

The Decentralized Cloud for the Future



Unlock scalable, resilient, and privacy-driven cloud operations—empowering real-time data insight and robust security to achieve energy and real estate efficiency goals.

In an era defined by privacy regulations, data breaches, and unplanned downtime, the demand for a secure, resilient, scalable cloud architecture that delivers power- and real estate-efficient computing is greater than ever.

Why Decentralization?

While traditional distributed public cloud architectures have provided the scalability that companies need, they are limited in three key areas – security, data availability/resiliency, and operational complexity.

Cachengo's decentralized [Rent-a-Node™](#) cloud infrastructure offers a radical improvement over traditional models. Powered by [Symbiote®](#) bare metal servers, this unique approach equips companies with the tools to own their data, reduce risk and operational expenses, and scale efficiently and with greater autonomy.

Strategic Advantage

Decentralized Benefit

Data Sovereignty

Locally stored and processed data aligns with corporate security goals and minimizes breach risks.

Fault Tolerance

No single point of failure—individual Symbiote® bare metal servers can fail without disruption to data accessibility.

Edge-Optimized Efficiency & Scalability

Real-time processing near the data source reduces latency and bandwidth consumption, with the ability to easily scale to thousands of Symbiote® bare metal servers.

Deploy Cloud Resources Quickly and Minimize OPEX

Deploy new compute and storage resources in existing real-estate resources, with industry-best power, cooling, and space efficiency.



Decentralize your cloud.

Decentralized Cloud

Match Architecture to Mission

Implementing Cachengo's decentralized Rent-a-Node™ cloud architecture helps CTOs, CISOs, and Heads of Infrastructure advance security, agility, and achieve operational efficiency goals, all without the limitations of legacy centralized cloud models. Examples include:

Healthcare Providers & Remote Clinics

Challenge: Sensitive patient data must comply with strict privacy regulations (e.g., HIPAA, GDPR), while remote clinics often suffer from unreliable connectivity and limited infrastructure.

How Cachengo® Helps:

- Data sovereignty ensures patient records are stored and processed locally.
- Fault tolerance allows clinics to operate independently—even during network outages.
- Edge-optimized compute enables real-time diagnostics and AI-assisted imaging without sending data to centralized servers.

Customer Benefit: Improved patient care, reduced latency in diagnostics, and full compliance with privacy laws.

Smart Logistics & Fleet Operations

Challenge: Real-time tracking, predictive maintenance, and route optimization require low-latency data processing across thousands of moving assets.

How Cachengo® Helps:

- Symbiote® bare metal servers deployed in vehicles or regional hubs process data locally.
- Scalable architecture supports thousands of nodes with minimal overhead.
- Energy-efficient compute reduces power draw in mobile environments.

Customer Benefit: Faster decision-making, reduced fuel consumption, and lower operational costs.

Smart Cities & Urban Infrastructure

Challenge: Managing traffic systems, environmental sensors, and public safety networks demands resilient, secure, and scalable edge computing.

How Cachengo® Helps:

- Decentralized nodes placed across city infrastructure reduce latency and bandwidth usage.
- No single point of failure ensures uninterrupted services like traffic lights and emergency alerts.
- Real estate efficiency allows deployment in constrained urban environments.

Customer Benefit: Enhanced public safety, better traffic flow, and reduced infrastructure costs.