

## BLOCKCHAIN

# Redes Blockchain

### HOW CAN TELEFÓNICA TECH HELP?

We operate your Blockchain nodes or networks whatever technology you use to connect your solution.

Companies that decide to adopt **Blockchain** in their products or processes, must make a technological decision about the specific Blockchain technology to implement, as well as which public network or private consortium to join.

In any case, it must establish a team of qualified professionals with experience in these technologies to deploy the nodes of the chosen network and take care of monitoring their operation, keeping them operational and reacting to any incidents, with the added complexity of decentralized ecosystems where the operation, performance and functioning of the network can be affected by third party activities in other nodes.

As part of the integral proposal of Blockchain solutions, we offer you the possibility **to deploy and operate Blockchain infrastructure**, either as part of your company's own vertical solution, creating a private network or, to connect with pre-existing consortium networks.

We offer our services mainly for Blockchain networks based on EVM (Ethereum Virtual Machine) technology due to its growing popularity in the industry and the possibility of guaranteeing service levels in all layers of the technology stack, although we can also operate nodes in other technologies (Hyperledger Fabric/Besu, IPFS, etc.).

### WHO IS THIS SERVICE FOR?



Companies with proofs of concept or Blockchain projects already in operation, that have proven their value to the company and want to professionalize their maintenance or outsource it as a service so that their operations department does not grow with Blockchain specialists.

## OUR VALUE PROPOSITION

### Our service

Our Blockchain infrastructure service allows us **to deploy nodes and networks** of this technology integrated in the computing services managed by Telefónica, complying with our quality standards in terms of service continuity, redundancy, availability, security, and flexibility in terms of the eventual evolution of the architecture. The different components and services are arranged according to a modular architecture that allows us to respond to different incidents while minimizing the eventual impact on the service.

We can provide an **operational support service** of the deployed Blockchain platforms for the correct and optimal exploitation of the same. We can also guarantee the constant incorporation of new technologies and/or available networks that could be better adapted to the needs of the projects. This service also includes **incident management** to guarantee response and resolution times adequate to the client's requirements.

### What does it allow you to do?

The infrastructure to be deployed will depend on your Blockchain adoption requirements. These may include:

- › Deploy a new node (with a role to be determined by the different technologies) that will connect and start operating in a pre-existing network. The monitoring of the node will be done using Telefónica's tools and following Telefónica's standards, although integration with other environments and governance requirements will be valued.
- › Deploy a new network from scratch. In this case it can either use standard software distributed by the main

industry communities (e.g. Ethereum or Hyperledger Besu), or fully functional nodes to replicate other market initiatives (e.g. EBSI). As part of the network, basic utilities are provided to allow monitoring its operation (e.g. block explorer).

All environments are deployed following a container-based SW architecture, allowing deployment in any public (AWS, Azure, etc.) or private cloud environment, even on-premises at the customer's premises.

### Benefits

#### Simplifies Blockchain network operation tasks

It enables your company to take responsibility for the operation of Blockchain nodes and networks without the need for technology knowledge, equipment or specialized resources.

#### Innovation and brand image

Adopting Blockchain in your company, either by deploying its own network or by connecting a node to an existing one, allows you to improve your company's image and its innovative and disruptive character.

#### Adaptation to market technologies

Telefónica's team is continuously training in the latest Blockchain technologies and networks in the market. In this way, if a new technology appears in the coming months, the team will be able to incorporate it as a possibility when deploying a new node or network.

## Valor diferencial de Telefónica Tech



We are part of national and international forums and consortiums (Alastria, INATBA, LACChain, etc.).



Multi-technology know-how and experience allowing interconnection with public and private networks.



The service levels we offer are equivalent to those of other telco services for all levels of the technology stack.

### BUSINESS MODEL

It is a variable subscription service depending on the complexity of the architecture to be deployed and the level of service in terms of attention and response times in the event of incidents.

### RELATED PARTNERS



### RELATED SERVICES

#### AI & Data Consulting

We design a master plan of transformation around data using as a lighthouse the priorities of your business and building from them the technological ecosystem of IoT and Artificial Intelligence with the aim that your company takes advantage of the potential of these new technologies and obtain new lines of revenue, optimize costs or reduce risk.



## Hybrid Cloud

We drive your growth with multicloud solutions from our partners:

AWS by Telefónica Tech 

Microsoft Azure by Telefónica Tech 

Google Cloud Platform by Telefónica Tech 

Oracle Cloud Platform by Telefónica Tech 

We also offer the Telefónica Tech Cloud Platform service, an integrated Cloud solution from on-premises to our Data Center and Edge, with multiple telco connectivity alternatives and local nodes in seven countries.

Telefónica Tech Cloud Platform 

## Private Mobile Networks

The industrial network enables critical business operations, ensuring continuity, flexibility, and mobility of processes, in order to favor the rapid adaptation of production chains. It allows real-time response with low latency depending on the criticality of the business.



Contact us to start the digital transformation of your organization.

