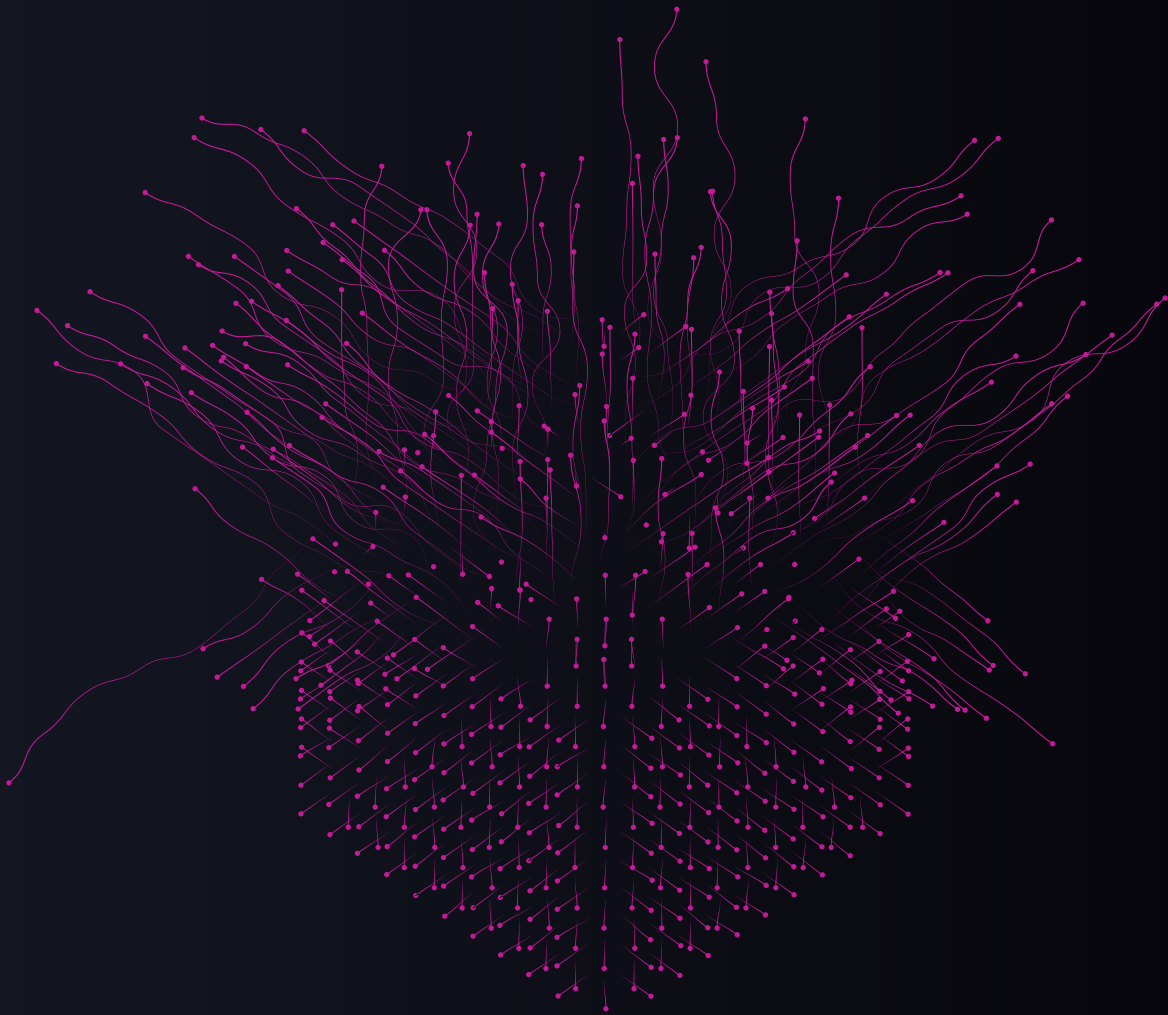




Octa.Space

PROJECT BRIEF



THE FUTURE OF DISTRIBUTED COMPUTING

OVERVIEW

OctaSpace is a cutting-edge distributed computing platform that offers a wide range of services to meet the diverse computing needs of users. Our mission is to provide a decentralized and versatile ecosystem that empowers individuals and organizations with access to powerful computing resources and innovative tools.

We aim to revolutionize the way people leverage technology by delivering secure and efficient solutions for tasks such as VPN, deep learning, rendering, data exploration, and more.

With OctaSpace, users can unlock the potential of distributed computing and harness the power of advanced technologies to drive their projects and ideas forward.

A BLOCKCHAIN-POWERED DECENTRALIZED COMPUTING PLATFORM.



CORE SERVICES & FEATURES

SERVICES

Users have the flexibility to rent various services based on their specific requirements. Our current service offerings include:

VPN

01

VPN: Enhance privacy and security with our VPN service.

DEEP LEARNING

02

Harness the power of TensorFlow and PyTorch for deep learning tasks.

GPU-ACCELERATED RENDERING

03

Utilize Blender with GPU acceleration for high-performance rendering.

DATA ANALYSIS

04

Explore data and perform analysis using Jupyter Notebooks.

SECURITY TOOLS

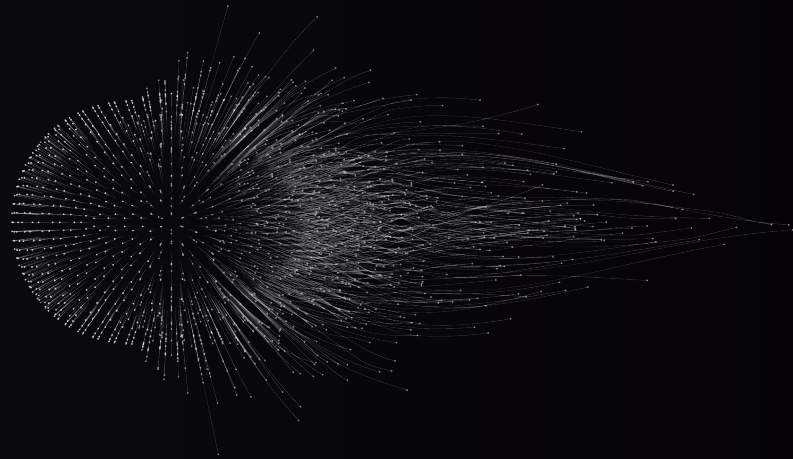
05

Benefit from Hashcat's CUDA/OpenCL capabilities for password recovery.

AI TOOLS

06

Leverage AI tools like Stable Diffusion and OpenAI Whisper to unleash your potential.



PLATFORM

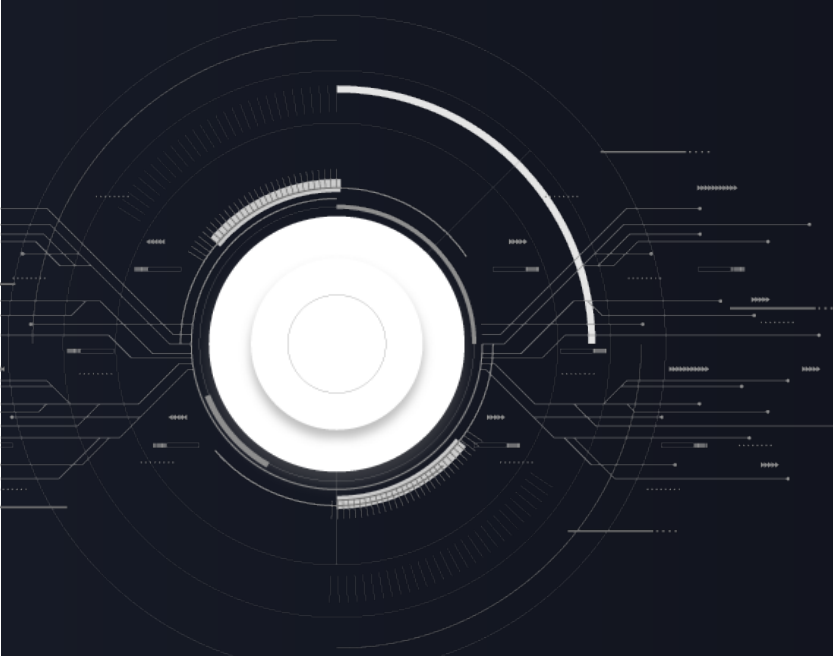
OctaSpace provides a decentralized computing platform catering to a wide array of user computing requirements. Having launched its mainnet on June 19th, 2022, our services are readily accessible for users to leverage and benefit from.

OctaSpace operates through a marketplace where users can provide nodes, with node owners having the ability to determine their own pricing. This decentralized approach allows for a dynamic and competitive ecosystem.

By leveraging OctaSpace's services, users can access a wide array of computing resources, tailored to their specific needs in terms of service, hardware, and pricing requirements.

UNIQUE SELLING POINTS (USPS)

What sets OctaSpace apart.



01.

DECENTRALIZED MARKETPLACE

OctaSpace operates on a decentralized marketplace model, allowing users to provide nodes and determine their own pricing. This decentralized approach fosters a competitive and dynamic ecosystem, offering users more choices and ensuring fair pricing.

02.

COMPREHENSIVE SERVICES

Unlike other projects which provide a single type of service, OctaSpace provides a comprehensive suite of services under one platform.

03.

TRANSPARENCY & SECURITY

OctaSpace prioritizes transparency and security. Through the use of blockchain technology, transactions and interactions on the platform are recorded immutably, ensuring transparency and accountability. Additionally, OctaSpace employs robust security measures to safeguard user data and maintain the privacy of users' computing activities.

04.

FLEXIBILITY

Users have the flexibility to choose the services that align with their specific requirements. Whether it's the choice of hardware, software, or pricing, OctaSpace allows users to customize their computing resources to suit their individual needs.

05.

FAIR ACCESS TO RESOURCES

OctaSpace's node rental model ensures that users have fair access to the available resources without having to pay a premium for priority service. By allowing node owners to set their own pricing, the platform promotes competition, preventing monopolization and ensuring that users can obtain the computing resources they need at a reasonable cost. This fair and open marketplace approach eliminates the need for users to pay extra for priority access, making the services more accessible and affordable for everyone. OctaSpace empowers users by democratizing access to computing resources, enabling a level playing field for all participants.

BLOCKCHAIN

DUAL-CHAIN

OctaSpace operates on its own native EVM-compatible blockchain, leveraging go-Ethereum technology. This blockchain employs a dual-chain system, combining Proof-of-Work (PoW) and Proof-of-Authority (PoA) consensus mechanisms.

LAYER 1 (POW)

Handles account balances, service distribution, and staking rewards.

LAYER 2 (POA)

Internal sidechain which executes transactions during charging procedures to enhance efficiency.

NATIVE COIN

OCTA serves as the native coin of the OctaSpace project, acting as the primary payment instrument for services, rewarding node owners, and distributing dividends to OCTA holders.

NO PRE-MINE OR PRE-ALLOCATION:

OctaSpace was launched with a fair distribution model, ensuring that no Coins were pre-mined or pre-allocated to any individuals or entities, including the project team.

This means that all OCTA coins are distributed through mining and other mechanisms, allowing for a decentralized and equitable distribution of tokens.

EMISSION SCHEDULE

The provided emissions schedule showcases the gradual reduction of block rewards in each era, culminating in the attainment of the maximum supply and the cessation of mining activities after block 12,000,000. Our monetary policy outlines the allocation of blocks for miner and staking rewards, as well as the development fund, ensuring a balanced distribution.

TICKER

\$OCTA

CONSENSUS

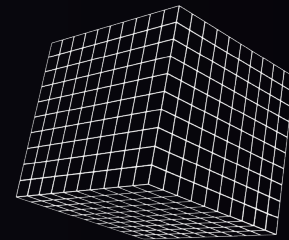
Proof-of-Work

MAX SUPPLY

48 million

BLOCK TIME

15 seconds



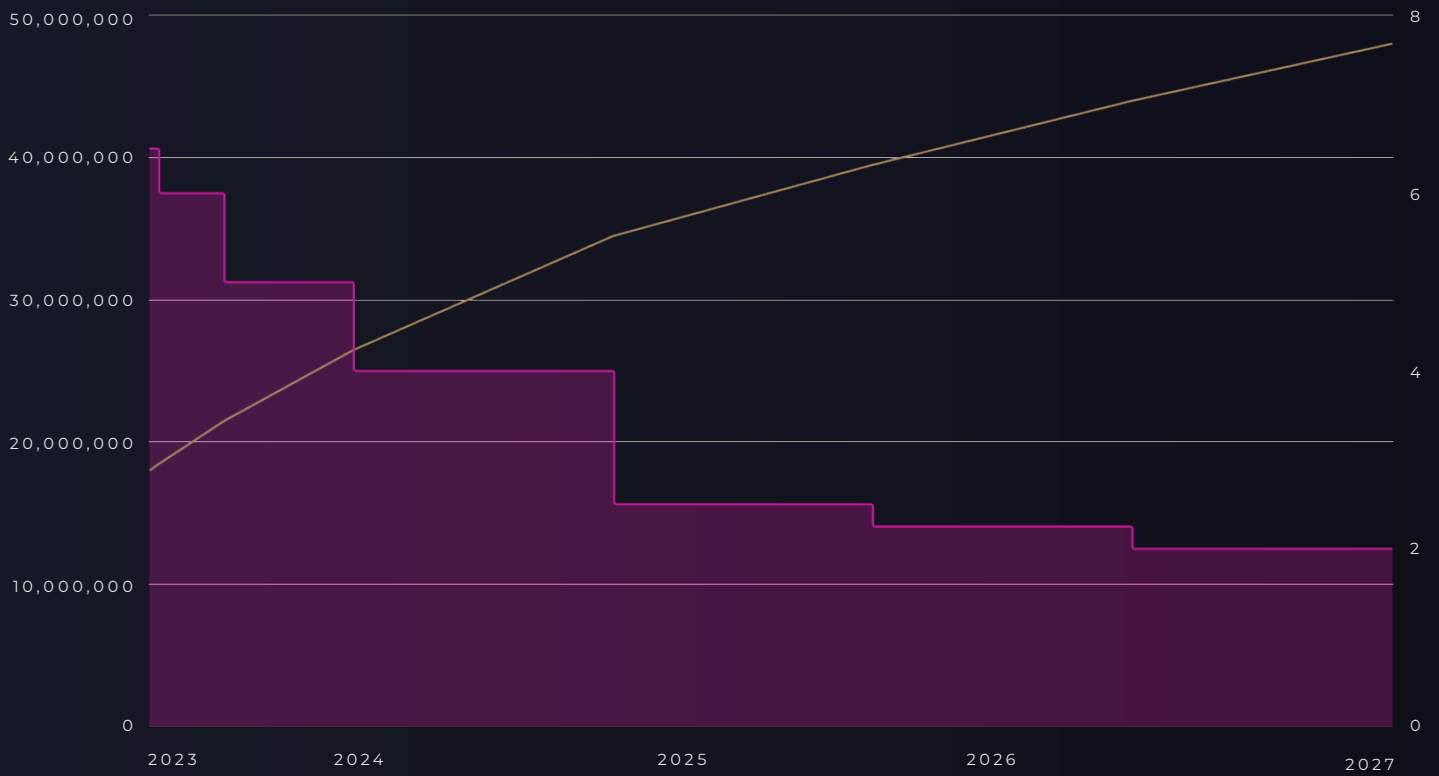
RELEASE	BLOCK	TOTAL	MINER	STAKING	DEV
SPRINGWATER	2,000,000	6.5	3	3	0.5
POLARIS	2,500,000	6	2.8	2.8	0.4
MAHASIM	3,000,000	5	2.3	2.3	0.4
DNEPR	4,000,000	4	1.85	1.75	0.4
BLACKEYE	6,000,000	2.5	1.2	1	0.3
VEGA	8,000,000	2.25	1.2	1	0.3
TRIANGULUM	10,000,000	2	1	0.7	0.3

Please note that the previous eras, namely Octa, Arcturus, Oldenburg, and Zagami, are not listed in the table provided here. However, you can find information about these eras on our website.

TIMELINE

The chart presented below starting from Springwater, illustrates the gradual decrease in block rewards as the supply increases, giving an overview of the estimated timeline until the maximum supply is attained.

BLOCK REWARD VS SUPPLY



STAKING

STAKING OCTA

To participate in staking on the OctaSpace network, certain requirements must be met. These include:

COLLATERAL

Stakers are required to hold a minimum collateral of 100,000 OCTA.

01

NODE RELIABILITY

Nodes must have a minimum reliability score of 95% over the last 30 days.

02

VERIFICATION

Nodes need to go through a verification process to ensure their authenticity.

03

HOW IT WORKS

Once the node and staking configuration are completed, the system will initiate periodic checks to monitor node availability and wallet balance. If the system detects that a wallet's balance falls below 100,000 OCTA, staking for that particular node will be deactivated.

It is essential to maintain a high uptime for your node, as nodes with uptimes below 95% over the last 30 days will not be eligible for rewards.

REWARD DISTRIBUTION

Staking rewards are distributed on a weekly basis, with each billing period lasting 7 days.

- **60% BASE REWARD**
- **10% VPN REWARD** - awarded to each node providing VPN services.
- **10% RENT REWARD** - awarded to each node offering rental services.
- **20% GPU REWARD** - awarded to each node providing rental services with GPU capabilities.

In the event that there are no nodes eligible for the 40% distribution (excluding the base reward), the remaining coins will remain in the staking fund for the next round.

DEV FUND

PROJECT FINANCING

At OctaSpace, we believe in sustainable development and continuous improvement of our ecosystem. To support ongoing development efforts, we have established a Dev Fund. Here are key details about the OctaSpace Dev Fund:

- FUNDING SOURCE** 01
 - The OctaSpace Dev Fund is primarily funded by a portion of the block rewards generated on the OctaSpace blockchain
 - Following the mainnet launch, a monetary policy was implemented to allocate a specific amount of OCTA coins from each block transaction to the Dev Fund.
- FUNDING ALLOCATION** 02
 - As defined in the Block Emission table a small amount of the total OCTA generated per block is allocated to the Dev Fund.
 - This allocation ensures a steady flow of resources to support ongoing development, innovation, and ecosystem expansion.
- MONETARY POLICY ADJUSTMENTS** 03
 - As part of our long-term roadmap, there are planned adjustments to the funding allocation for the Dev Fund.
 - Specifically, at the Polaris fork or block 2,500,000, the allocation to the Dev Fund will be reduced to 0.4 OCTA per block.
 - These adjustments are implemented to strike a balance between sustaining development efforts and maintaining a fair and efficient coin distribution.
- DEVELOPMENT AND INNOVATION** 04
 - The funds accumulated in the Dev Fund are primarily used to fuel the continued development of OctaSpace's core infrastructure, services, and ecosystem.
 - By allocating resources to development, we aim to enhance the platform's features, security, scalability, and user experience.
 - Additionally, the Dev Fund supports research, innovation, and the implementation of new technologies to drive the growth and evolution of OctaSpace.
- TRANSPARENCY AND ACCOUNTABILITY** 05
 - OctaSpace is committed to maintaining transparency and accountability in the utilization of Dev Fund resources.

DEV FUND WALLET

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The OctaSpace Dev Fund plays a vital role in supporting ongoing development, innovation, and ecosystem expansion. By dedicating a portion of the block rewards to the Dev Fund, we can sustainably drive the growth and success of the OctaSpace platform.

ROADMAP 2023

INTEGRATION

EXPOSE PUBLIC API

✓ COMPLETED

With our new API, users can seamlessly interact with our platform, automating tasks and enhancing their experience. Rent machines, manage services, fetch information, and more – all through a user-friendly HTTP Restful API.

TESTNET LAUNCH

✓ COMPLETED

Launched a TESTNET environment, providing developers with the opportunity to build and test decentralized applications on the OctaSpace blockchain.

VPN BROWSER EXTENSION

Develop a browser extension that integrates its VPN service, enhancing user privacy and security while browsing the internet.

MOBILE VPN APP

Focus on developing a mobile app for its VPN service, making it more accessible and convenient for mainstream users.

OCTA<->BSC BRIDGE

Introduce a bridge between the OCTA token and the Binance Smart Chain (BSC), enabling seamless interoperability and liquidity between the two ecosystems.

SERVICES & UTILITY

BLENDER DISTRIBUTED RENDERING

✓ COMPLETED

Enable rendering of Blender scenes across OctaSpace nodes directly from Blender, integrated with a native plugin. Users will have the convenient ability to download results directly via their browser.

AI TOOLS

✓ COMPLETED

Integration of AI Tools such as Stable Diffusion for AI-generated art and OpenAI Whisper for advanced language models, as well as video transcription and translation.

INSTANT FILE SHARING SERVICE

Develop an instant file sharing service, allowing users to securely and quickly share files with others.

APPLICATION DEPLOYMENT SERVICE

Provide a service for deploying applications and databases, simplifying the process for users who need to set up and manage their applications and databases.

PROCEDURAL GENERATION FOR PHOTOREALISTIC 3D WORLDS

Introducing a robust procedural generator for photorealistic 3D scenes in Blender. This feature enables the creation of diverse natural objects and phenomena, including plants, animals, terrains, fire, clouds, rain, and snow. With this advanced procedural generation on OctaSpace, users gain access to a powerful tool for generating lifelike landscapes and natural elements in their Blender projects.

USEFUL LINKS

LINKS

WEBSITE: [HTTPS://OCTA.SPACE/](https://octa.space/)

WHITEPAPER: [HTTPS://WHITEPAPER.OCTA.SPACE/](https://whitepaper.octa.space/)

BLOCK EXPLORER: [HTTPS://EXPLORER.OCTA.SPACE/](https://explorer.octa.space/)

CONSOLE: [HTTPS://CUBE.OCTA.SPACE](https://cube.octa.space)

NETWORK STATISTICS: [HTTPS://STATS.OCTA.SPACE](https://stats.octa.space)

GITHUB: [HTTPS://GITHUB.COM/OCTASPACE](https://github.com/octaspace)

DOCKER HUB: [HTTPS://HUB.DOCKER.COM/U/OCTASPACE/](https://hub.docker.com/u/octaspace/)

TWITTER: [HTTPS://TWITTER.COM/OCTA_SPACE](https://twitter.com/octa_space)

DISCORD: [HTTPS://DISCORD.GG/OCTASPACE](https://discord.gg/octaspace)

BITCOINTALK: [HTTPS://BITCOINTALK.ORG/INDEX-PHP?TOPIC=5224155.0](https://bitcointalk.org/index.php?topic=5224155.0)

MEDIUM: [HTTPS://MEDIUM.COM/@OCTA.SPACE.PROJECT](https://medium.com/@octa.space/project)



GET IN TOUCH

HELLO@OCTA.SPACE



DISCORD



TELEGRAM

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