

WHITEPAPER

ACCELERATING THE WEB3 WITH BARE METAL & HYBRID CLOUD

EXECUTIVE SUMMARY

The Web3 ecosystem, which includes decentralized applications, blockchain platforms, and crypto exchanges, is rapidly expanding.

However, Web3 developers face significant challenges in ensuring scalability, low-latency performance, and secure infrastructure.

This whitepaper explores how bare metal servers and hybrid cloud infrastructure offer the performance, flexibility, and reliability that Web3 companies need to accelerate their operations.

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UNDERSTANDING WEB3

Web3 represents the next evolution of the internet, characterized by decentralized applications (dApps) powered by blockchain technology.

Unlike Web2, which relies on centralized servers, Web3 allows for peer-to-peer interactions, creating a more transparent and secure digital environment.

Key Components of Web3

Blockchain networks

For example, Ethereum, Solana, and Polkadot compose the backbone of decentralized apps (dApps)

Decentralized Storage

Such as IPFS, Arweave, Filecoin are alternatives to centralized cloud storage

Smart Contracts

are self-executing contracts on the blockchain

NFTs & DeFi

Digital assets and decentralized finance platforms that need high-availability infrastructure

HOSTING THAT EMPOWERS THE WEB3 ECOSYSTEM

High-Performance Bare Metal Servers for Blockchain Nodes

Running a blockchain node requires high CPU processing power, fast NVMe storage, and large amounts of RAM to process transactions efficiently.

Decentralized Storage Hosting for NFT and dApps

NFT Marketplaces store NFT metadata on IPFS nodes to ensure content persistence. Similarly, Arweave-based dApps need storage for permanent data archiving.

Low-Latency Infrastructure for DeFi & Web3 Trading Platforms

Decentralized exchanges (DEXs) and DeFi protocols require ultra-low latency for trade execution, liquidity pools, and price updates.

GPU & AI-Powered Servers for Web3 Gaming & Metaverse

Web3 gaming and metaverse applications require high-performance GPU servers for rendering 3D environments and processing AI-driven interactions.

40G NETWORK

Build your next Web3 Node on our powerful, 40G-powered network infrastructure in selected data center locations around the globe.

BEST OF BOTH WORLDS: BARE-METAL & HYBRID CLOUD

BARE METAL

High Performance

Bare metal servers offer higher processing power, enabling faster transaction processing and reducing latency in decentralized applications.

Security

Bare metal servers reduce the risk of multi-tenant vulnerabilities seen in virtualized environments.

Customizability

Developers can configure the server to their exact specifications, optimizing for workload types.

HYBRID CLOUD

Flexibility

Developers can choose the best environment for their specific workloads—bare metal for performance and cloud for elasticity.

Cost Efficiency

Hybrid cloud enables cost optimization by balancing on-demand cloud resources with dedicated bare metal servers.

Scalability

Web3 applications require the ability to scale rapidly, which hybrid cloud environments allow.



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