



# ENLIVE CLOUD Summary

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# A Problem Not Solved

In 2018 We had these Problems:

- Datacenters use too much power
- Datacenters produce too much heat
- Datacenters cost too much and may not gain ROI

Today We have these Problems:

- AI Datacenters use too much power and may drive up electricity costs for surrounding communities
- AI Datacenters produce too much heat and use too much water
- AI Datacenters cost too much and may not gain ROI



# Our Solution

## Distributed Cloud

- Minimizes Resource Placement within Datacenters using less resources
- Moves excess work to edge computers
- Pushes minimal power usage to the edge supported by clients and users
- Removes the limit on usage growth without increasing costs
- Lowers the costs of deployment
- Lowers the costs of security
- Lowers the usage of power and minimizes heat production



# ENLIVE Distributed Cloud

## Our Initial Build – Which is easily modified for Specific Compliance

*The Central computer* is a HPE Server dual chip with 24 threads and 48 Cores. It's the main processor and data endpoint, which run on Rocky 10.1 OS, Flash storage for hot data, ZFS for cold data, 2 firewalls, high thru-put tuning, Fail2ban intrusion prevention, Open Source Tailscale handling distributed node infrastructure with Headplane monitoring, eBPF Extended Berkley Packet Filtering and reporting.

*The Edge Node* is a Mini Server PC with 4 threads and 8 cores running Ubuntu 24.04 Lts on a 500GB dedicated SSD and Dedicated Secure Docker 1TB SSD volumes and data is encrypted with LUKS v2.

The Central Computer communicates over a Mesh VPN described as a LAN at-a-distance, designed to be **INFINITELY EXPANDABLE**. It is a network of computers controlled by a central computer with computing, processing and storage at the center and on the edge. It is Internet-of-Things as a private cloud, but with the processing power and electricity usage of a laptop. Placement can vary across a variety of facilities.



# ENLIVE CLOUD Solution

## Our Central Computer

ENLIVE  
CLOUD  
CONTROL



- HPE Gen11 Server
- 2x - Intel Processors
- Dodeca-core - 12 Cores /24 Threads
- Base Frequency - 2.4 GHz
- Max Turbo Frequency - 4.1 GHz
- PCI Express Lanes - 80 per processor
- 2x - Micron 32GB DDR5 RAM
- Rated Speed - 5600 MT/s
- Operational Speed - 4400 MT/s
- ECC Supported - Error correction, protects against bitflip / cosmic-rays
- Buffered Modules - Places a register on the RAM for enhanced stability and integrity
- Expandability - 16 total slots, two in use, 14 available
- x3 - HPE 1.2TB EG001200JWJNK
- SAS3 Speed - 12 Gigabits
- Small Form Factor - SFF 2.5in
- Spindle Speed - 10000 RPM



# ENLIVE CLOUD Solution

## Our Edge Nodes

ENLIVE  
Distributed  
Power



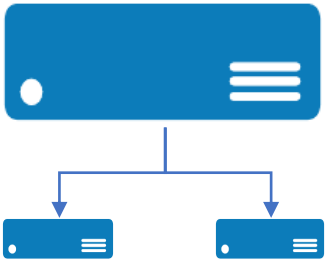
- CPU Speed - 2.1 GHz up to 3.7 GHz
- Cores 4, Threads 8
- Cache - 16 MB DDR4 2400 MHz
- Integrated Graphics Coprocessor - Graphics 8 Cores 1200MHz
- Memory - 16 GB RAM
- Storage 1 x 512GB PCIe SSD
- Storage 1 x TB SSD PCI 4.0 NVMe M.2 up to 6000MB/s
- Dual RJ45 LAN



# ENLIVE CLOUD Solution

## Total System Resources To Date

ENLIVE  
Distributed  
Power



- 4 Chipsets
- CPU Speed 8.1 GHz
- 32 Cores, 64 Threads
- Memory - 96 GB RAM
- Storage - 5 TB PCIe SSD



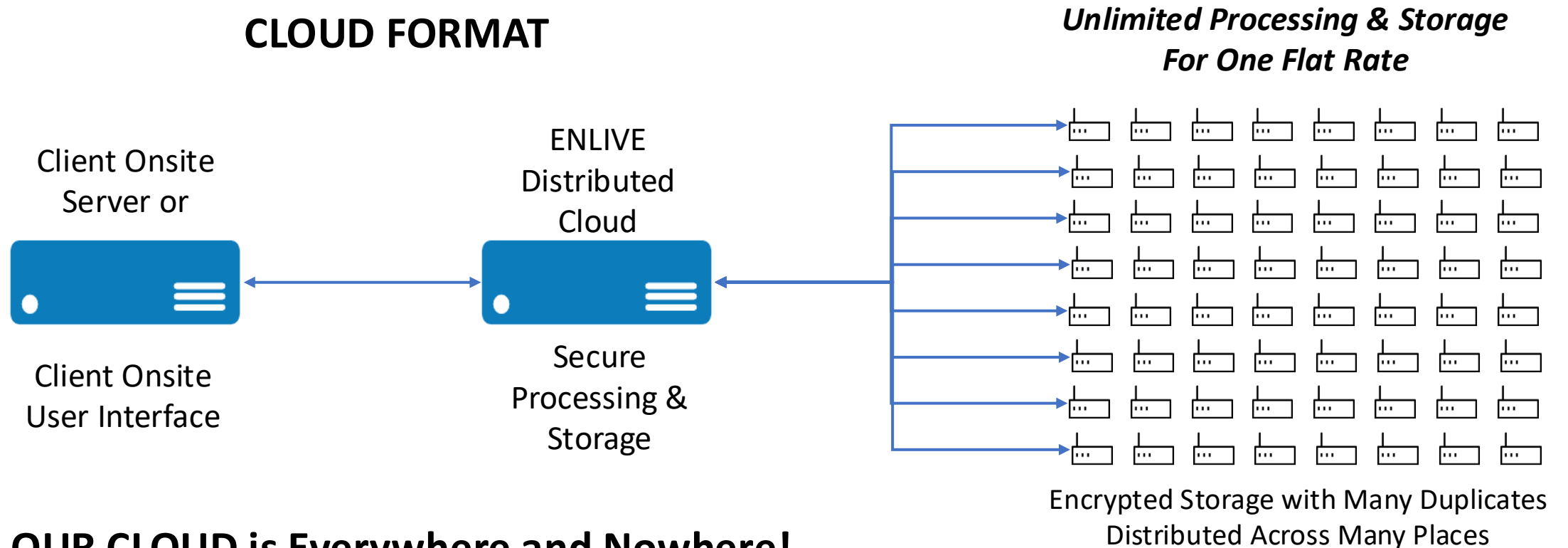
# Distribution Model

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# Distributed Cloud Computing

## CLOUD FORMAT



**OUR CLOUD is Everywhere and Nowhere!**



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# ENLIVE CLOUD Opportunity

Our Cloud can be applied and accessed in a hybrid environment or via online interfaces.

## Use Cases:

- Web hosting
- App Development
- Data Mining
- Data Modeling
- Rendering
- Scenario Processing
- Heavy Workloads
- Data Rich Service Platforms

## Clients:

- Small Business
- Research
- Weather Prediction
- Film Effects
- VR-Game Production
- Government
- Corporate Real-time Analytics



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