GET IN TOUCH

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Upon request, a presentation and demonstration of the Hypercube solution can be scheduled on your premises.

KEY FUNCTIONALITIES

• Resilient to crypto-viruses
• Virtualisation of Windows, Linux, FreeBSD and others
• Storage: disks, snapshots and backups
• Redundancy: mirroring cross-servers, metadata in the blockchain
• Configurable RPO
• IaaS: Infrastructure as a Service

SUPPORT 24/7

Acquiring the Hypercube solution grants 24/7 access to the EFit-partners' support team. Upon the client's request, a complete DRP test can be scheduled on a regular basis. EFit-partners can also organise a preparatory audit before the Hypercube is deployed.

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Hypercube

HYPERCONVERGED ICT INFRASTRUCTURE RESILIENT TO CRYPTO-VIRUSES, POWERFUL AND EVOLVING.

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The Hypercube is a hyperconverged virtualisation system. It allows for an organisation's servers to be consolidated on a single platform

About
EFit-partners

Founded in 2001, **EFit-partners** (a Mechanesys brand) is an enterprise specialising in IT infrastructure, from its architecture to deployment and management.

Having first concentrated its efforts on large accounts in the banking, military, transport and public sectors, among others, EFit-partners decided in 2014 to focus on bringing its skills and technological know-how to small and medium-sized enterprises, drawing on its vast experience in the corporate world.

In 2021, EFit-partners, responding to clients' needs and technological developments, devised a hyperconverged solution, the Hypercube.

All-in-one solution

The Hypercube provides:

- ✅ **Virtualisation:** Windows, Linux or FreeBSD
- ✅ **Storage:** disks (LUN), snapshots (snapshot view of a virtual machine) and backups (remote copying of a VM)
- ✅ A part of the **network** (VLAN, LACP, etc.).

The nodes are interconnected via a blockchain, which provides them with real-time instant information on the state of each element of the Hypercube: nodes, virtual machines, storage and network.

Its graphic interface, also connected to the blockchain, facilitates everyday management.

ⓘ From small organisations with a couple of dozen employees all the way to large enterprises spread across several sites, the Hypercube adapts to evolving needs.

OUR 9 ADVANTAGES

Easy to install

Once the first node has been connected to the network, the Hypercube is up and running in less than 10 minutes. The addition of new nodes is just as fast.

Open Source

The Hypercube's code is publicly available in open-source. Besides ensuring the transparency and longevity of the system, the use of the Hypercube will not entail any licensing costs.

Resilient to crypto-viruses

Any organisation is at risk of a cyber-attack.

The Hypercube offers a remedial solution through snapshots taken at regular intervals: every day, every hour, or even every few minutes, depending on the desired RPO. The impact of any ransomware, leading to data encryption and unavailability, is limited to the rebooting of the affected virtual machines, by using said snapshots. Thus, the Hypercube is a machine that can be used to turn back time and guarantee operational continuity.

Versatile

It allows you to virtualise Windows, Linux, FreeBSD or other systems, without needing to install and manage the virtualisation servers and NAS/SAN storage separately.

Evolving

The Hypercube evolves according to the company's needs, thereby expanding its security perimeter. Once the first node of the Hypercube has been installed, new nodes can be added quickly and in all transparency.

Graphic interface

The Hypercube's graphic interface facilitates its daily management, limiting the need to resort to the line of command.

Available

The virtual machines can be installed on mirrored disks distributed across various nodes. If a node should fail, the system administrator will simply need to reboot the virtual machines on another node and, if need be, replace one route of the mirror, all without any data loss.

Blockchain

The blockchain allows for a synchronous, secure and transparent distribution of the Hypercube's configuration data to all nodes, in identical fashion. Furthermore, it enhances the trust and traceability of the data with unheard-of efficiency.

Decentralised

The use of blockchain allows for total decentralisation, which enhances security. All of the Hypercube's functionalities are available and accessible from each of its nodes without distinction. This eliminates the risk and inherent complexity associated with a centralised platform tasked with the management, operation and provisioning of its resources.

◈ **Hypercube**