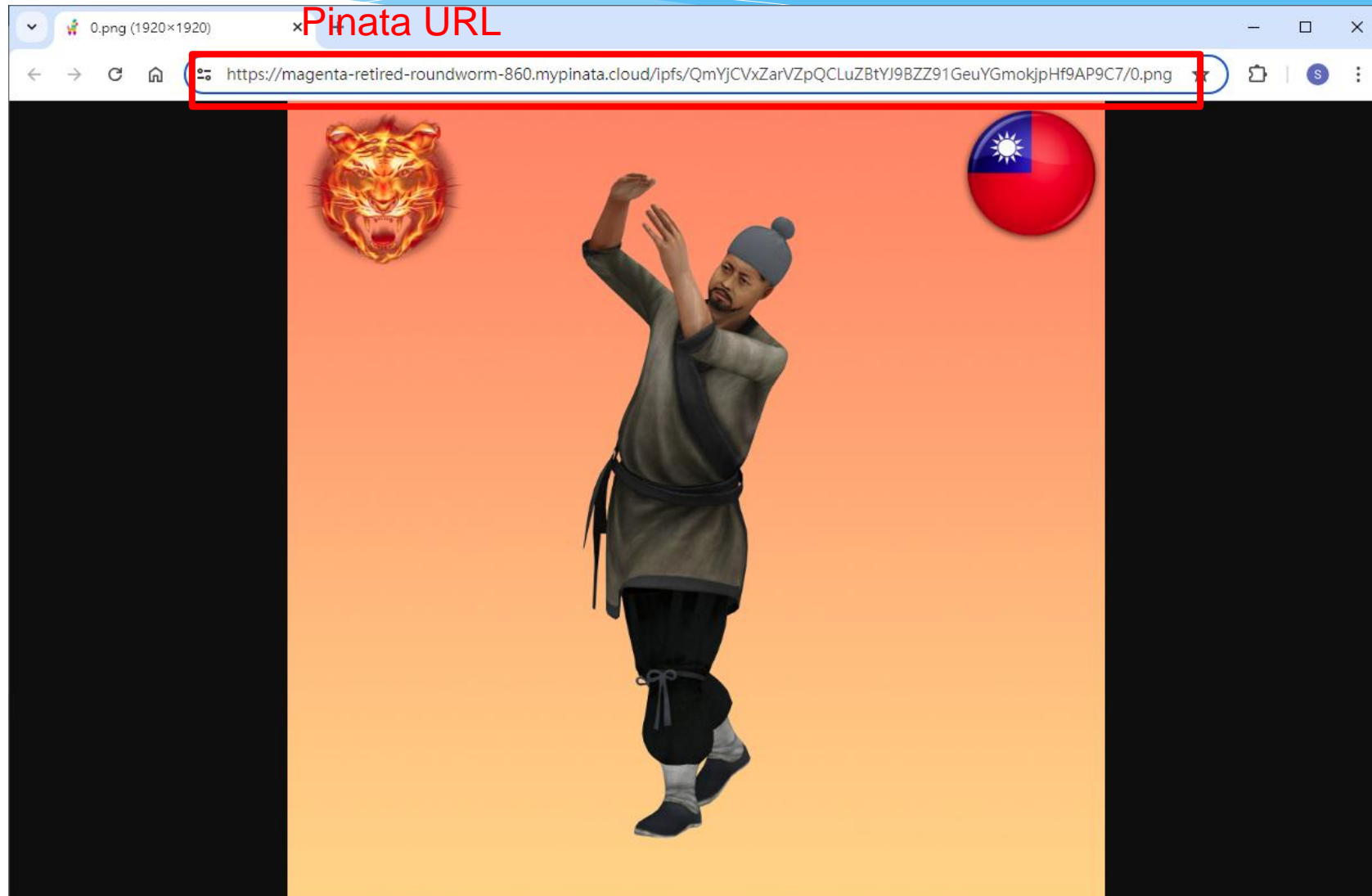
Upload images-5

Browser window showing the IPFS interface for uploading images. The address bar displays the Pinata URL: <https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGmokjpHf9AP9C7/>.

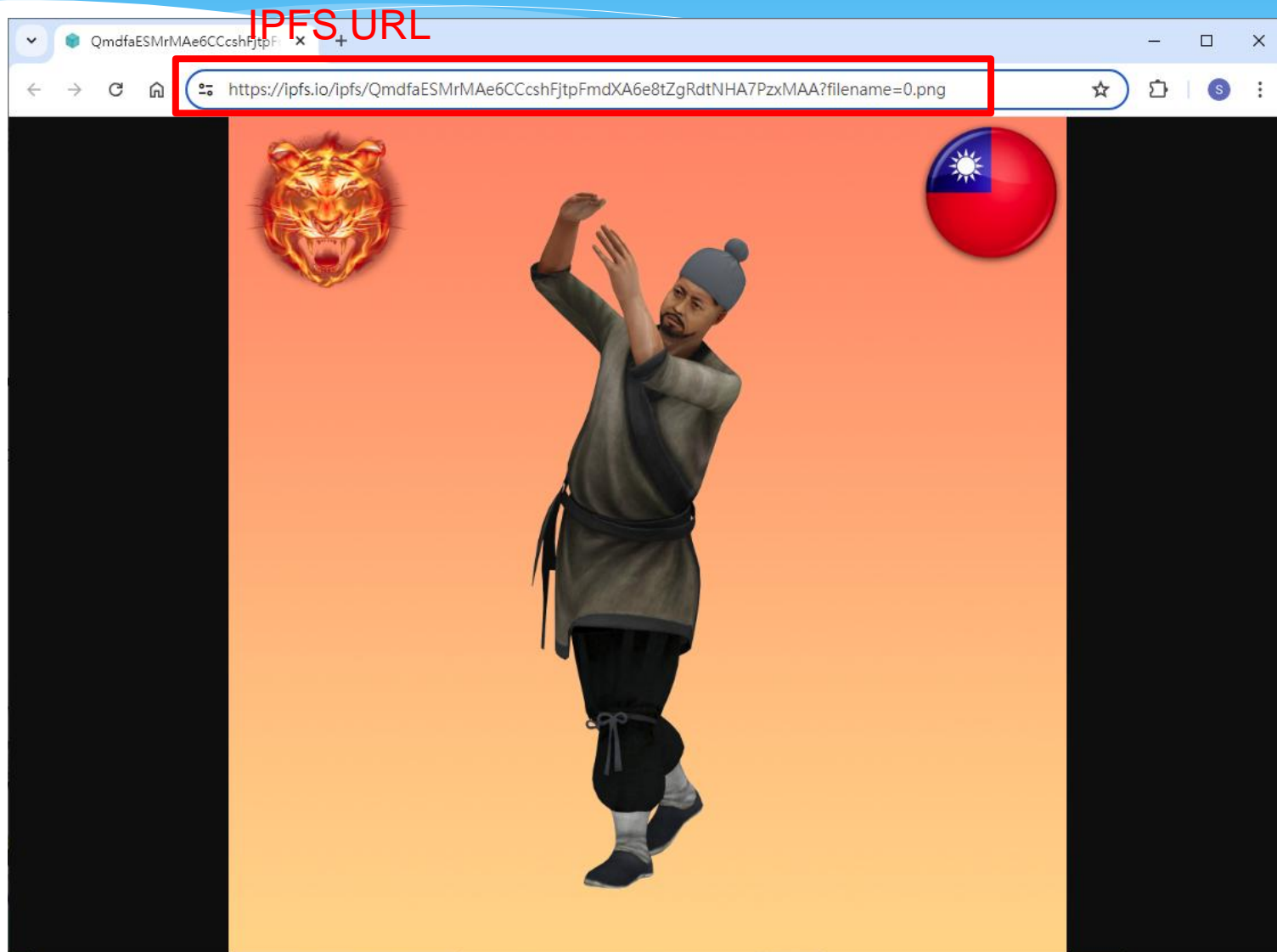
The IPFS interface shows the index of the uploaded files. The Pinata URL and the IPFS URL are highlighted in red boxes.

Pinata URL	IPFS URL	Size
0.png	Qmdf...xMAA	4.32 MB
1.png	QmR2...EEFp	4.34 MB
10.png	QmUz...UzdV	4.14 MB
11.png	Qmca...zK6K	4.13 MB
12.png	QmWG...oBkT	4.37 MB
13.png	QmYz...96iZ	4.21 MB
14.png	QmUC...4QYe	4 MB
15.png	Qmdn...4sTB	4.31 MB
16.png	QmTz...dw9c	4.12 MB
17.png	QmSc...R4WK	4.15 MB

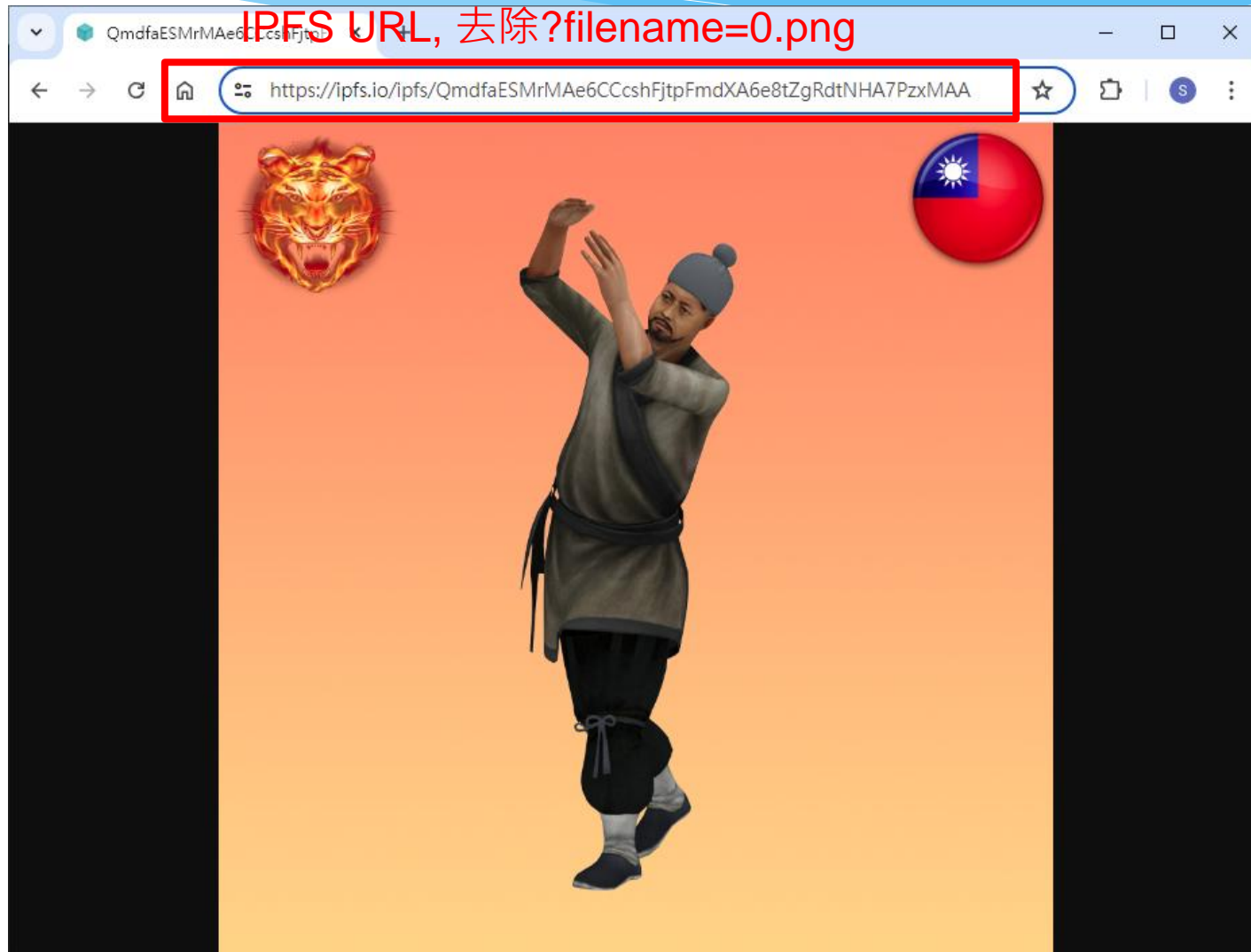
Upload images-5



Upload images-6



Upload images-7



Modify Metadata(.json)

※上傳metadata時，請先檢查延伸檔名是否需要.json

```
1 {
2   "dna": "608749df3601613dd5b10d237e64316f",
3   "name": "MyNFT #0",
4   "description": "My first NFT project.",
5   "image": "REPLACE-THIS-WITH-YOUR-URL/0.png",
6   "date": 1720148481487,
7   "attributes": [
8     {
9       "trait_type": "Background",
10      "value": "1"
11    },
12    {
13      "trait_type": "Body",
14      "value": "1"
15    },
16    {
17      "trait_type": "Flag",
18      "value": "1"
19    },
20    {
21      "trait_type": "Animal",
22      "value": "1"
23    }
24  ],
25   "compiler": "mintables.club"
26 }
```

```
1 {
2   "dna": "608749df3601613dd5b10d237e64316f",
3   "name": "MyNFT #0",
4   "description": "My first NFT project.",
5   "image": "https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGmokjpHf9AP9C7/0.png",
6   "date": 1720148481487,
7   "attributes": [
8     {
9       "trait_type": "Background",
10      "value": "1"
11    },
12    {
13      "trait_type": "Body",
14      "value": "1"
15    },
16    {
17      "trait_type": "Flag",
18      "value": "1"
19    },
20    {
21      "trait_type": "Animal",
22      "value": "1"
23    }
24  ],
25   "compiler": "mintables.club"
26 }
```

- 1.把正式的Pinata URL補上去
當然也可以用IPFS URL
- 2.記得要把每一個metadata都要改

Upload Metadata-1

The screenshot shows the Pinata web interface. The browser address bar displays 'app.pinata.cloud/pinmanager'. The left sidebar contains the Pinata logo, a workspace selector set to 'Salu Chen's Workspace', and navigation links for Files, Gateways, Analytics, and Frames Analytics. Below these are developer tools like API Keys and Access Controls, and a Documentation button. The main content area is titled 'Files' with the subtitle 'Upload, pin by CID, and manage your files'. It features a search bar and filters for 'From' and 'To' dates. A dropdown menu is open, showing options: '+ Add' (highlighted with a red box and number 1), 'File Upload', 'Folder Upload' (highlighted with a red box and number 2), and 'From IPFS'. A table of files is displayed below, with columns for Name, CID, and Creation Date.

Name	CID	Creation Date
cube 280 B	Qma1v...MiYy5	9/8/2022
Cube 35.03 KB	QmNbA...uu8yu	9/8/2022
ERC1155 1.81 MB	QmWex...1Ff7y	8/26/2022

Upload Metadata-2

The screenshot shows the Pinata web interface at `app.pinata.cloud/pinmanager`. The 'Files' section is active, displaying a list of files including 'Cube' and 'ERC1155'. An 'Upload Folder' dialog box is open, with a red box around the text 'Click to upload a folder' and a red number '1' above it. A file explorer window is also open, showing the 'metadata' folder selected, with a red box around it and a red number '2' below it. A blue box with the text '延伸檔名沒有.json' (Extension name is not .json) is next to the 'metadata' folder. The 'Upload' button in the file explorer is also highlighted with a red box.

Pinata | Effortless IPFS File Manager

app.pinata.cloud/pinmanager

Salu Chen's Workspace

Files

Upload, pin by CID, and manage your files

+ Add

Search

Upload Folder

Click to upload a folder
Max file size is 25 GB

1

2

選擇要上傳的資料夾

ERC721 > MyNFT-pinata

搜尋 MyNFT-pinata

組合管理 新增資料夾

名稱 修改日期 類型

ERC721A-SmartContract

www.mintables.club

images

metadata

2024/7/8 上午 10:50 檔案

2024/7/8 上午 10:50 檔案

桌面

OneDrive - Personal

cc

本機

資料夾: metadata

上傳 取消

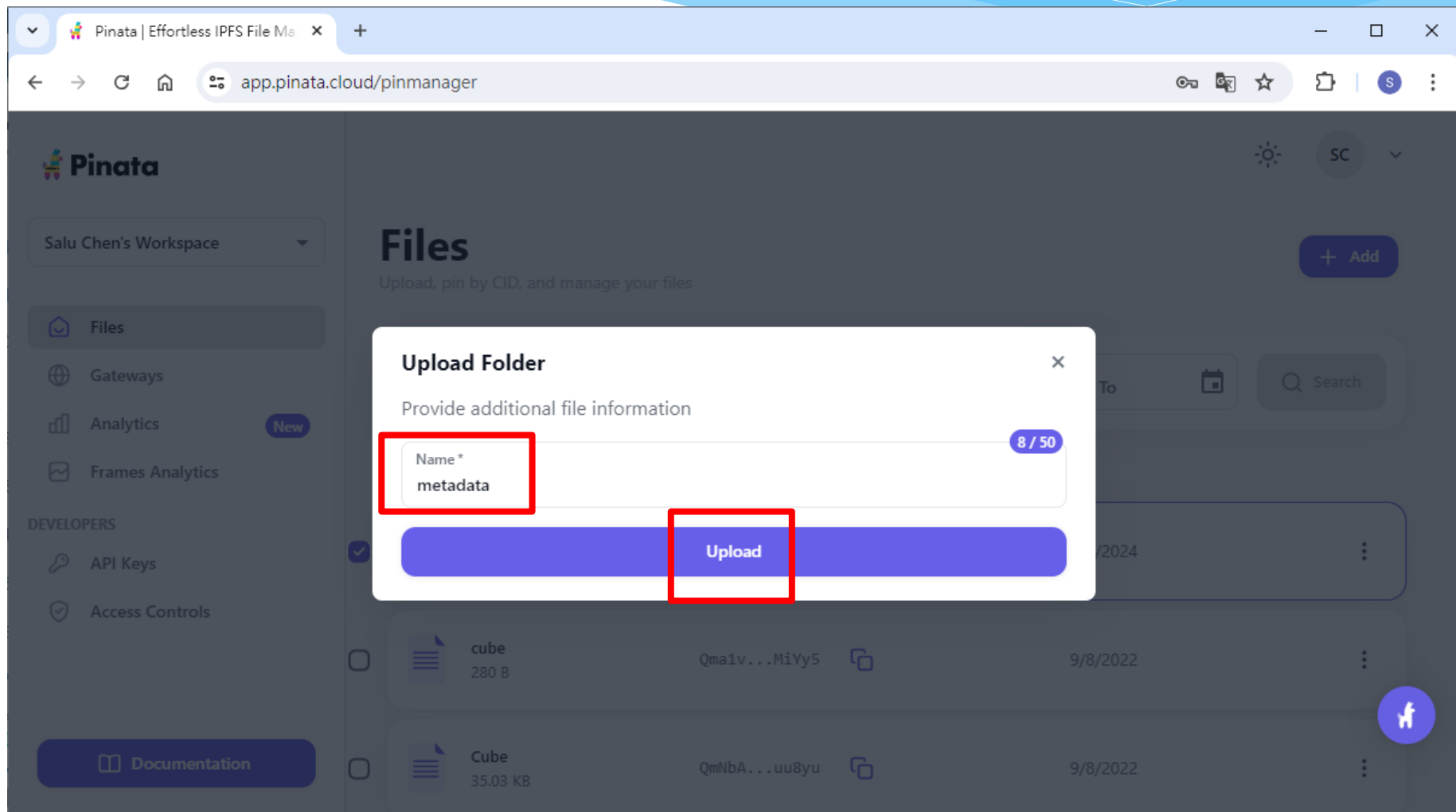
延伸檔名沒有.json

Documentation

Cube
35.03 KB
QmNbA...uu8yu

ERC1155
1.81 MB
QmWlex...1Ff7y

Upload Metadata-3



Upload Metadata-4

The screenshot shows the Pinata web interface at `app.pinata.cloud/pinmanager`. The left sidebar contains navigation links for Files, Gateways, Analytics, and Frames Analytics. The main area displays a list of files under the heading "Files". A red box highlights the "metadata" folder, which has a size of 11.15 KB and 18 items. A callout box points to the "metadata" folder with the text "延伸檔名沒有.json".

Name	CID	Creation Date
metadata 11.15 KB • 18 items	Qmbmr...T6X5F	7/8/2024
images 79.54 MB • 18 items	QmYjC...AP9C7	7/8/2024
cube 280 B	Qma1v...MiYy5	9/8/2022

Upload Metadata-5

Pinata URL

https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/Qmbmr2QqNnL3L5FYMccjKLS82Pj6aLaEsSpt3uphT6X5F/

IPFS

Index of /ipfs/Qmbmr2QqNnL3L5FYMccjKLS82Pj6aLaEsSpt3uphT6X5F

baseURI

Pinata URL

IPFS URL

0 B

0	QmY1...TKeC	563 B
1	QmaE...5PgC	563 B
10	QmRF...cfzg	565 B
11	QmS7...scxv	565 B
12	QmVg...9wTA	565 B
13	QmdA...am94	565 B
14	QmUE...6ryZ	565 B
	QmZc...3h4V	565 B
16	QmZR...9eha	565 B
17	QmSf...FCXb	565 B

延伸檔名沒有.json

前往Smart Contract 執行 setBaseURI

30

Upload Metadata-6

Pinata URL

<https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/Qmbmr2QqNnL3L5FYMcCjkLSD82Pj6aLaEsSpt3uphT6X5F/0>

美化排版 ☐

延伸檔名沒有.json

```
{
  "dna": "608749df3601613dd5b10d237e64316f",
  "name": "MyNFT #0",
  "description": "My first NFT project.",
  "image": "https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGMokjpHf9AP9C7/0.png",
  "date": 1720148481487,
  "attributes": [
    {
      "trait_type": "Background",
      "value": "1"
    },
    {
      "trait_type": "Body",
      "value": "1"
    },
    {
      "trait_type": "Flag",
      "value": "1"
    },
    {
      "trait_type": "Animal",
      "value": "1"
    }
  ],
  "compiler": "mintables.club"
}
```

Upload Metadata-7

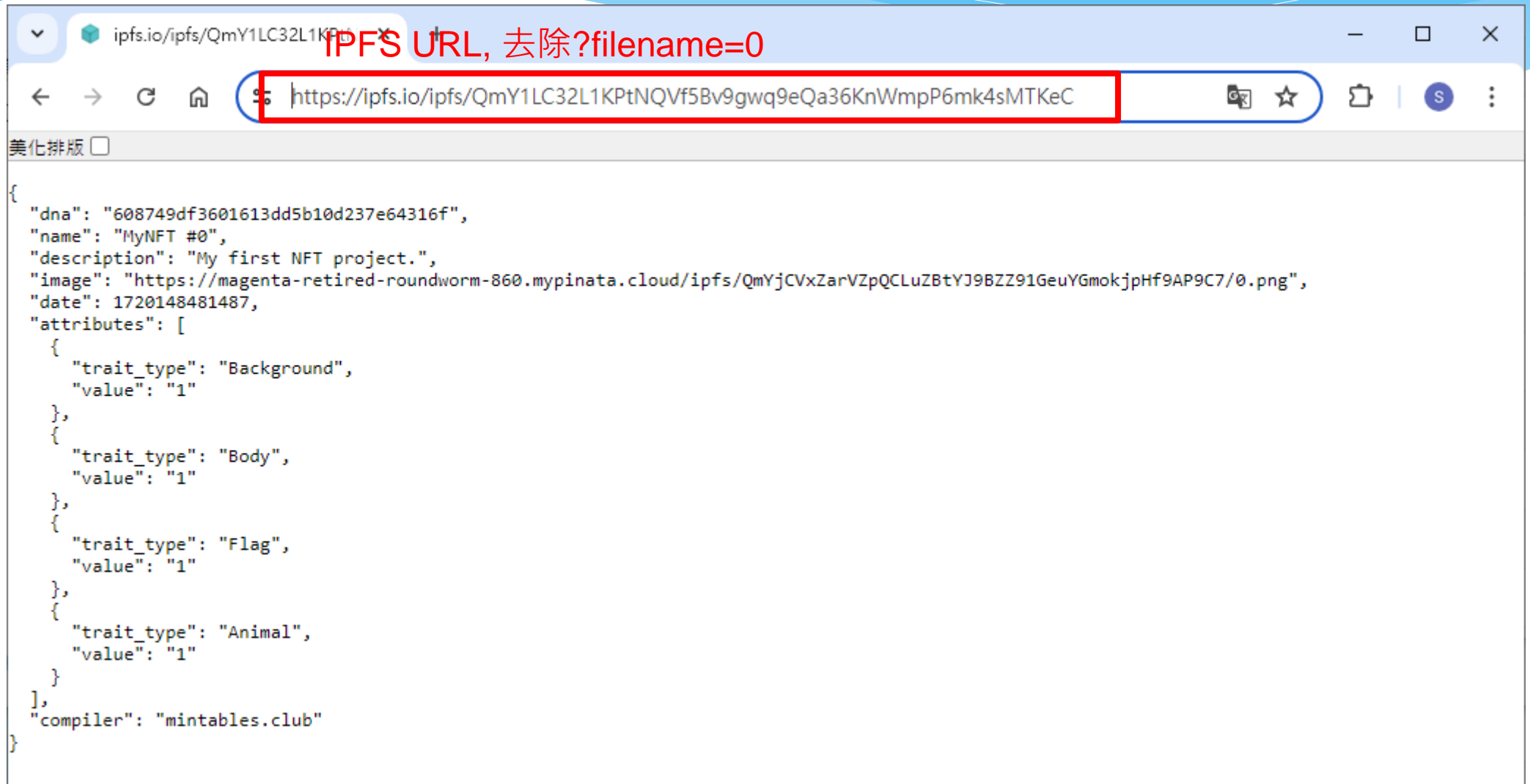
IPFS URL

美化排版 ☐ 延伸檔名沒有.json

```
{
  "dna": "608749df3601613dd5b10d237e64316f",
  "name": "MyNFT #0",
  "description": "My first NFT project.",
  "image": "https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGmokjpHf9AP9C7/0.png",
  "date": 1720148481487,
  "attributes": [
    {
      "trait_type": "Background",
      "value": "1"
    },
    {
      "trait_type": "Body",
      "value": "1"
    },
    {
      "trait_type": "Flag",
      "value": "1"
    },
    {
      "trait_type": "Animal",
      "value": "1"
    }
  ],
  "compiler": "mintables.club"
}
```


Upload Metadata-8

IPFS URL, 去除?filename=0



```
{
  "dna": "608749df3601613dd5b10d237e64316f",
  "name": "MyNFT #0",
  "description": "My first NFT project.",
  "image": "https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGmokjpHf9AP9C7/0.png",
  "date": 1720148481487,
  "attributes": [
    {
      "trait_type": "Background",
      "value": "1"
    },
    {
      "trait_type": "Body",
      "value": "1"
    },
    {
      "trait_type": "Flag",
      "value": "1"
    },
    {
      "trait_type": "Animal",
      "value": "1"
    }
  ],
  "compiler": "mintables.club"
}
```

Upload Metadata-9

Pinata | Effortless IPFS File Ma x +

app.pinata.cloud/pinmanager

Pinata

Salu Chen's Workspace

Files

Gateways

Analytics **New**

Frames Analytics

DEVELOPERS

API Keys

Access Controls

Files

Upload, pin by CID, and manage your files

Search by name or CID

From To

+ Add

File Upload

Folder Upload

From IPFS

接著上傳延伸檔名有.json

Name	CID	Creation Date
cube 280 B	Qma1v...MiYy5	9/8/2022
Cube 35.03 KB	QmNbA...uu8yu	9/8/2022
ERC1155 1.81 MB	QmWex...1Ff7y	8/26/2022

Documentation

Upload Metadata-10

The screenshot shows the Pinata web interface at `app.pinata.cloud/pinmanager`. The 'Files' section is active, displaying a list of files: 'Cube' (35.03 KB) and 'ERC1155' (1.81 MB). An 'Upload Folder' dialog box is open, with a red box around the text 'Click to upload a folder' and a red number '1' above it. A file explorer window is also open, showing the 'metadata' folder selected, with a red box around the '上傳' (Upload) button and a red number '2' next to it.

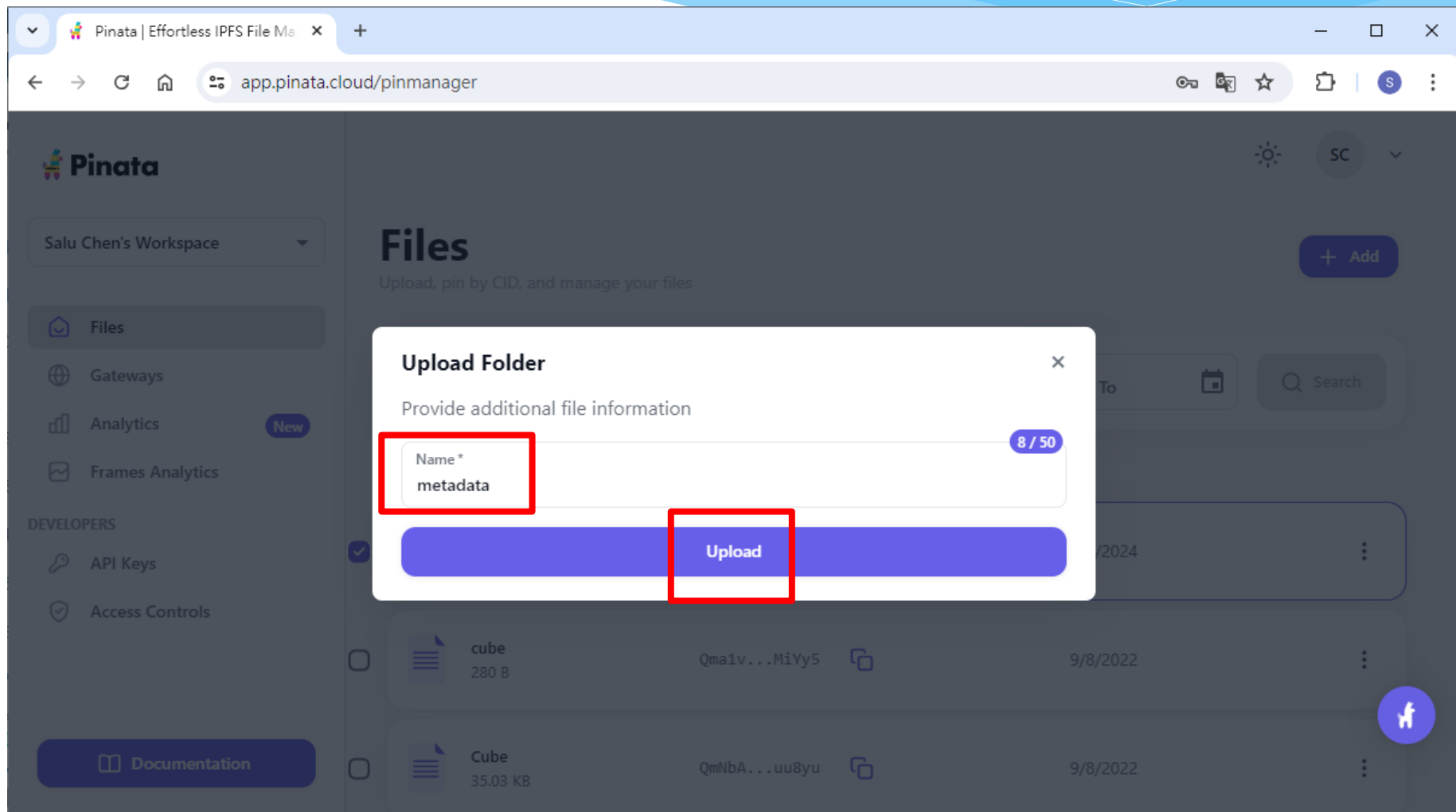
Pinata Files

File Name	Size	Hash
Cube	35.03 KB	QmNbA...uu8yu
ERC1155	1.81 MB	QmWlex...1Ff7y

File Explorer (Metadata Folder)

File Name	Modified Date	Type
images	2024/7/10 上午 11:00	檔案資料夾
metadata	2024/7/10 上午 11:01	檔案資料夾

Upload Metadata-11



Upload Metadata-12

The screenshot shows the Pinata web interface at `app.pinata.cloud/pinmanager`. The left sidebar contains navigation links for Files, Groups, Gateways, Analytics, and Frames Analytics. The main area displays a list of files under the heading "Files". A red box highlights the first "metadata" folder, and a blue box highlights its name with a red text annotation: "目錄內延伸檔名有.json".

Name	CID	Creation Date
metadata 11.24 KB • 18 items	QmXhN...eUJGh	7/10/2024
metadata 11.15 KB • 18 items	Qmbmr...T6X5F	7/8/2024
images 79.54 MB • 18 items	QmYjC...AP9C7	7/8/2024

Upload Metadata-13

Pinata URL

baseURI

Index of /ipfs/QmXhNA3b5wqti5nycRRno4uTBFDfxi8CpkmSFk2fFeUJGh/

Pinata URL

11 kB

0.json

1.json

10.json

11.json

12.json

13.json

14.json

15.json

16.json

17.json

2.json

QmY1...TKeC 574 B

QmaE...5PgC 574 B

QmRF...cfzg 576 B

QmS7...scxv 576 B

QmVg...9wTA 576 B

QmdA...am94 576 B

QmUE...6ryZ 576 B

QmZc...3h4V 576 B

QmZR...9eha 576 B

QmSf...FCXb 576 B

QmXg...xptZ 574 B

2

3

前往Smart Contract 執行 setBaseURI

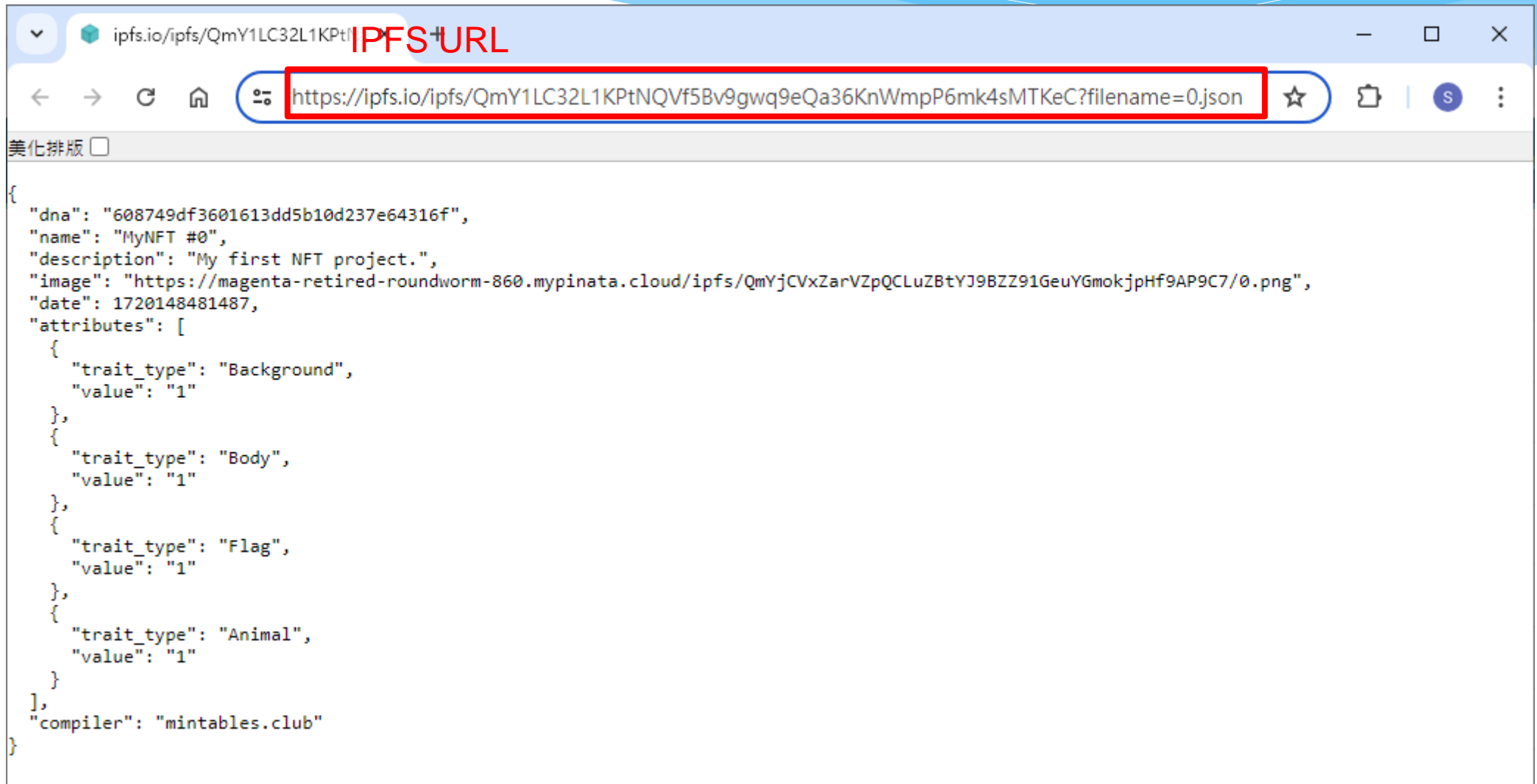
IPFS URL

延伸檔名有.json

Upload Metadata-14

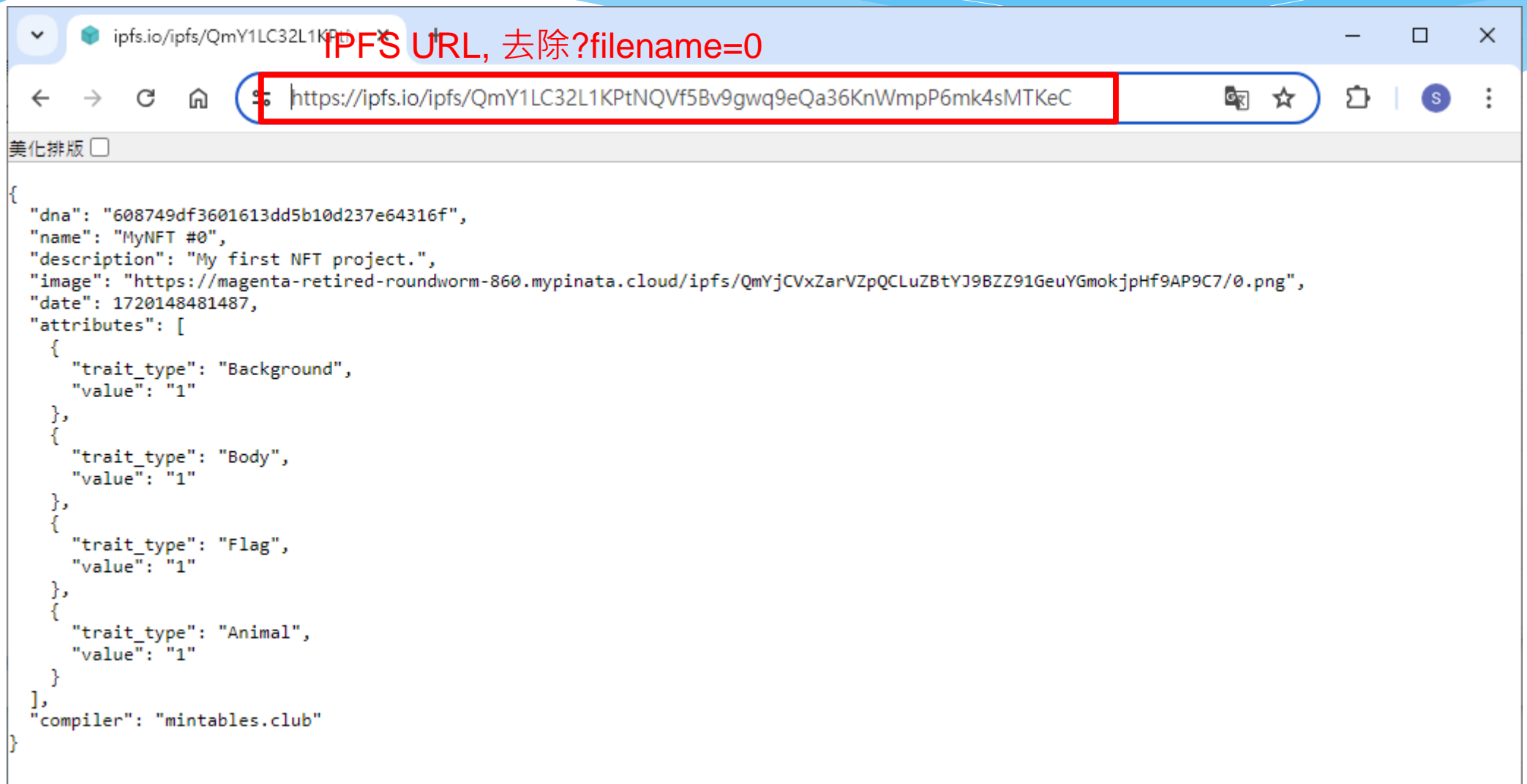
```
{
  "dna": "608749df3601613dd5b10d237e64316f",
  "name": "MyNFT #0",
  "description": "My first NFT project ",
  "image": "https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGmokjpHf9AP9C7/0.png",
  "date": "1720140401407",
  "attributes": [
    {
      "trait_type": "Background",
      "value": "1"
    },
    {
      "trait_type": "Body",
      "value": "1"
    },
    {
      "trait_type": "Flag",
      "value": "1"
    },
    {
      "trait_type": "Animal",
      "value": "1"
    }
  ],
  "compiler": "mintables.club"
}
```

Upload Metadata-15



Upload Metadata-16

IPFS URL, 去除?filename=0



The screenshot shows a web browser window. The address bar contains the URL `https://ipfs.io/ipfs/QmY1LC32L1KPtNQVf5Bv9gwq9eQa36KnWmpP6mk4sMTKeC`, which is highlighted with a red rectangle. The page content displays a JSON object representing NFT metadata.

```
{
  "dna": "608749df3601613dd5b10d237e64316f",
  "name": "MyNFT #0",
  "description": "My first NFT project.",
  "image": "https://magenta-retired-roundworm-860.mypinata.cloud/ipfs/QmYjCVxZarVZpQCLuZBtYJ9BZZ91GeuYGmokjpHf9AP9C7/0.png",
  "date": 1720148481487,
  "attributes": [
    {
      "trait_type": "Background",
      "value": "1"
    },
    {
      "trait_type": "Body",
      "value": "1"
    },
    {
      "trait_type": "Flag",
      "value": "1"
    },
    {
      "trait_type": "Animal",
      "value": "1"
    }
  ],
  "compiler": "mintables.club"
}
```

Thank you !

