



Crust Solutions Handbook
Solve your business problems with Crust

2021.4

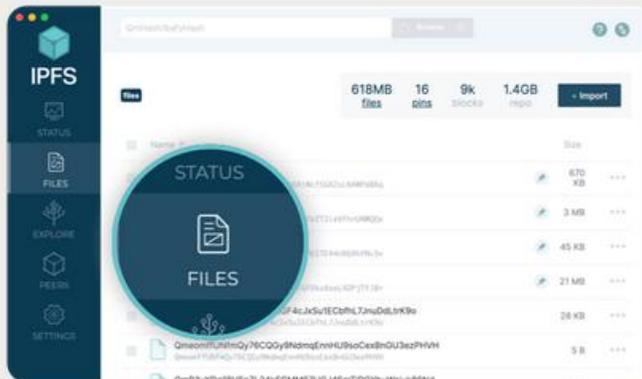
Crust provides a decentralized storage network of Web3.0 ecosystem. It supports multiple storage layer protocols such as IPFS, and exposes storage interfaces to application layer.

Crust Maxwell Preview Network was officially launched on February 4th of 2021. It integrates all core functions of Crust, including token staking, decentralized storage market (DSM), file retrieval mechanism, and more, aiming to provide same functions as the Crust MainNet.

Start using Crust with only 3 steps

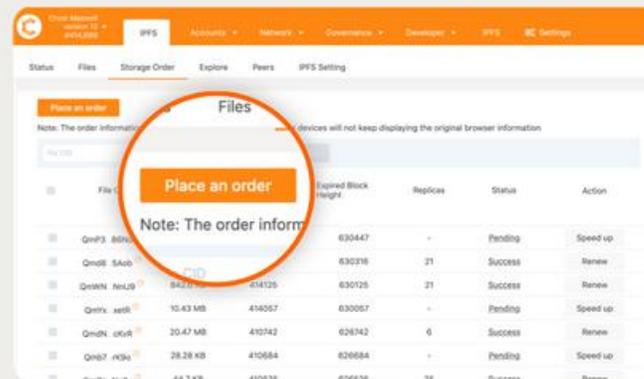
1. Store your file to IPFS network

```
added
QmQttmFtnV2NT91MkHti2a8iW8hCRH6
1TE44nR6XhfNv3v
```



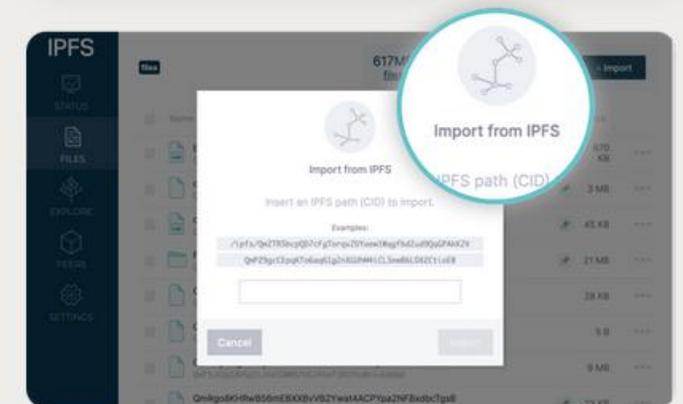
2. Generate storage orders for files in Crust network

```
QmQttmFtnV2NT91MkHti2a8iW8hCRH6
1TE44nR6XhfNv3v
```



3. Obtain your files through IPFS anytime, anywhere

```
ipfs get
QmQttmFtnV2NT91MkHti2a8iW8hCRH6
1TE44nR6XhfNv3v
```



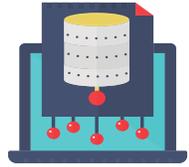


What Solutions and Services can be Built with Crust

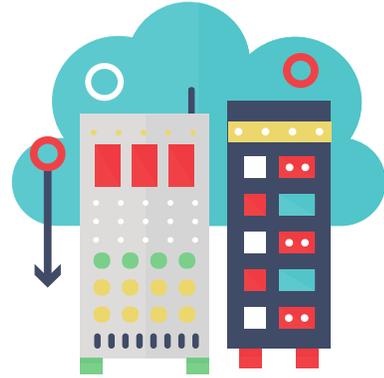
Website Deployment



Off-chain Data Storage
NFT Data



Content Storage



Storage



Delivery

Private Sharing



Content Delivery Platforms



Games



Music



Video



Images



Articles



Software



CRUST



How to Deploy a Website / DApp

Use Crust to deploy "serverless" websites and DApps



High Availability

High availability, never shutdown



High Security

Based on content addressing to prevent DNS hijacking



Low Cost

No server, 0 maintenance cost

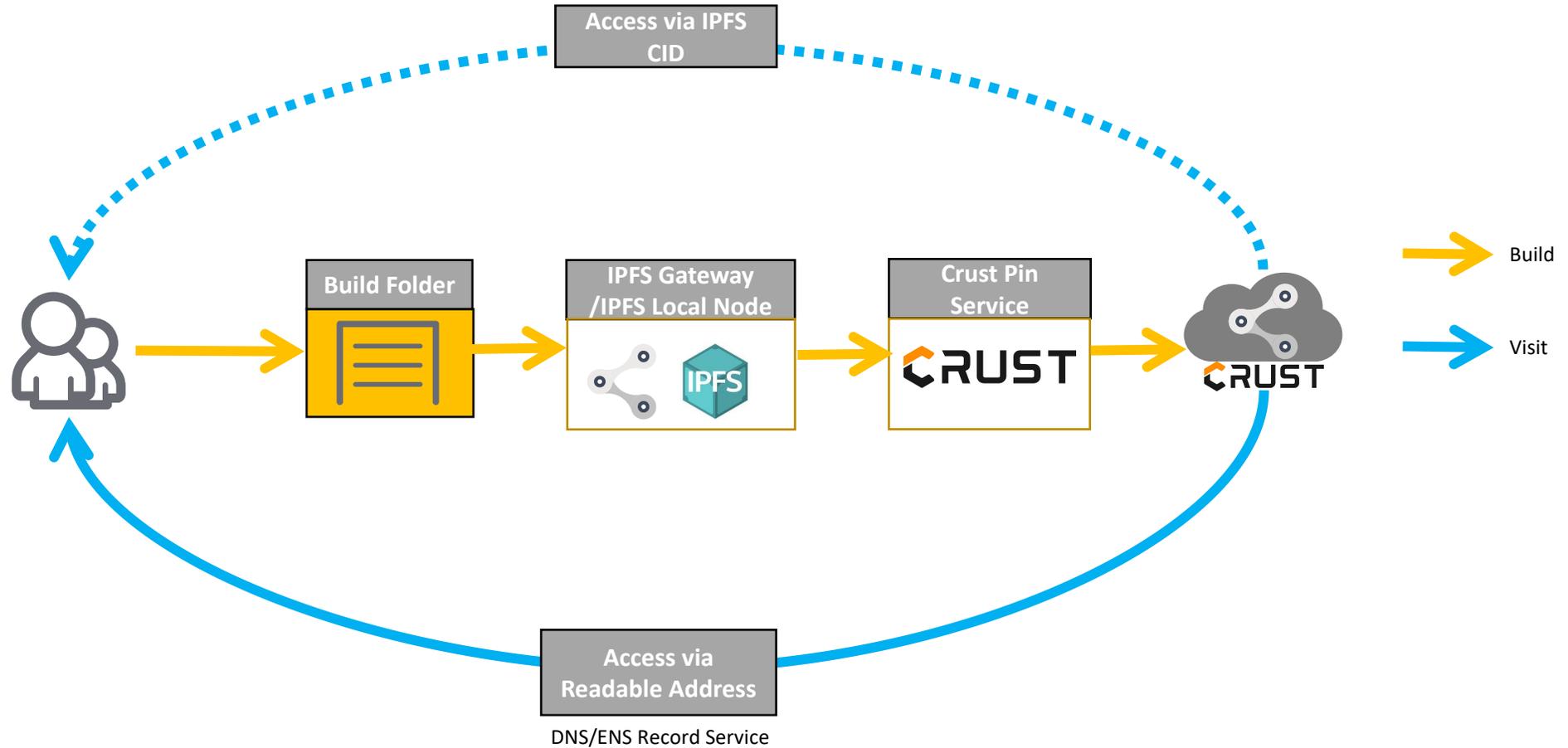


References



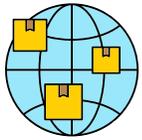


Website Deployment Implementation Path



Off-chain Data Storage

Use Crust to store off-chain data and NFT data, in a decentralized way



Decentralization

Data is not controlled by any organization or institution



High Security

Individual CID, data cannot be tampered with

The screenshot shows the BCAEX website interface with a navigation bar containing 'EN | 中文', 'MARKET', 'ARTISTS', 'STUDIOS', 'Blog', 'ACTIVITY', and 'APPLY AS AN ARTIST'. Below the navigation bar are three NFT listings:

- Balance** by Richard: A blurry landscape image.
- Nude** by Wu Jin: A vibrant, colorful abstract artwork featuring a face-like shape. An arrow points to this listing with the text 'Off-chain Data'.
- green flesh-3** by QiLe: A colorful abstract artwork featuring a face-like shape.

Below these are two more listings:

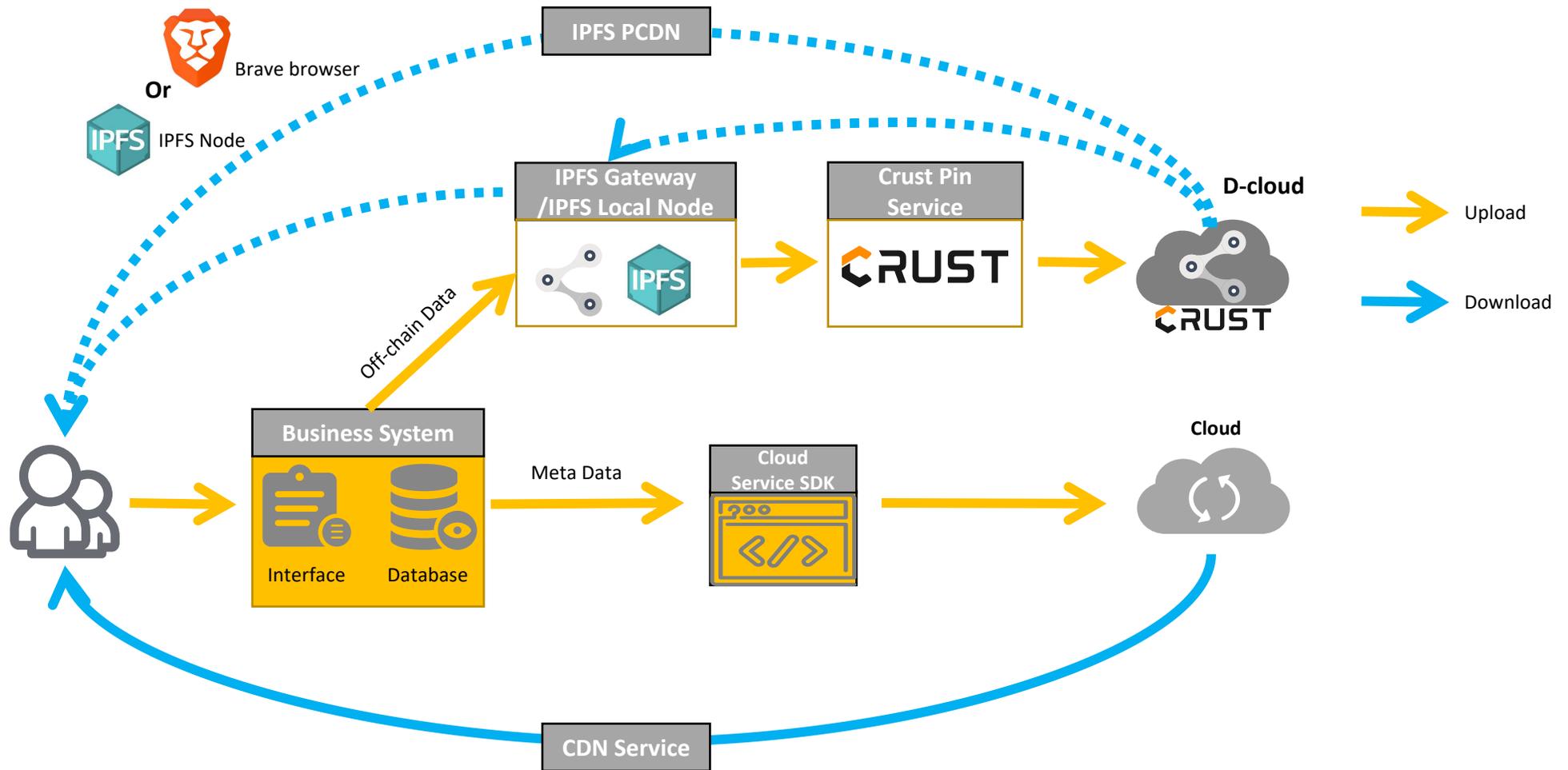
- black moon** by YinZiang: A dark, abstract image.
- independent3** by Mateo Gab: A colorful abstract artwork featuring a face-like shape.

References

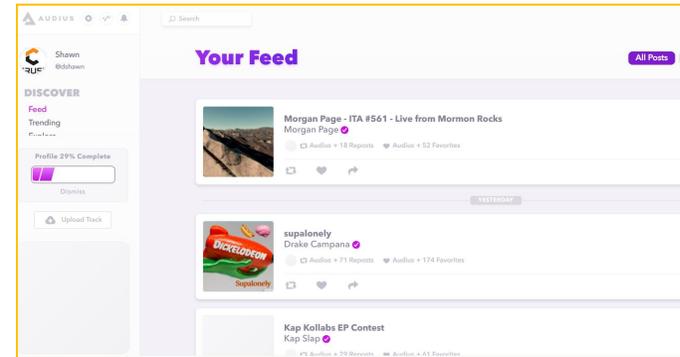
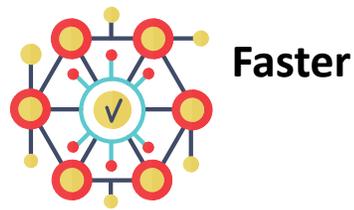




Off-chain Data Storage Implementation Path



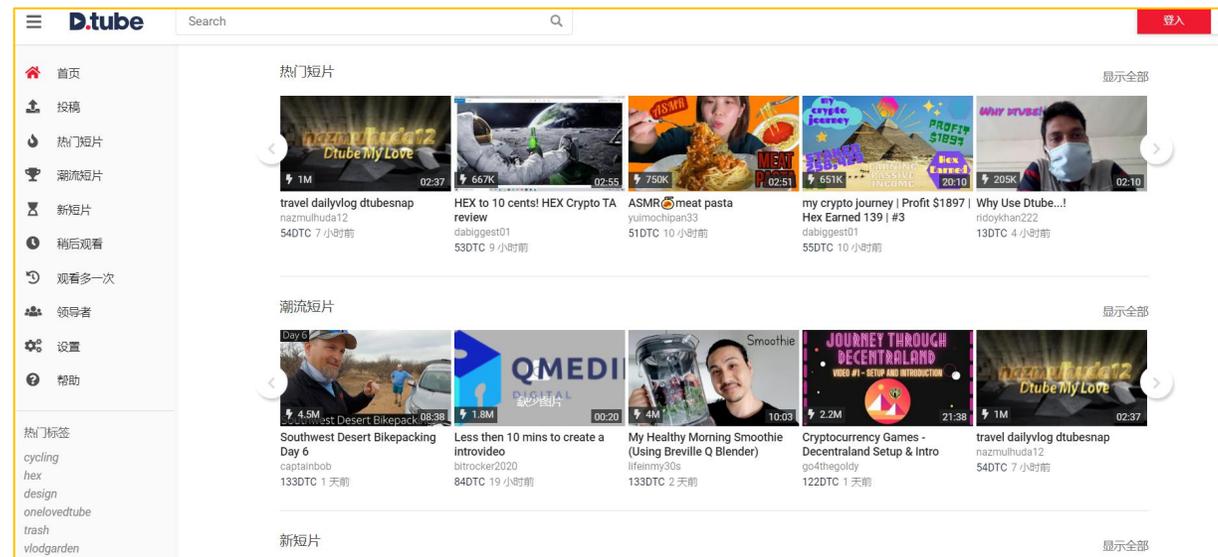
Use Crust as a content delivery network to accelerate user experience



References



Crust Network incentivizes the nodes to spontaneously distribute CDN data and play the role of CDN edge nodes to accelerate the data transmission



Use Crust for cloud storage, lower cost and more copies



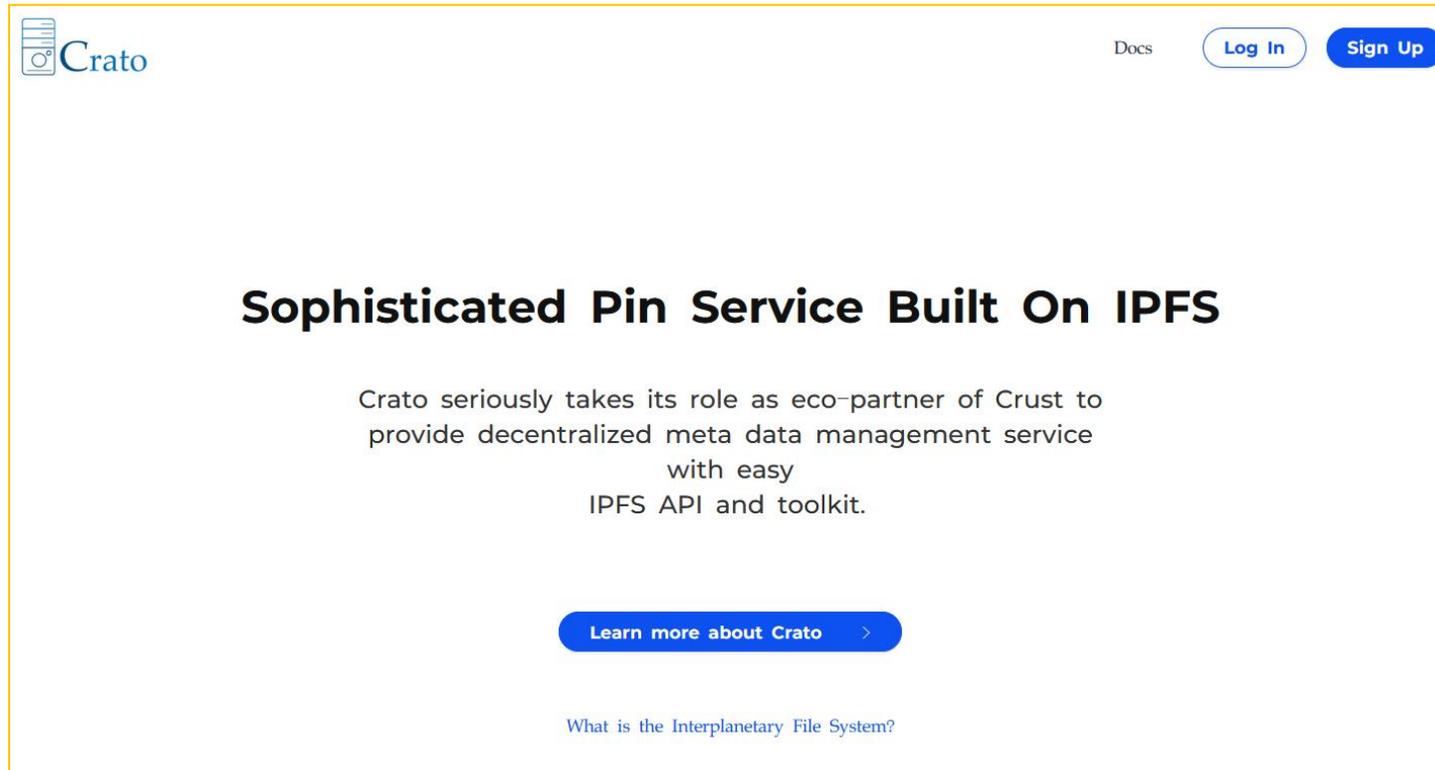
More Copies

The average quantity of copies of files on the network is more than 70. The files will not get lost and can be accessed at any time.



Lower Cost Copies

Compared with traditional cloud storage solutions, the storage cost on Crust is lower and there is no extra data fee.



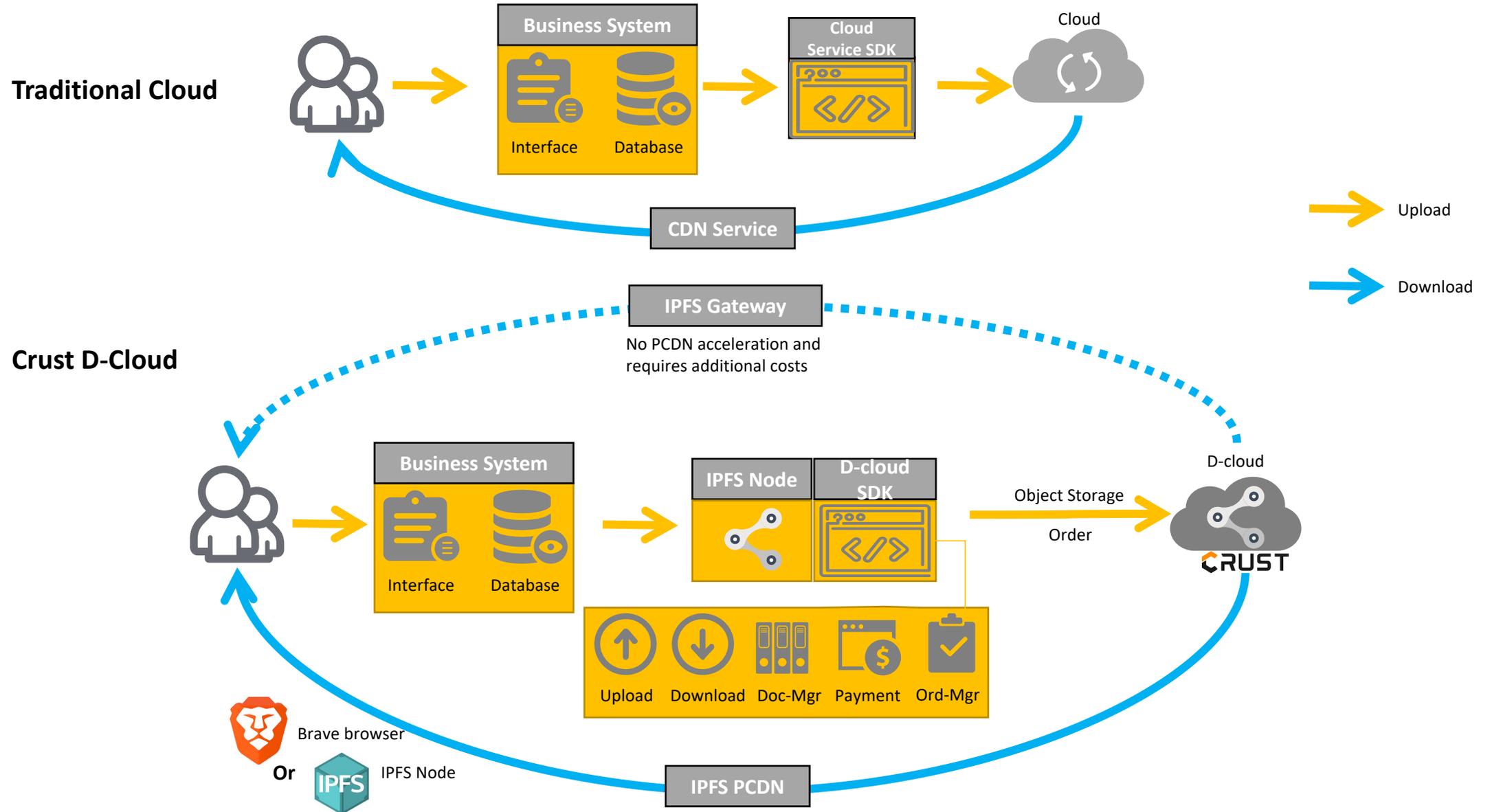
The screenshot shows the Crato website landing page. At the top left is the Crato logo. At the top right are links for 'Docs', 'Log In', and 'Sign Up'. The main heading is 'Sophisticated Pin Service Built On IPFS'. Below this is a paragraph: 'Crato seriously takes its role as eco-partner of Crust to provide decentralized meta data management service with easy IPFS API and toolkit.' At the bottom center is a blue button that says 'Learn more about Crato >'. At the very bottom is a link: 'What is the Interplanetary File System?'.

Reference





Storage and Delivery Implementation Path



Decentralized Cloud Storage Stack

You effectively enhance the value of the decentralized cloud by working on the following layers.

L3
Application Layer

User Based Applications

NFT

Content
Storage&Delivery

Website Hosting
Tools

Blockchain Based Applications

Explorers

Wallets

L2
API Layer

Development Tools

Multi-Language SDKs

API Documents



Decentralized Cloud Foundation

A non-profit organization aiming to connect people into decentralized cloud of Web3.0

As a non-profit organization, DCF aims to link more people to Web3.0 decentralized cloud services.

We provide developers with technical and funding support, to encourage more people to participate in building Crust ecosystem.

Crust Grants is launched now, you can visit

<https://decloudf.com/> to apply.