





# Our Philosophy and Products

## Empower Infrastructure with Simple



# Architecture is **Open** as Redhat / OpEx is **Low** as Nutanix



Competitive Products:

Redhat Openshift, OpenStack, Ceph



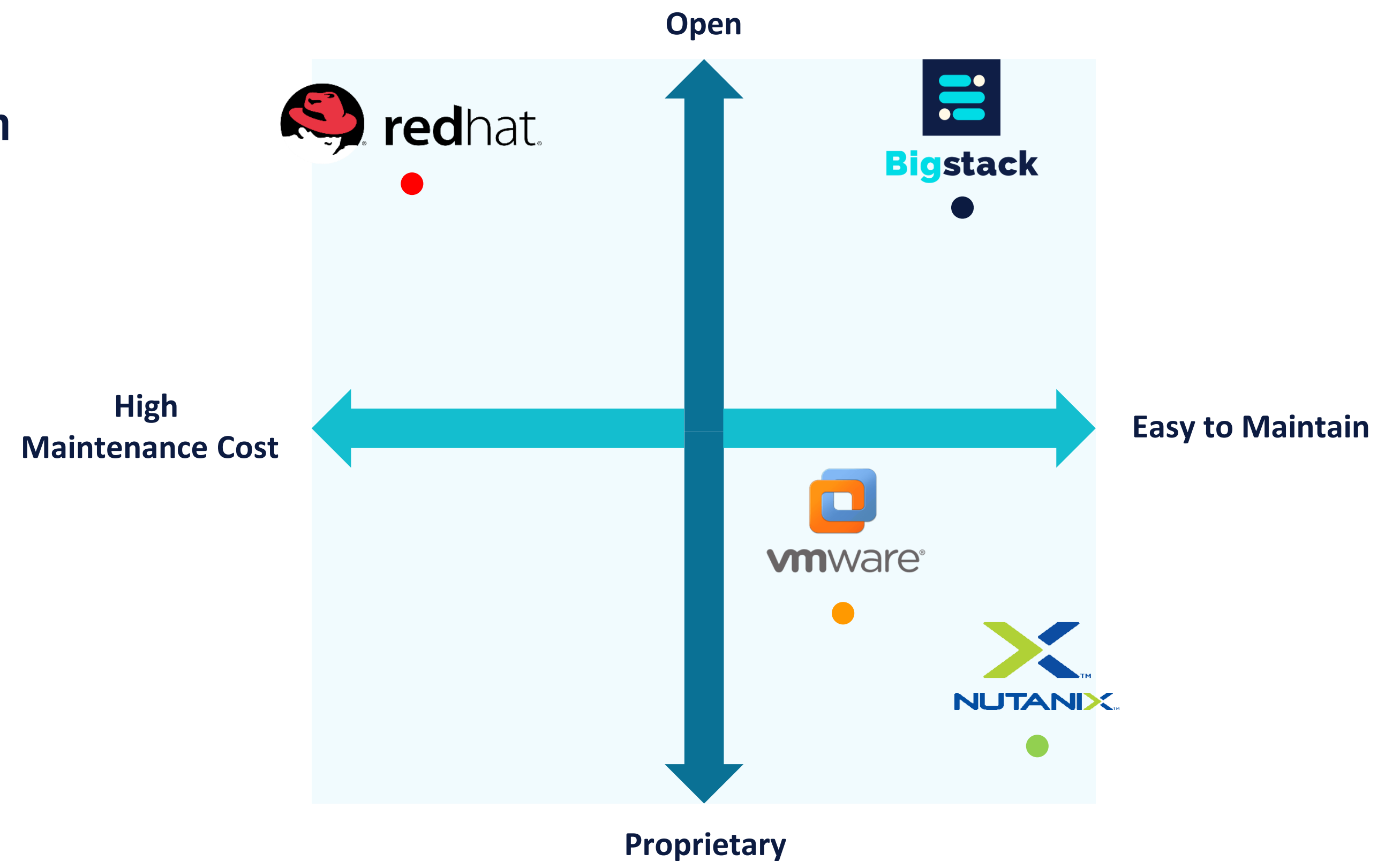
Competitive Products:

VCF, vSphere, vSAN, Tanzu



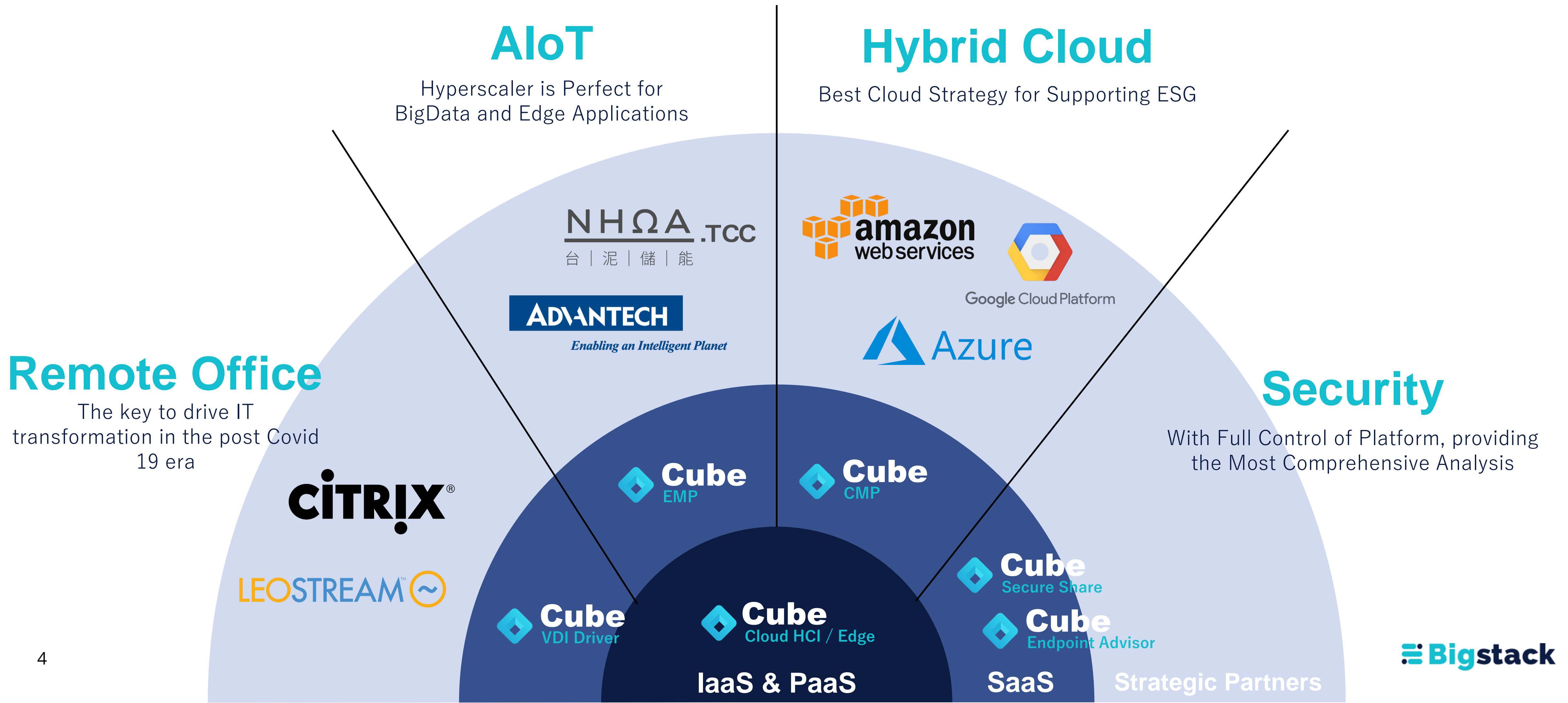
Competitive Products:

Nutanix Core, PrismPro, Files





# Cloud Computing **Total Solution** Provider





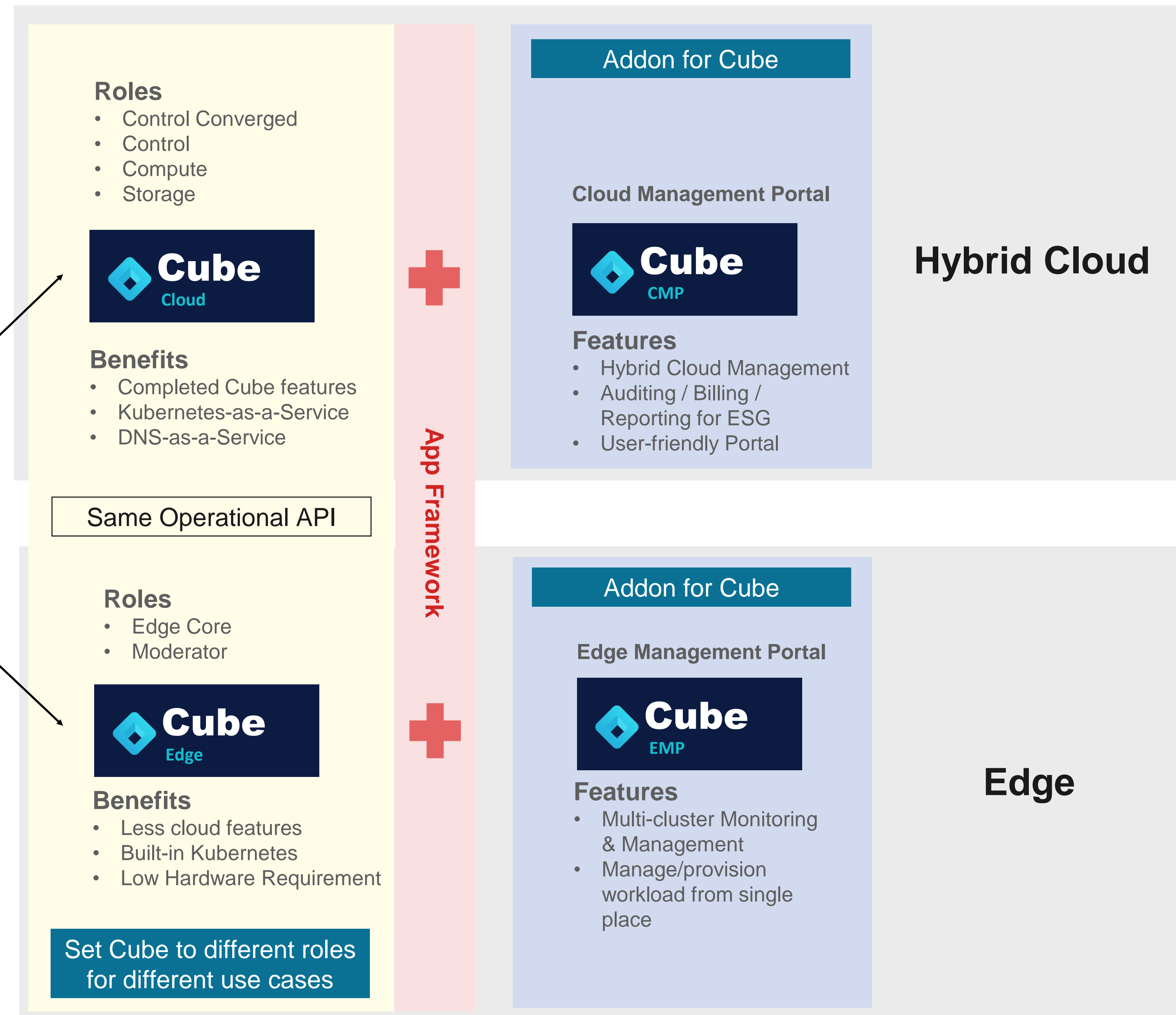
## What is CubeOS?

- Cloud Computing Platform
- Hyperconverged Infrastructure
- Software-defined Datacenter
- Single operation system



## Benefits

- Easy to Design
- Easy to Deploy
- Easy to Operate
- Easy to Maintain
- Easy to Afford

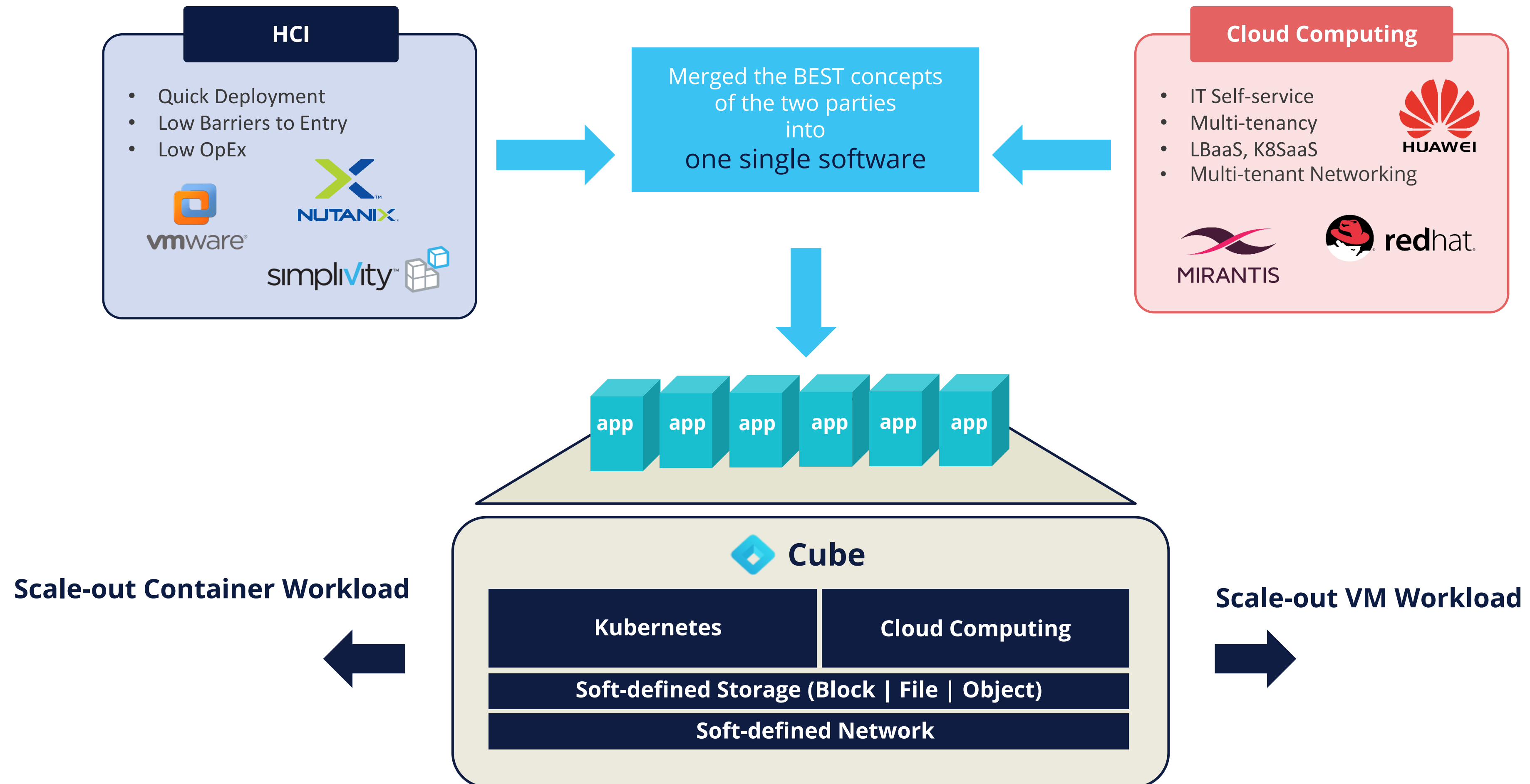






# Cube Cloud HCI / Edge

## Merged The Best of Two Parties








A complete set  
of solutions

 **CubeOS**


Container



Software-defined  
networking




Software-defined  
storage



Centralized  
management  
center

**vCenter**

Virtualization  
software



	Bigstack Cube	VMware
Pricing Model	Charge by Node	Charge by CPU / OS



CUBE | Portal

Create ▾ B ▾

Projects

PROJ001  
Admin ▾

Resources

Instances

Kubernetes

Volumes

Shares

Images

Networking

Management

Settings

[Back to Instances](#)

Create an Instance  
Each Instance you create is a new server you can use

CHOOSE AN IMAGE ?

Distributions

Snapshots

Backups

  
Ubuntu

22.04(LTS) x64 ▾

  
CentOS

Select Version ▾

Default login user: ubuntu

Lean, fast and powerful, Ubuntu Server delivers services reliably, and you have the option to get support and Landscape from Canonical.

CUBE | Portal

Create ▾ B ▾

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SELECT AN INSTANCE TYPE

Basic

CPU-optimized

Memory-optimized

Storage-optimized

High performance virtual machines with a good balance of memory and dedicated hyper-threads from best in class processors. A great choice for a wide range of mainstream, production workloads, like web app hosting, e-commerce sites, medium-sized databases, and enterprise applications.

INSTANCE SIZE	VCPU	MEMORY (GB)	ROOT DISK (GB)
<input checked="" type="radio"/> Micro	1	1	40
<input type="radio"/> Small	1	2	60
<input type="radio"/> Medium	2	4	80
<input type="radio"/> Large	4	8	160
<input type="radio"/> Extra Large	6	16	320
<input type="radio"/> Ultra	8	32	640

i

The size of root disk would be expanded automatically to meet the requirement of the selected base image.

template

specification

startup





PROJ001  
Admin

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Create a Cluster

SELECT VERSION OF KUBERNETES

Select version of Kubernetes. The newest available version is selected.

v1.22.10-rancher1-1

SET UP NETWORK

All resources created will be in the same network. They can communicate with each other.

private-k8s

CUBE | Portal

Projects

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Settings

1

Worker Node Pool 1

Pool name

worker

Machine type (instance)

Medium 2 vCPUs / 4GB RAM / 80GB Disk

Node count

1

Add Another Node Pool

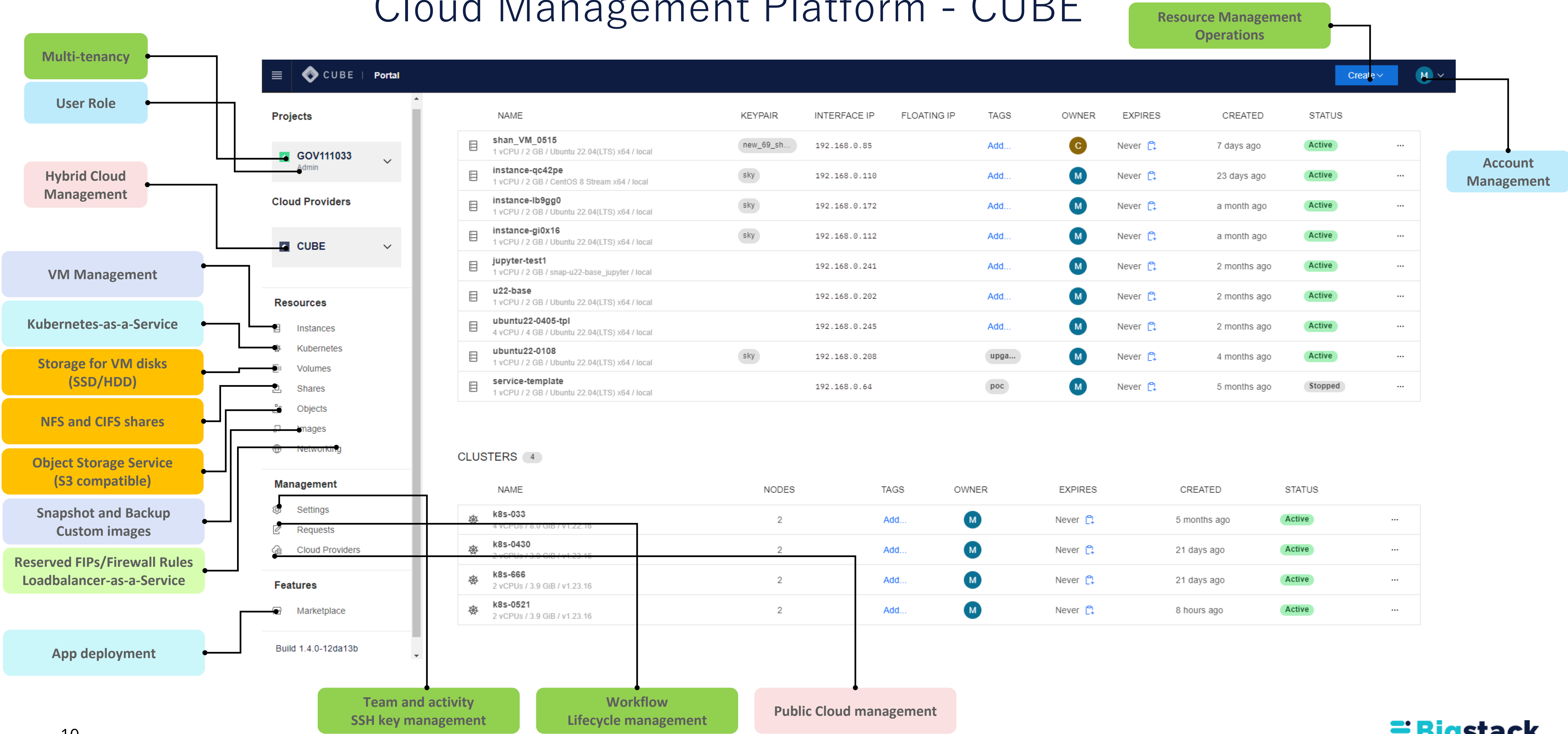
clusters

Set up pods

K8S starts



# Cloud Management Platform - CUBE





## Execution And Business Model

Build Local AWS-like Environment with HCI Ready Nodes



## Competitors



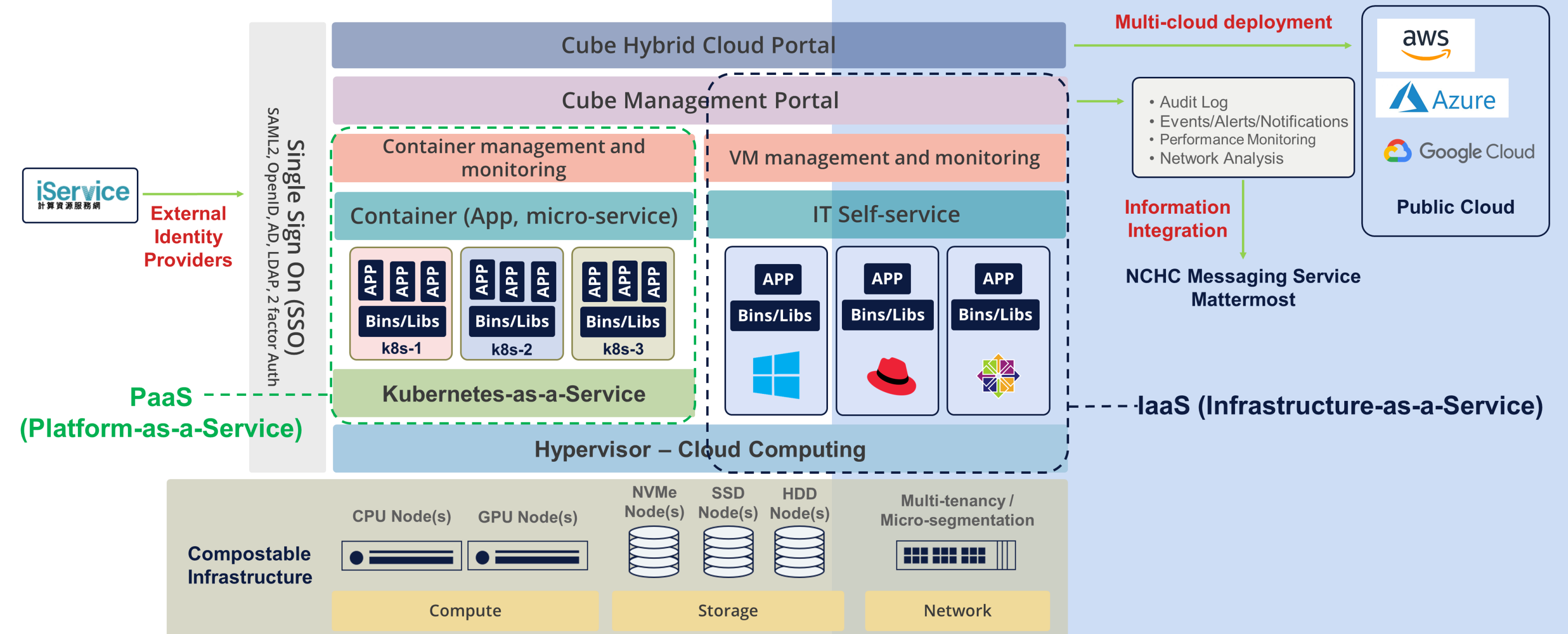
Bigstack



redhat

## Why We Won

- Intuitive Self-service Experience
- Monitor from Hardware to Cloud Platform
- Save TCO up to 65%
- Strong Team Support





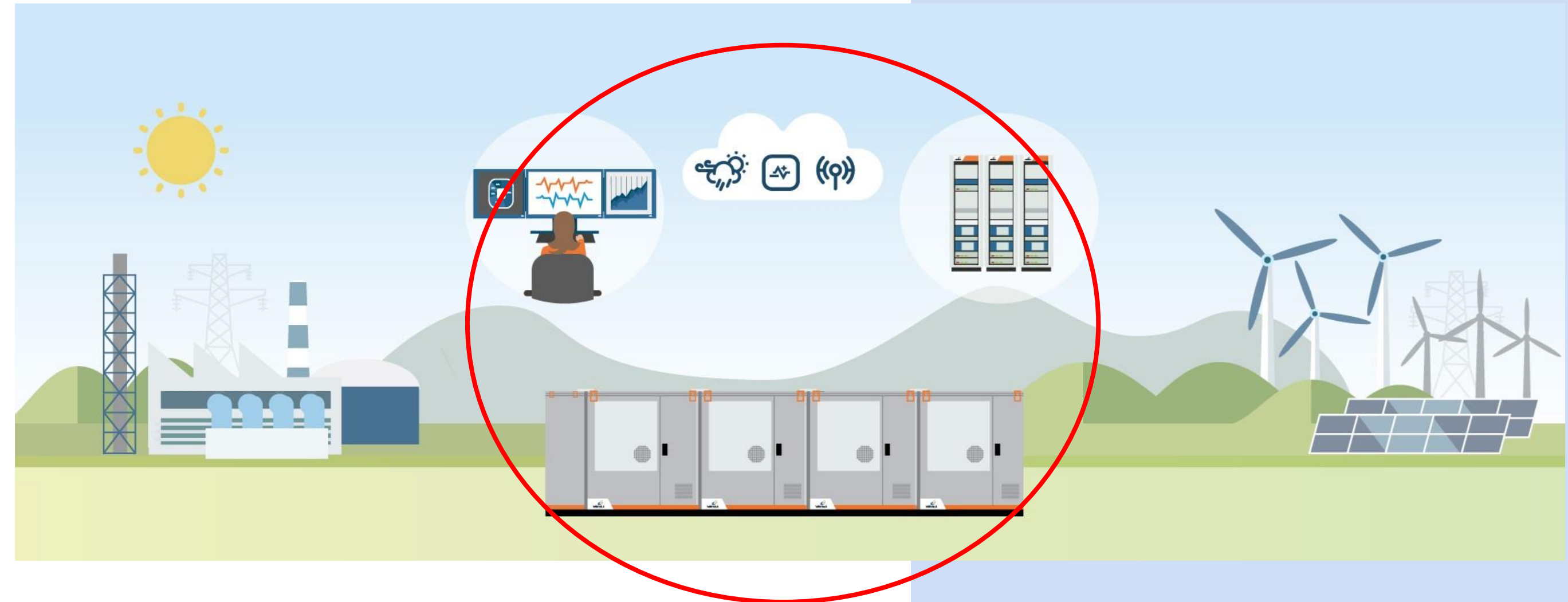


## Competitors

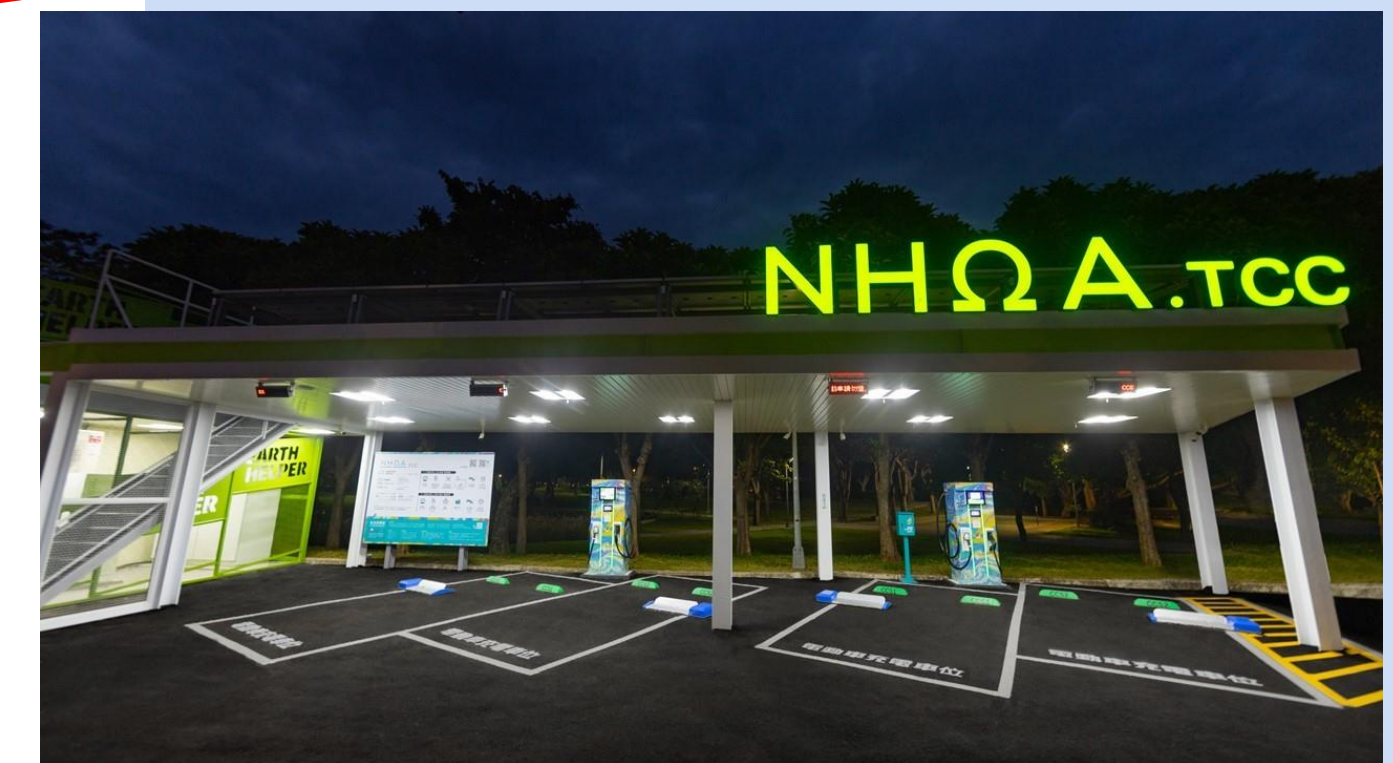


## Why We Won Bigstack

- Support Minimum 3 Nodes
- Low Spec. HW compatible
- Single Portal Management
- High Availability Architecture
- Affordable Cost



Energy Storage System



Charging station



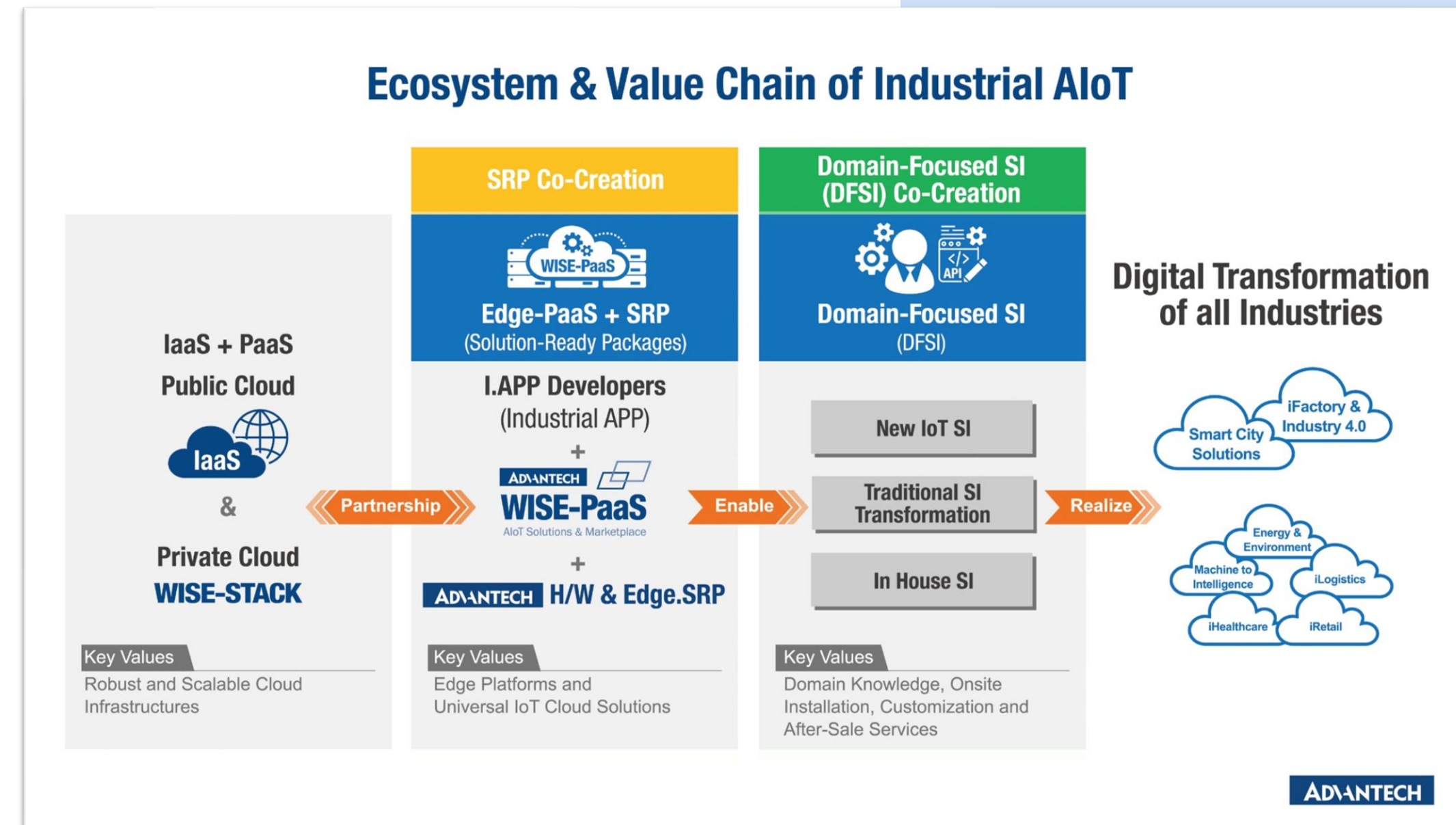


## Competitors



## Why We Won

- Hardware Aware Solution Helps Advantech Components Integration
- Ready Node Deployment
- Support Minimum 3 Nodes
- Easy to Install and Maintain



**Accelerate Your Application In This Data Driven Era**

WISE-STACK is Advantech's AIoT private total cloud solution designed to reduce data center complexity and cost and based on WISE-PaaS software, which provides multiple AI application framework services from data collection and analysis to visual presentation.

The pre-configured framework allows developers to rapidly develop real-time applications to fit any business scenario.

[Learn more about WISE-PaaS »](#)

**Flexible IaaS**

Based on Kubernetes and Bigstack CubeOS, it supports not only virtualization but also containerization, IaaS saves more resources and squeezes more performance for DevSecOps.

**Ready-to-use PaaS service**

**Various vertical cloud apps**

**Your Data Is On-Premise And In Good Hands**

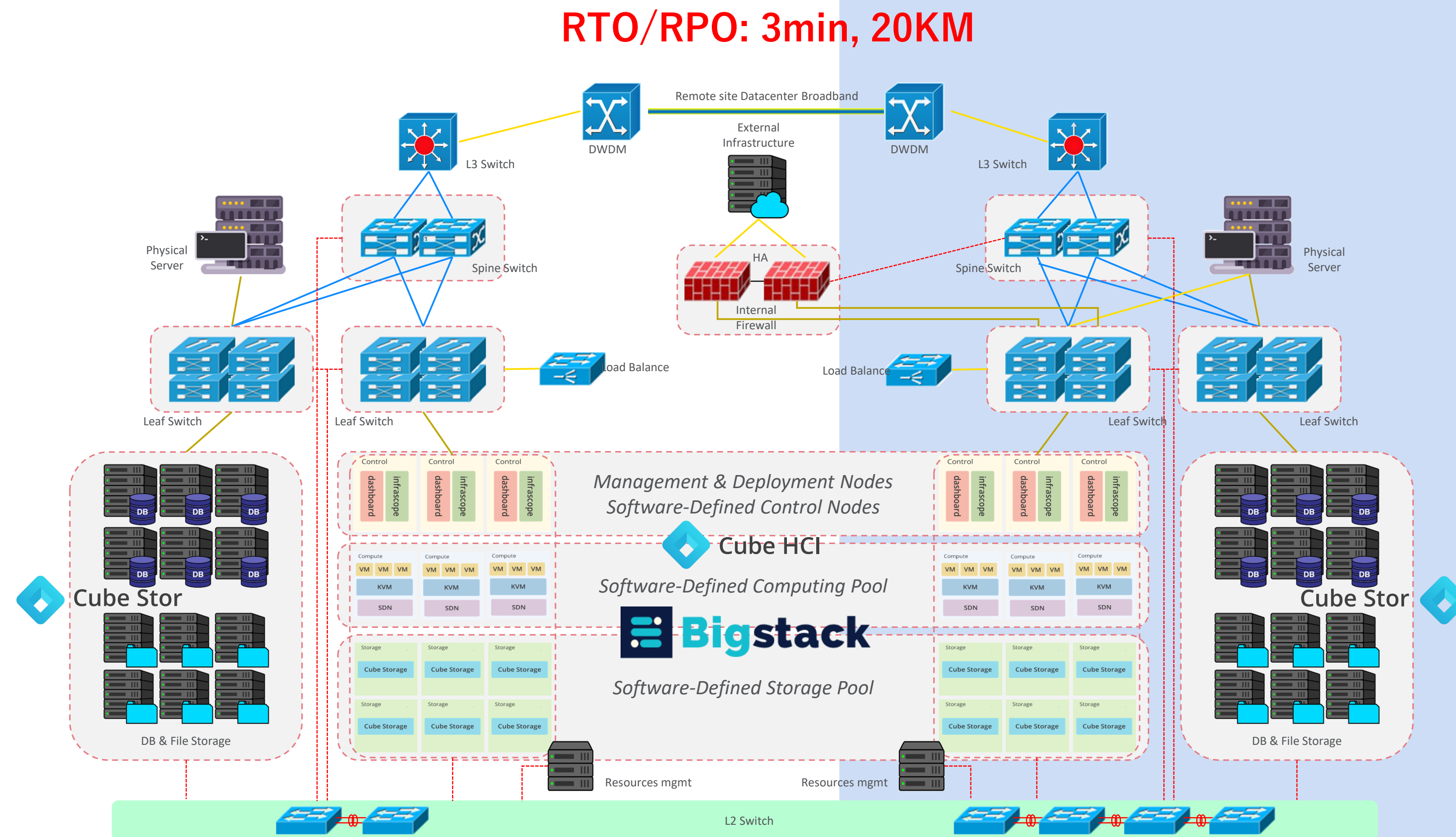


## Competitors



## Why We Won

- Gained High Flavor in Design Phase
- Good Disaster Recovery Mechanism
- High Cost Benefit Ratio







## Competitors



## Why We Won

- Good Match of Supermicro Cloud Strategy
- Pure Software Solution
- Ready Node Deployment
- Easy to Install and Maintain

### Server Features

	[Converge / Control / Computing] Node			Storage Node
	CloudDC	Ultra	Twin	A+ Storage
CPU	Up to 64 cores	Up to 128 cores	Up to 512 cores	Up to 128 cores
RAM	Up to 4TB	Up to 8TB	Up to 16TB	Up to 4TB
Storage Bay	1U - 10x HS 2.5" 2U - 12x HS 3.5"	1U - 4x HS 3.5" or 12x HS 2.5" 2U - 12x HS 3.5" or 24x HS 2.5"	24x HS 2.5"	24x HS U.2 NVMe
NIC	Dual AIOM slots	Dual 10GBase-T	4 SIOM Network Cards	Dual 10GBase-T
Platform	Single Processor	Dual Processors	Dual Processors	Dual Processors

### Switch Specification

	Management Switches	
NIC	10 GBase-T (48*10GbT, 4*40GE)	25 GE (48*25GbT, 6*100GE)
SKU Name	SSE-X3348TR	SSE-F3548SR

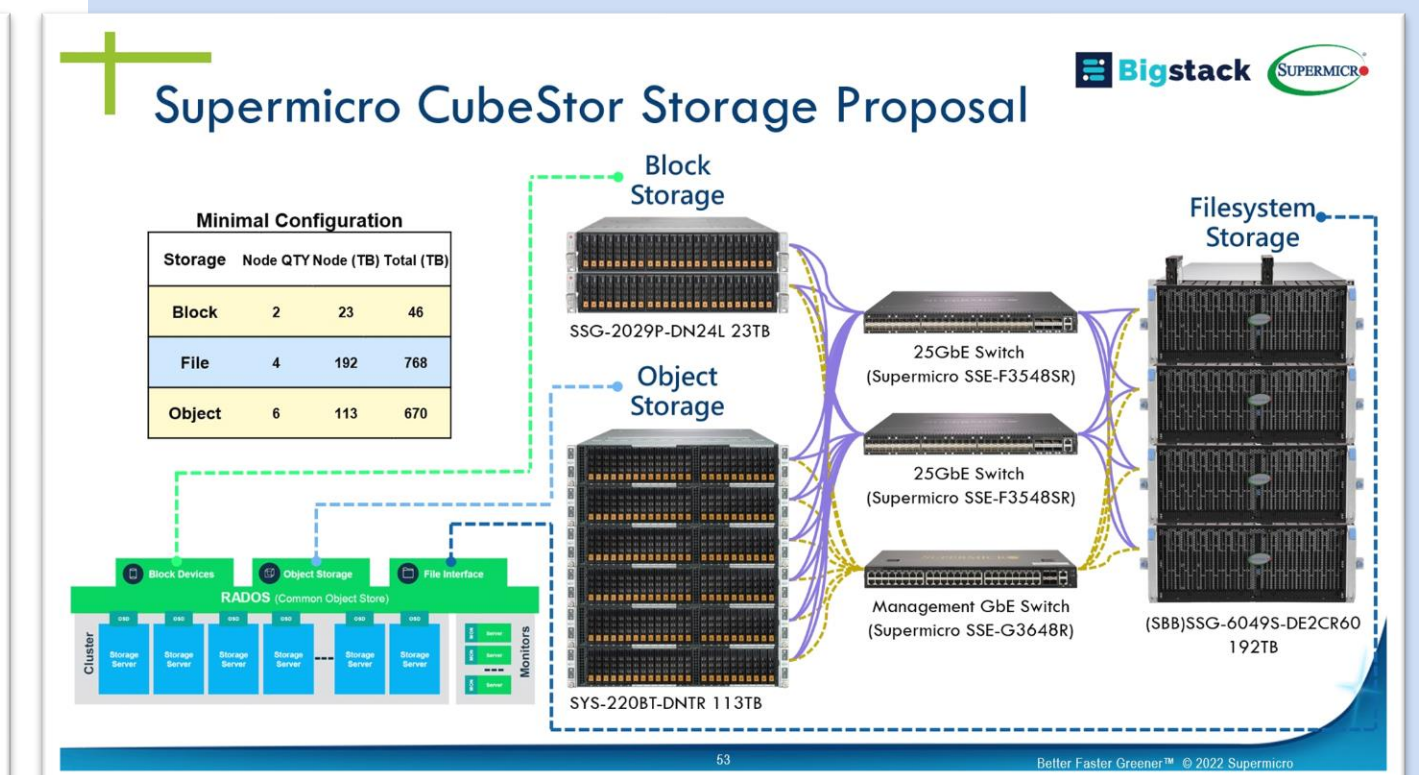
### Hardware Features:

- AMD EPYC 7003 or 7002 Series Processor
- Optimal for performance, flexibility, scalability
- Large memory footprint
- NVMe support
- Vast networking and expansion possibilities with Ultra Riser card design
- High availability

**SUPERMICRO**

Supermicro (Nasdaq: SMCI), the leading innovator in high-performance, high-efficiency server and storage technology is a premier provider of advanced server Building Block Solutions® for Enterprise Data Center, Cloud Computing, Artificial Intelligence, and Edge Computing Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green®" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

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### Cost-Effective SDS Solution

**Bigstack**

**CubeStor**, a simplified cost-effective scalable software-defined storage solution for files, blocks, and objects

- Hybrid Solution with multi-pool architecture
- Simplified Deployment & Management of Ceph
- Positioned for Enterprise Cloud Transformation

**IOP per GB**  
(Provisioned IOP)

**Throughput**  
(MB/s)

**Capacity**  
(Cost Per GB)

RADOS (Common Object Store)

Cluster: Storage Server, Storage Server, Storage Server, Storage Server, Storage Server, Storage Server

Monitors





Thanks for listening

[www.bigstack.co](http://www.bigstack.co)