#### Blockchain

#### **IPFS & Filebase**

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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

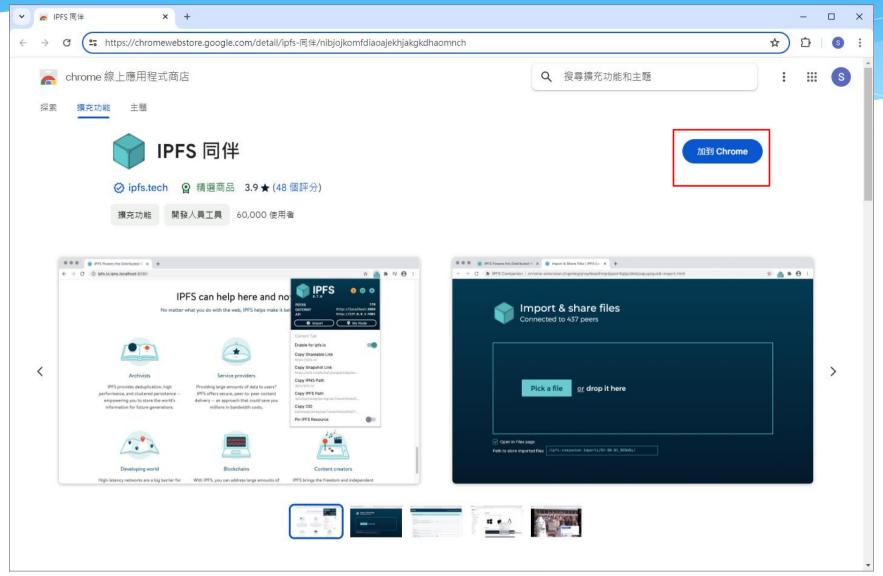


https://chrome.google.com/webstore/detail/ipfscompanion/nibjojkomfdiaoajekhjakgkdhaomnch

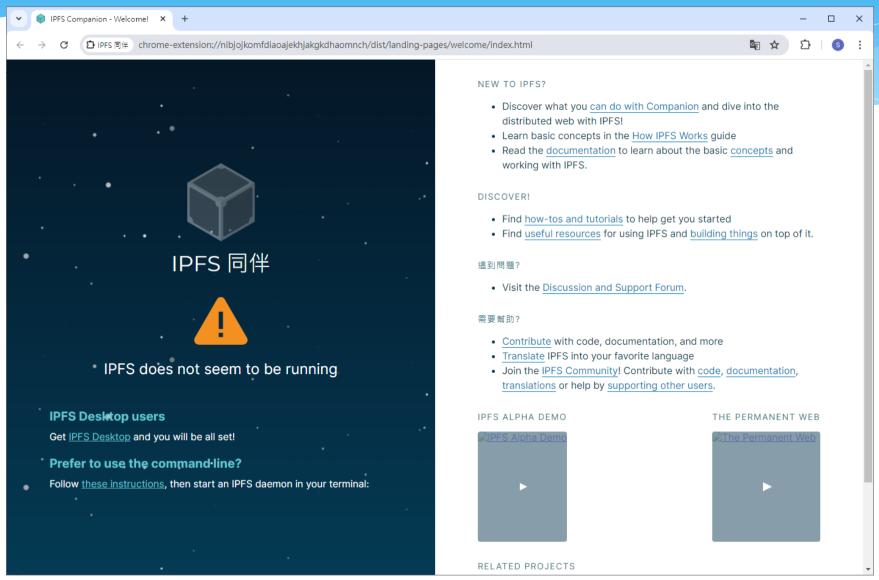


https://addons.mozilla.org/firefox/addon/ipfscompanion/

#### **IPFS-Browser Extension**



#### **IPFS-Browser Extension**



#### IPFS-Browser

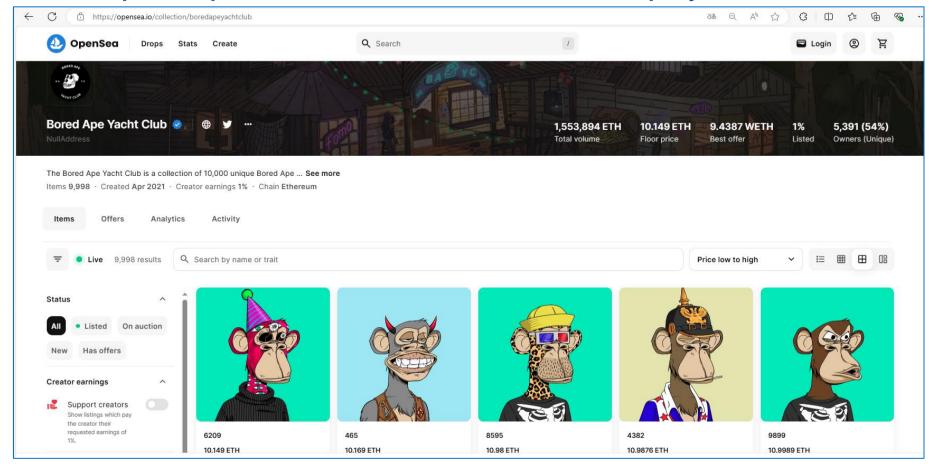
- Browser需要安裝ipfs plug-in, 否則無法直接顯示。
- ipfs://QmSAmYXcYiAMJn6XmoAbDSYx5EHLXRJPh zivnMFBaVBkMA

等同於https://ipfs.io/ipfs/...表示

https://ipfs.io/ipfs/QmSAmYXcYiAMJn6XmoAbDSYx5 EHLXRJPhzivnMFBaVBkMA

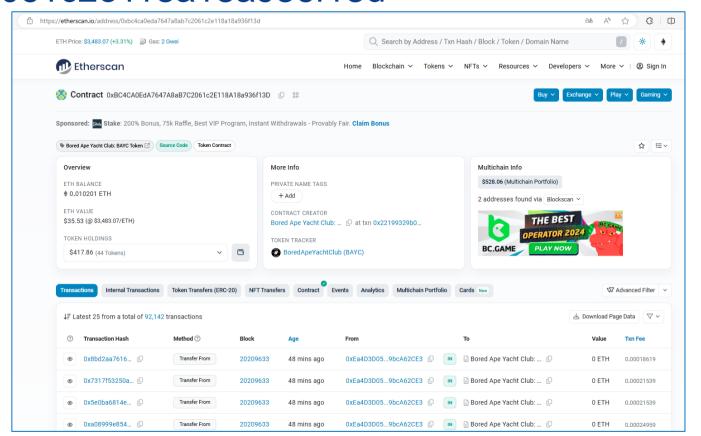
### 無聊猿NFT-ERC721

https://opensea.io/collection/boredapeyachtclub



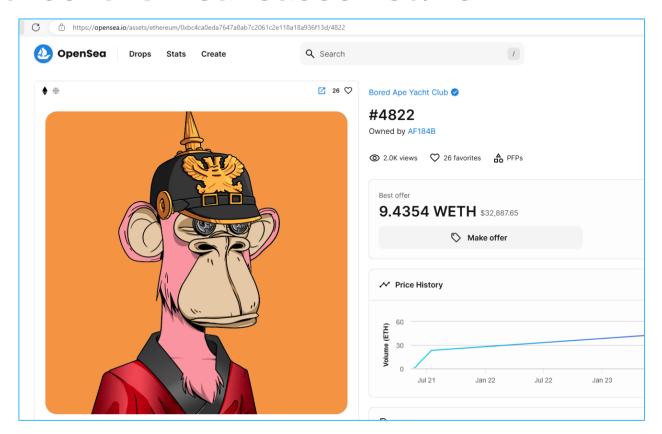
### 無聊猿NFT-Smart Contract

https://etherscan.io/address/0xbc4ca0eda7647a8ab7 c2061c2e118a18a936f13d



### IPFS-Example-無聊猿 NFT #4822

https://opensea.io/assets/ethereum/0xbc4ca0eda764 7a8ab7c2061c2e118a18a936f13d/4822

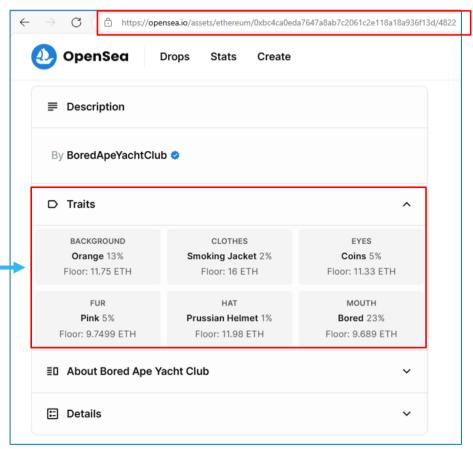


### 無聊猿 NFT #4822-metadata

https://ipfs.io/ipfs/QmeSjSinHpPnmXmspMjwiXyN6zS

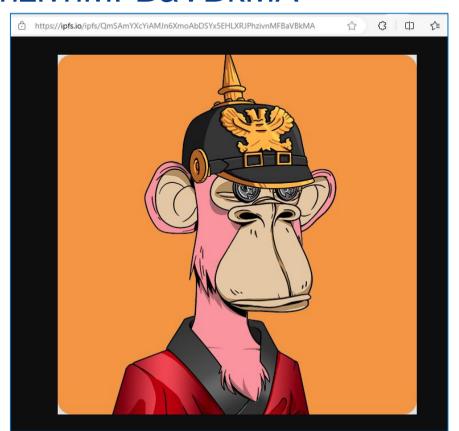
4E9zccariGR3jxcaWtq/4822





### 無聊猿 NFT #4822-image

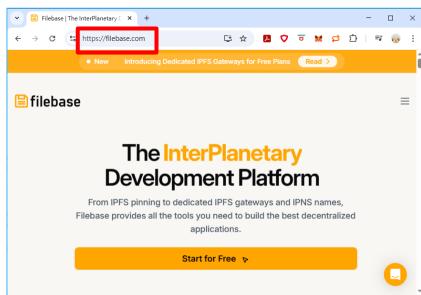
https://ipfs.io/ipfs/QmSAmYXcYiAMJn6XmoAbDSYx5 EHLXRJPhzivnMFBaVBkMA



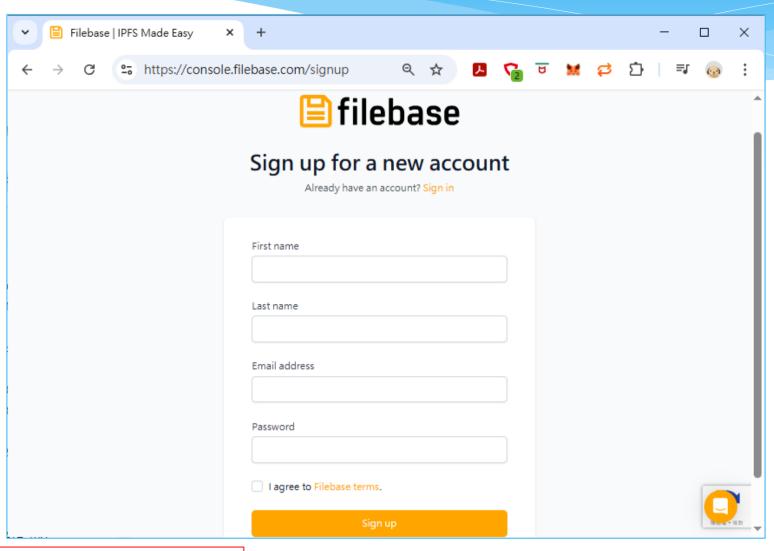
# Filebase

#### IPFS - Filebase

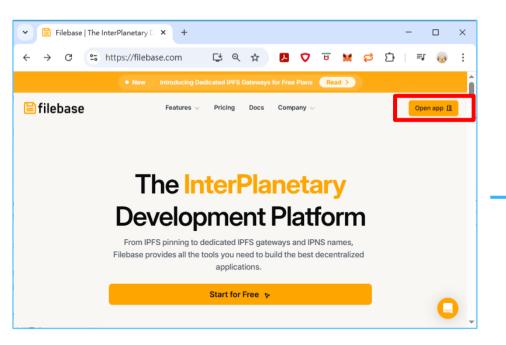
- ■IPFS 可以自行下載節點來「Pin」檔案,或者透過第三方服務, 上傳到他們的機器由他們幫你「Pin」。
- ■本課程以Filebase網站為主,該站有提供免費 5GB、1000 Files (https://filebase.com)的額度,不用綁信用卡,申請即可使用。

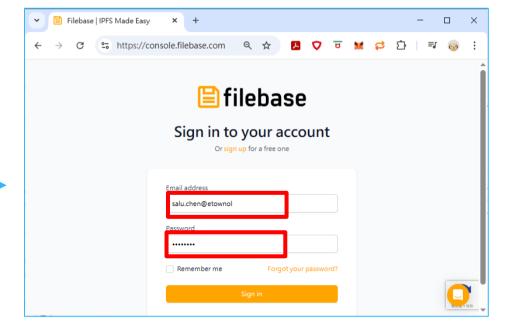


## Filebase Sign up

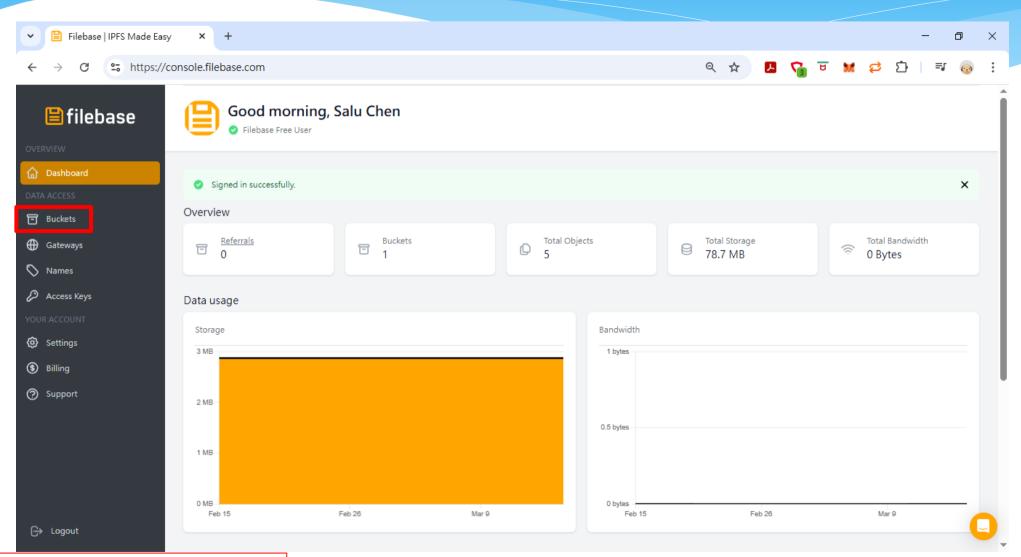


### Filebase Sign in

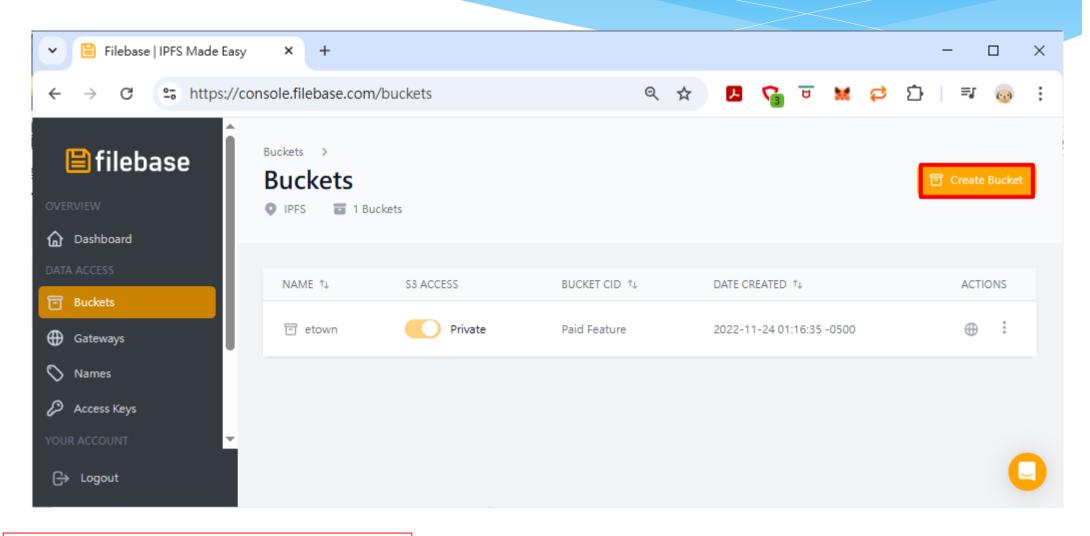




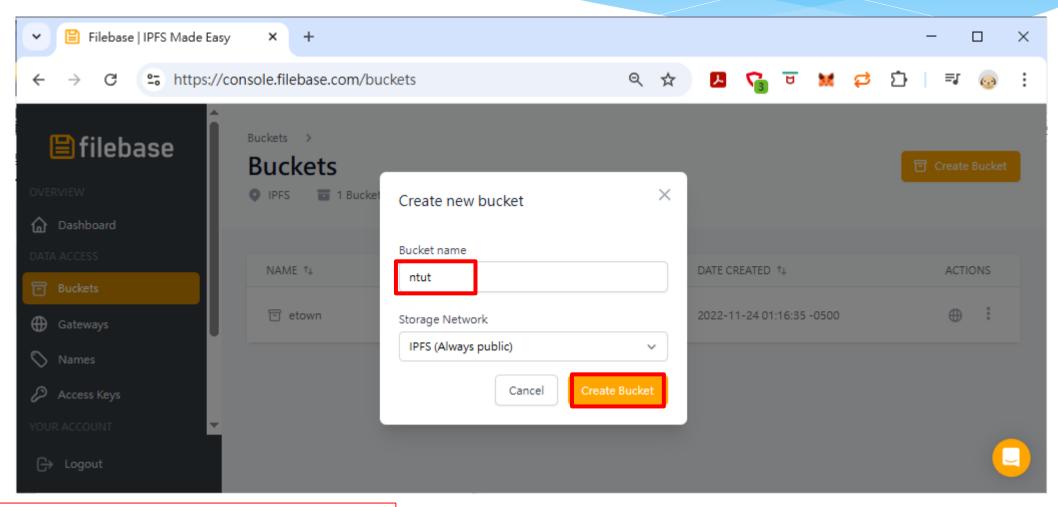
#### Welcome



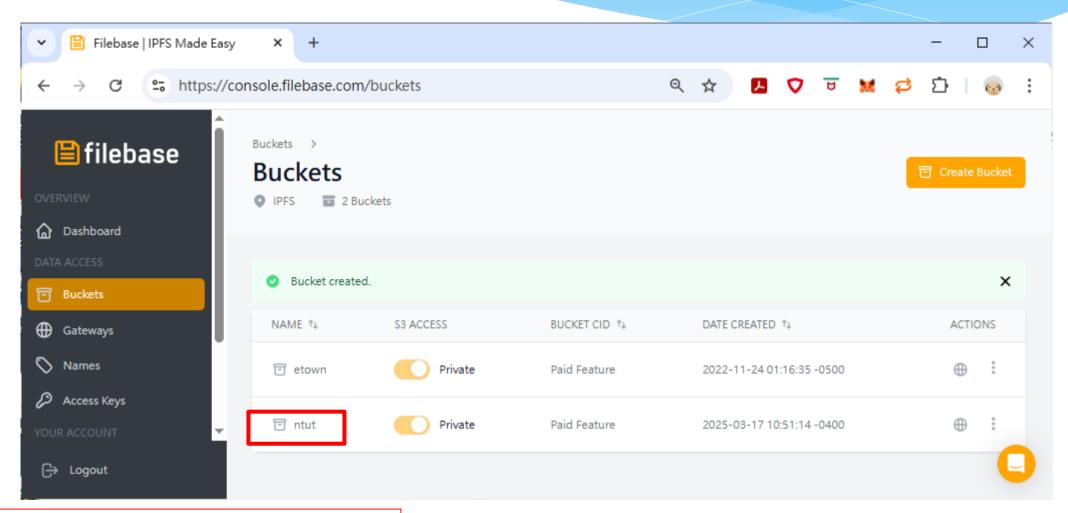
#### Create Bucket

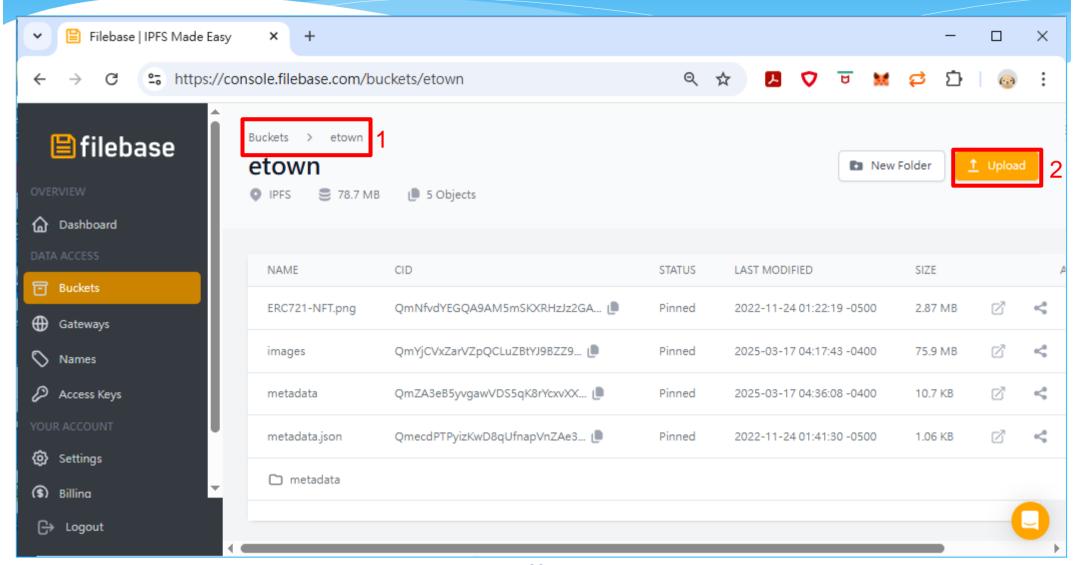


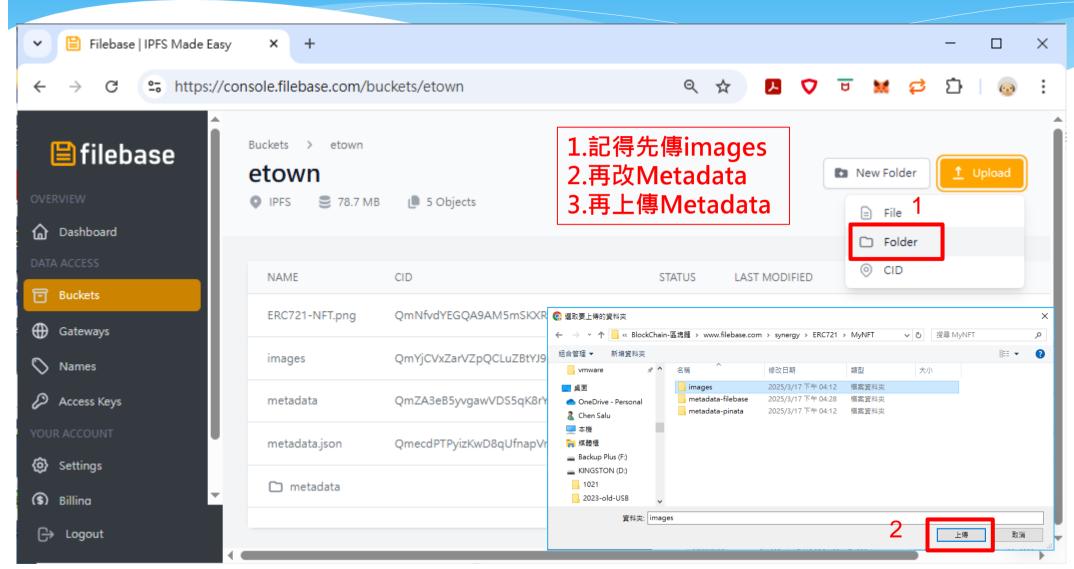
#### Create Bucket

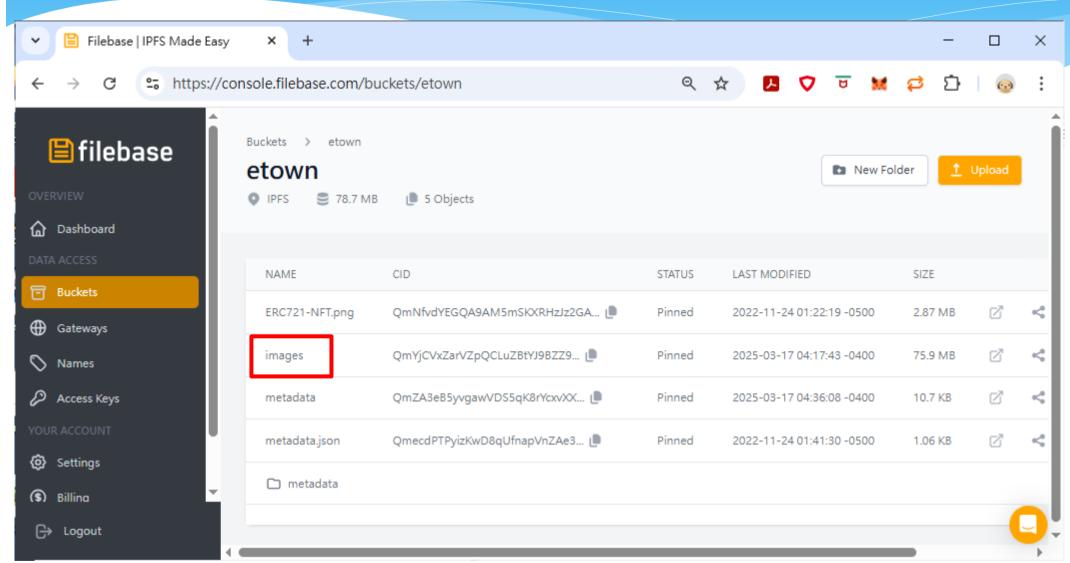


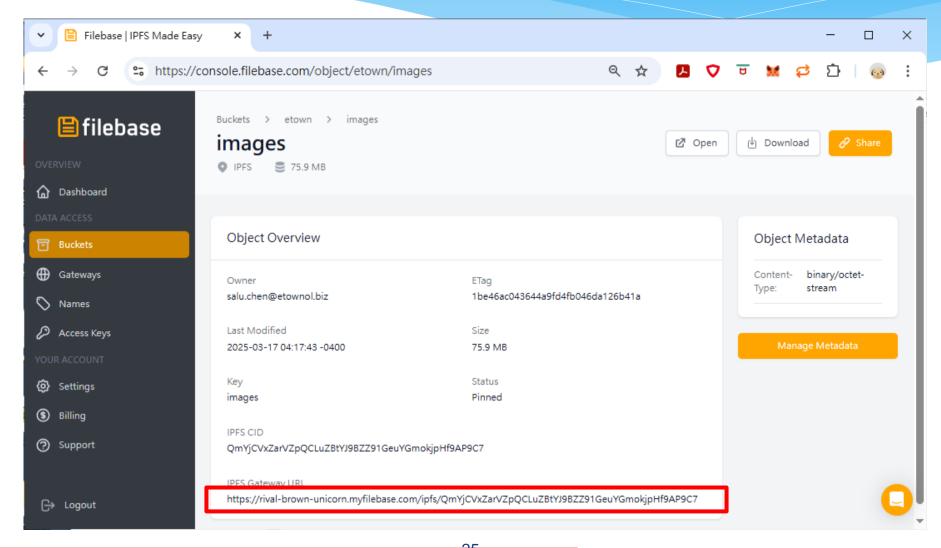
#### Create Bucket

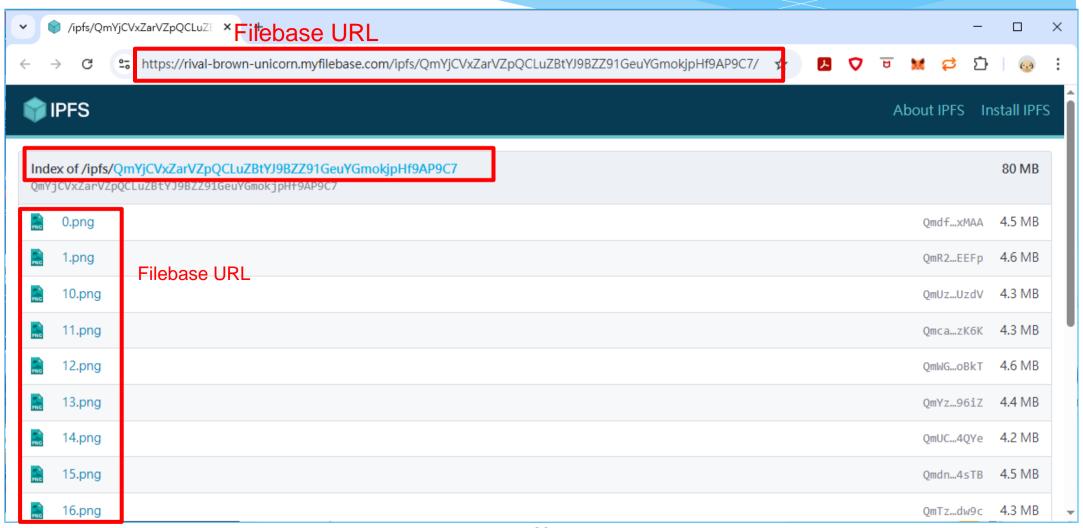


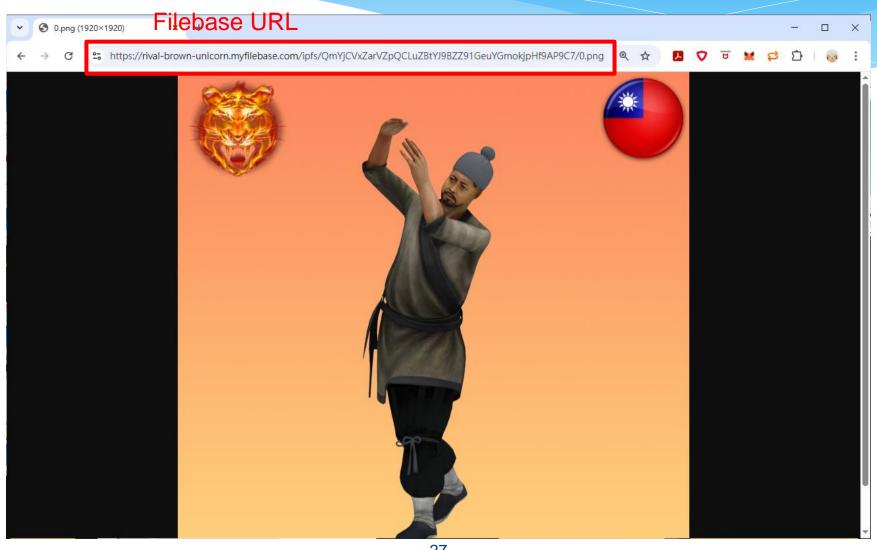












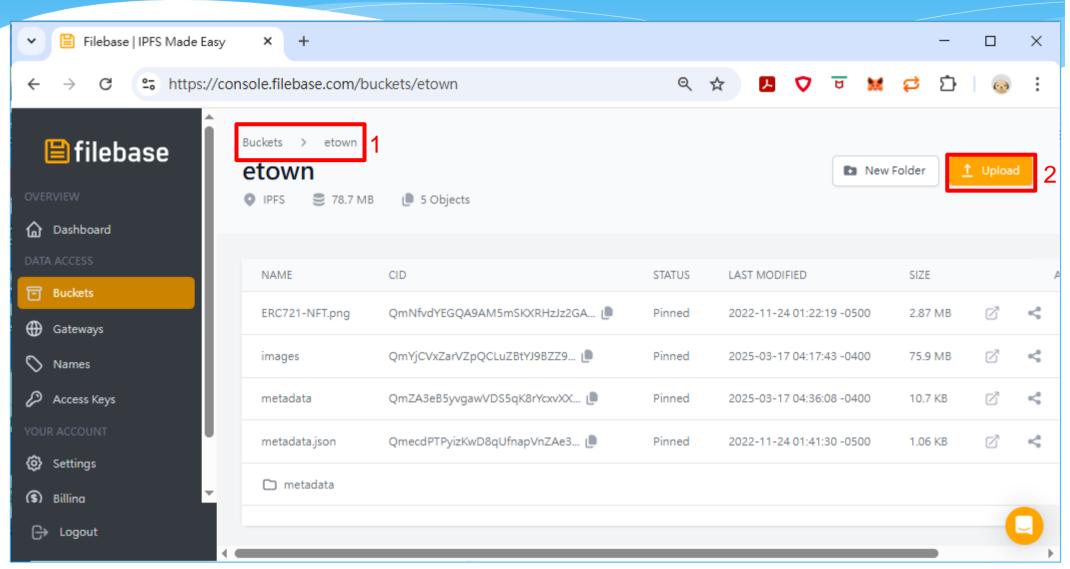


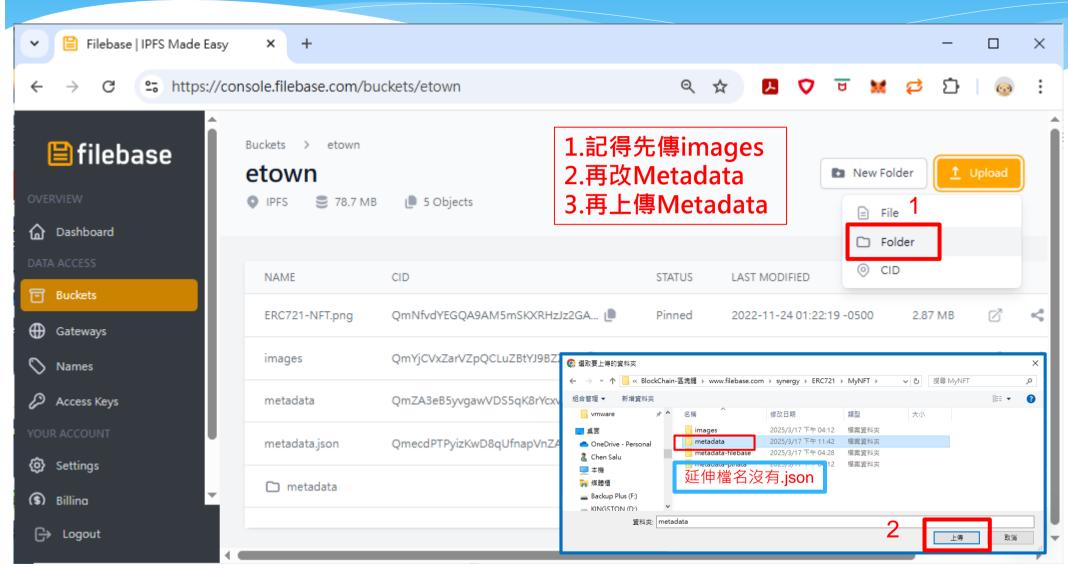
### Modify Metadata(.json)

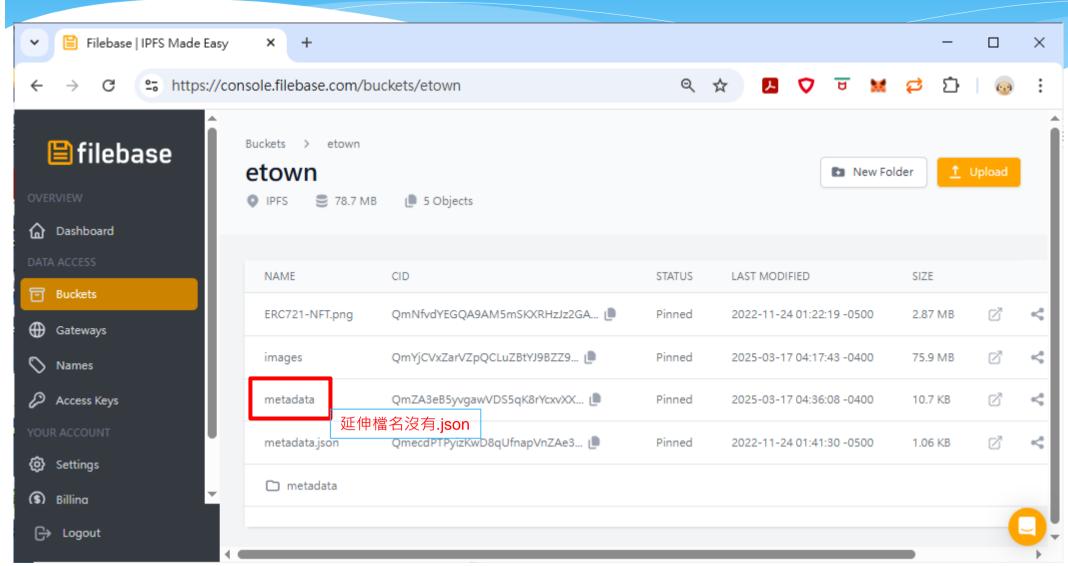
#### ※上傳metadata時,請先檢查延伸檔名是否需要.json

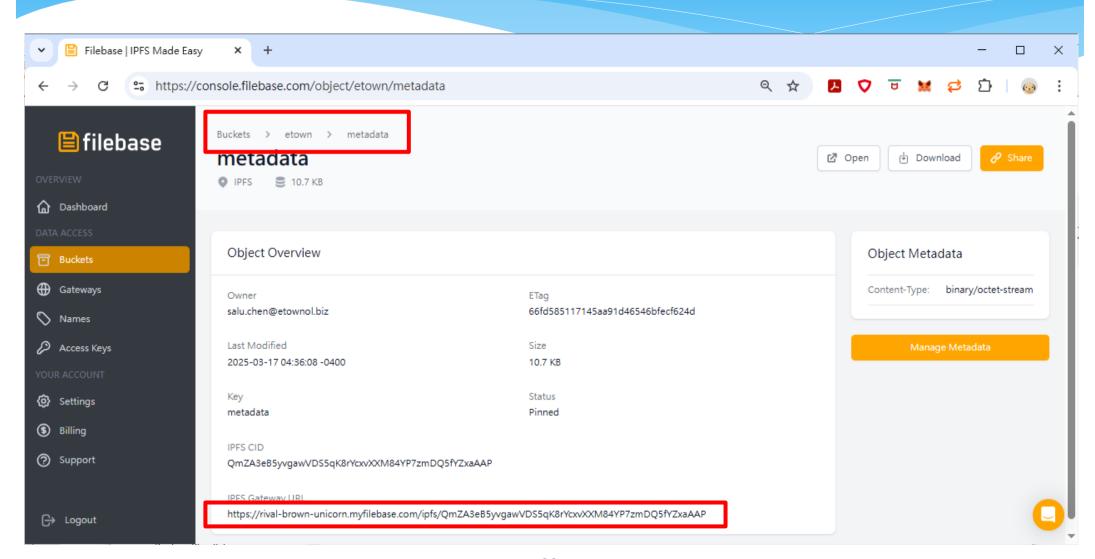
```
□0 ×
        "dna": "608749df3601613dd5b10d237e64316f",
        "name": "MyNFT #0",
        "description". "My first NFT project "
        "image": "REPLACE-THIS-WITH-YOUR-URL/0.png",
        "date": 1720148481487,
        "attributes": [
  8
  9
            "trait type": "Background",
            "value": "1"
 11
 12
 13
            "trait type": "Body",
            "value": "1"
 14
 15
 16
 17
            "trait type": "Flag",
            "value": "1"
 18
 19
 20
 21
            "trait type": "Animal",
            "value": "1"
 22
 23
 24
 25
        "compiler": "mintables.club"
 26
```

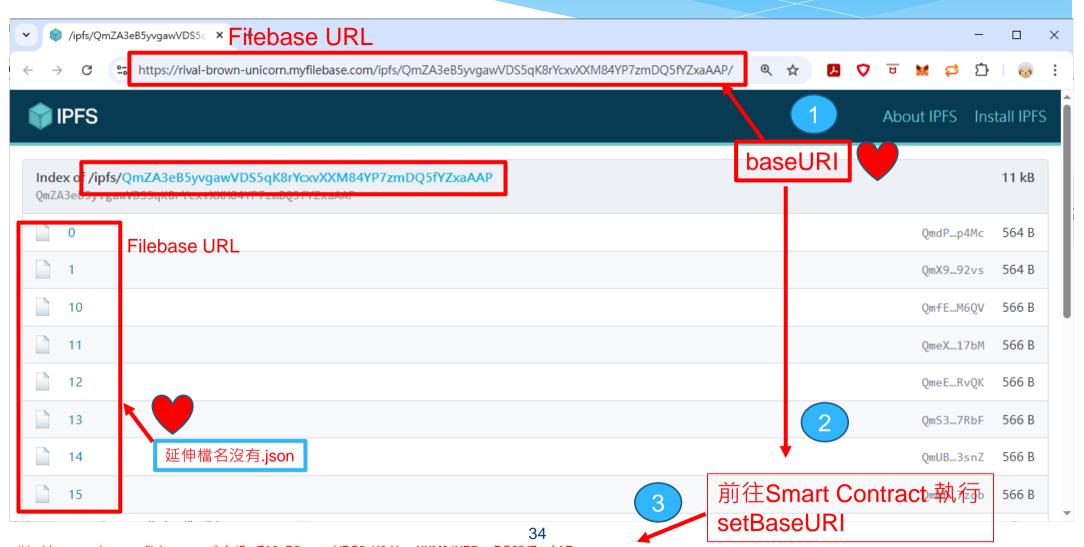
```
1
     "dna": "608749df3601613dd5b10d237e64316f",
     "name": "MvNFT #0",
     "description": "My first NFT project.",
     "https://rival-brown-unicorn.myfilebase.com/ipfs/OmYiCVxZarVZpOCLuZBtYJ9BZZ91GeuYGmokipHf9AP9C7/0.png"
     "date": 1/2014848148/,
     "attributes": [
                              1.把正式的Filebase URL補上去
       "trait_type": "Background", 當然也可以用IPFS URL
                              2.記得要把每一個image對應的metadata都要改
        "value": "1"
                              3.其他欄位則依你自己的需求做修正
12
        "trait type": "Body",
        "value": "1"
14
16
        "trait type": "Flag",
        "value": "1"
19
        "trait type": "Animal",
        "value": "1"
24
     "compiler": "mintables.club"
26
```













# Thank you!

