HI GIO CLOUD

powered by FPT & IIJ

- SERVICE PORTFOLIO-

Who we are

Our Vision

The global standard qualified cloud platform with the local touch for all enterprises in Vietnam

Our Mission

Enhance business productivity and flexibility with turn-key cloud technology to go one step further

HI GIO CLOUD
powered by FPT & IIJ

Trust IT, Drive IT.

2017
Service Launch

The very first full-scale public cloud service in Vietnam, and the unique product of a powerful collaboration between two leading technology companies, **FPT Telecom and Internet Initiative Japan (IIJ),** for Vietnamese market based on advanced Japanese technology combined with FPT's international standard Data Centers system.
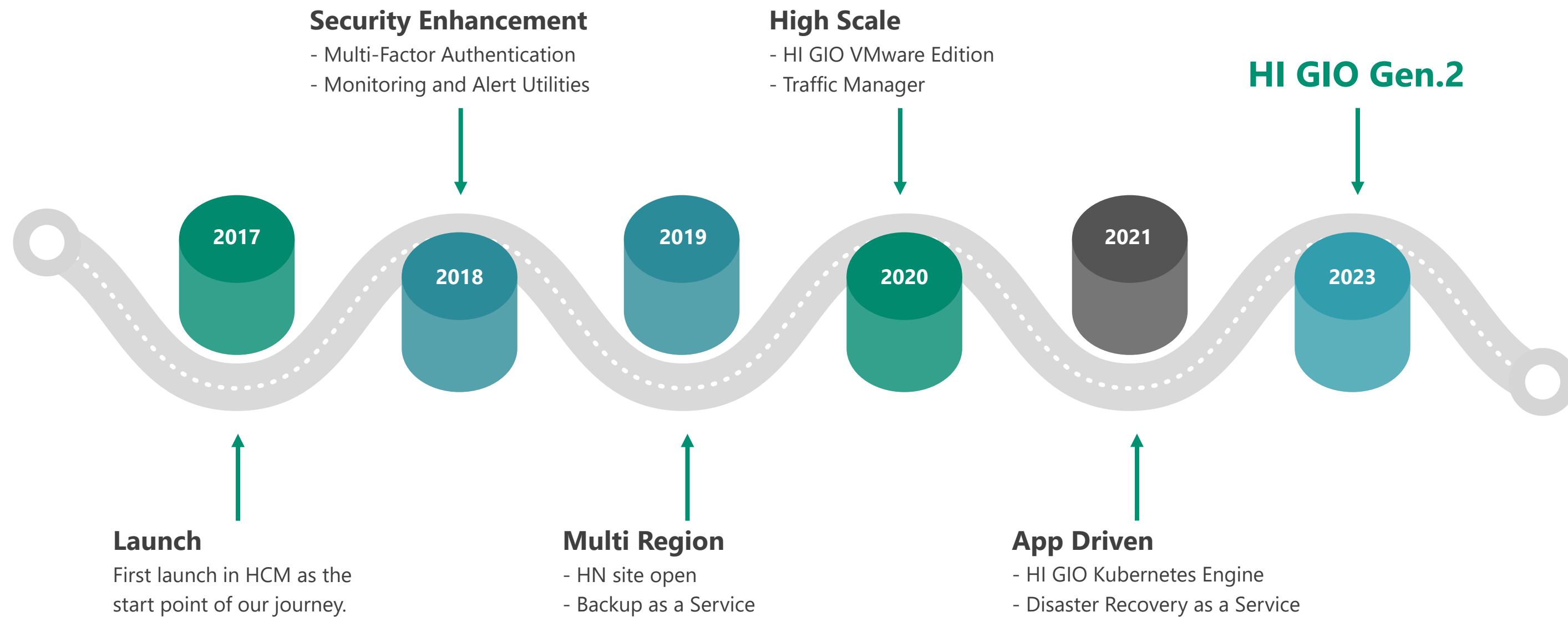
2023
Gen.2 has come

Comprehensively upgrading the cloud computing infrastructure to Enhance business productivity and flexibility with **turn-key cloud technology** to go one step further.

The miles we run

Never-ending enhancement and upgrading

The service platform is evolving continuously.
Catching up the latest technologies to provide solutions for customers on demand.

Security Enhancement
- Multi-Factor Authentication
- Monitoring and Alert Utilities

High Scale
- HI GIO VMware Edition
- Traffic Manager

HI GIO Gen.2

2017

2018

2019

2020

2021

2023

Launch
First launch in HCM as the start point of our journey.

Multi Region
- HN site open
- Backup as a Service

App Driven
- HI GIO Kubernetes Engine
- Disaster Recovery as a Service

Why choose us

03 Data Centers in Hanoi & Ho Chi Minh
meets ISO standards for design, construction & operation according to Vietnam & World Standards

24/7/365
support by locally made experts

15+ years experience of cloud service R&D globally

99.99%
guarantee at least 99,99% of UPTIME in SLAs

2000+
businesses in various fields (Finance, E-commerce, Retail, etc.)

100+
high-experienced technical experts (Japanese & Vietnamese)

10+
quality certification for cloud computing services ISO/ IEC 27017:2015 & security standards PCI DSS v3.2.1

Information Security Management System **ISO 27018** Certified

International Organization for Standardization **ISO 22301**

QUALITY MANAGEMENT SYSTEM **ISO 9001:2015**

INFORMATION SECURITY MANAGEMENT SYSTEM **ISO 27001:2013**

CLOUD INFORMATION SECURITY CONTROLS **ISO 27017:2015**

ANSI/TIA-942:2017 FACILITIES **RATED 3** TIA-942.ORG

PCI DSS COMPLIANT

TIER III DESIGN FPT Telecom EPZ Data Center October 4, 2013 UPTIME INSTITUTE CERTIFIED

TCVN 11930:2017

Why choose us

Comprehensive Security Capabilities
Commit a set of policies, controls, procedures, and technologies to protect cloud-based systems, data, and infrastructure.

Scalability based on PAYG model
Efficiently scale the business up or down, on-demand, based on the requirements, at any given time. Create and delete each item as you need. We only bill you for your actual usage.

Advanced Customization
Customized cloud infrastructures and services to meet the businesses' needs best by providing the ability to automatically manage and operate cloud resources through Restful API for free.

Stability
Stabilize cloud server monitoring, replication, and security, ensuring minimal outages & optimal performance & consolidating disaster recovery infrastructure.

High Availability
HI GIO Cloud directly connects to the powerful backbone of FPT Telecom, which has up to 80Gbps and 100Gbps Ethernet speed of internal connection, to meet the high demand of customers.

High-speed Performance
Provides communication between the cloud service and the local network environment through private connection standards: VPN, MPLS, and X-connect. In addition, flexible storage, with IOPS on NVMe hard drive platform (much faster than SSD) to meet customer requirements when running Big Data, AI,...

Highlights of market captive

A wide range of industry
HI GIO is applauded from all industry segment such as finance, e-commerce, education, retail, manufacturer, and more.

Overwhelming Growth

Number of contracts grows in over 30% YoY

From the first day of service launch, we've been growing over 30% CAGR for last 5 years. The trend continues in 2023.

FamilyMart

TiKi

VIETABANK

Sendo

FPT Education

SABECO

MINISTOP

Song Han Tourist

MOMO mobile money

CJ OLIVENETWORKS

VietCredit

GS25

Customer's voice

Cloud migration changed our business productivity

Quick cross-border cloud migration
Original system was located in China. It just need only 1 months to do the cross-border cloud migration because of full spectrum of support by HI GIO professional service


Trouble-less operation in 24/7
Grocery store is essential social needs for everyone. Ministop has realized to provide 24/7 trouble-less operation with HI GIO cloud

MINISTOP VIETNAM (AEON GROUP)

It is one of big Japanese retail chain who rolling out their convenience store in Vietnam. Operating over 120 stores across the nation.

FPT HI GIO

VM VM VM VM VM

Managed FW

Internet VPN

Office

Factory

120+ Store
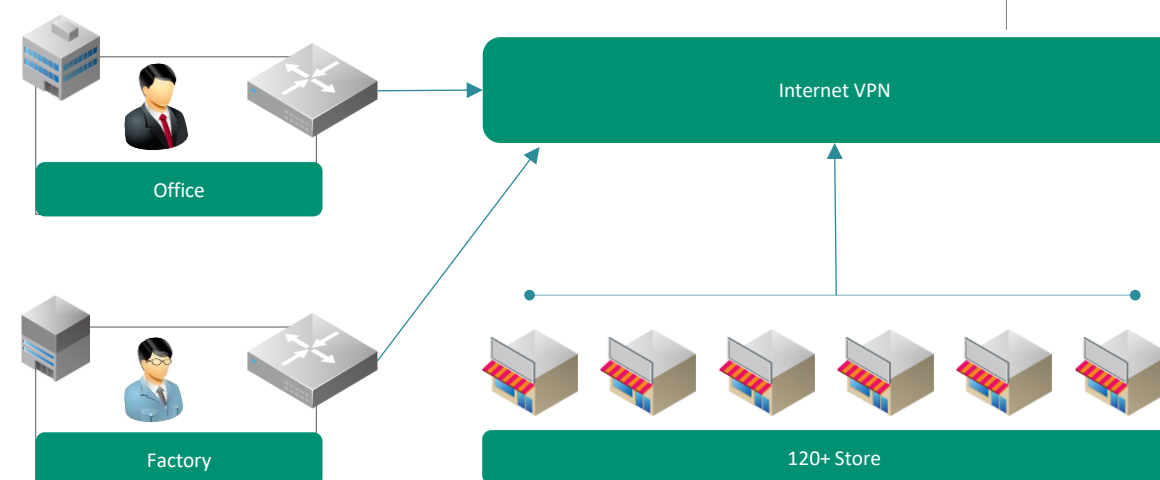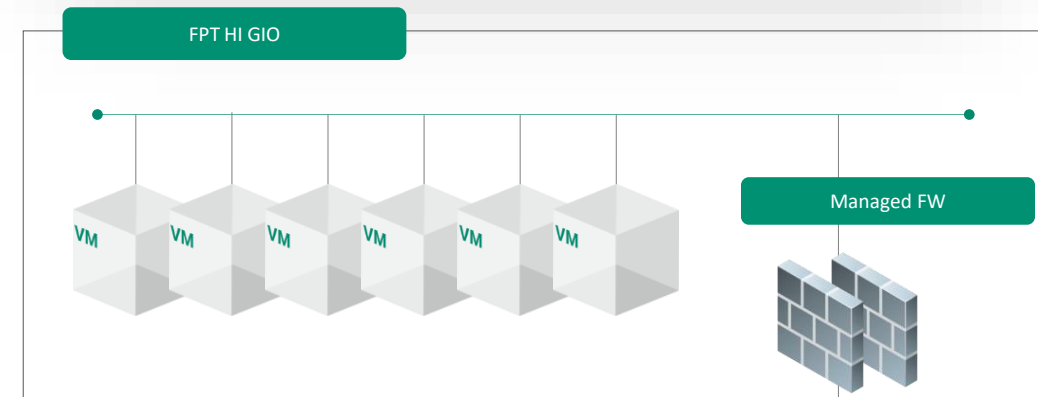
What we offer

HI GIO Public Cloud

HI GIO Private Cloud

HI GIO BaaS

HI GIO DRaaS
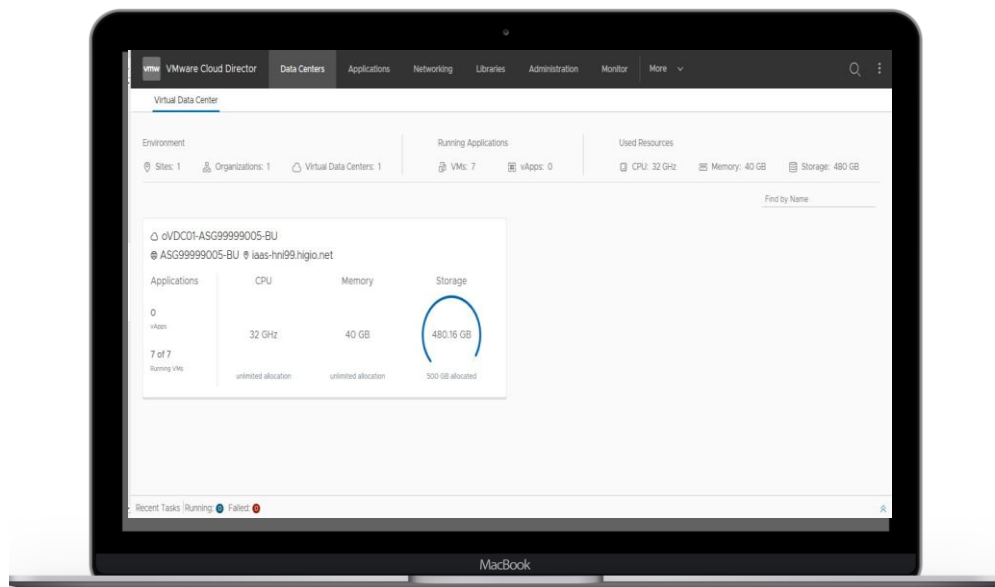

HI GIO Network & Security

HI GIO S3 Storage

HI GIO Kubernetes

HI GIO DBaaS
(coming soon)

Built To Go By Your Own

Offering you **the full flexibility** to create your own cloud platform by online HI GIO portal. Configure, manage, control and monitor all your preferable cloud resources.

Empower compute with NVIDIA GPU

GPU is the key accelerating performance
HI GIO Public and Private Cloud is fully adapted to NVIDIA GPU

Steps to go journey

Step 01

Select Public Compute or Private Cloud

Select the preferable choice, affordable flexible Public Compute or fully-dedicated Private Cloud.

Step 02

Select any from Storage & Backup Options

From a wide range of storage & Backup options, select necessary storage types and capacity attached to the Public and Private Cloud.
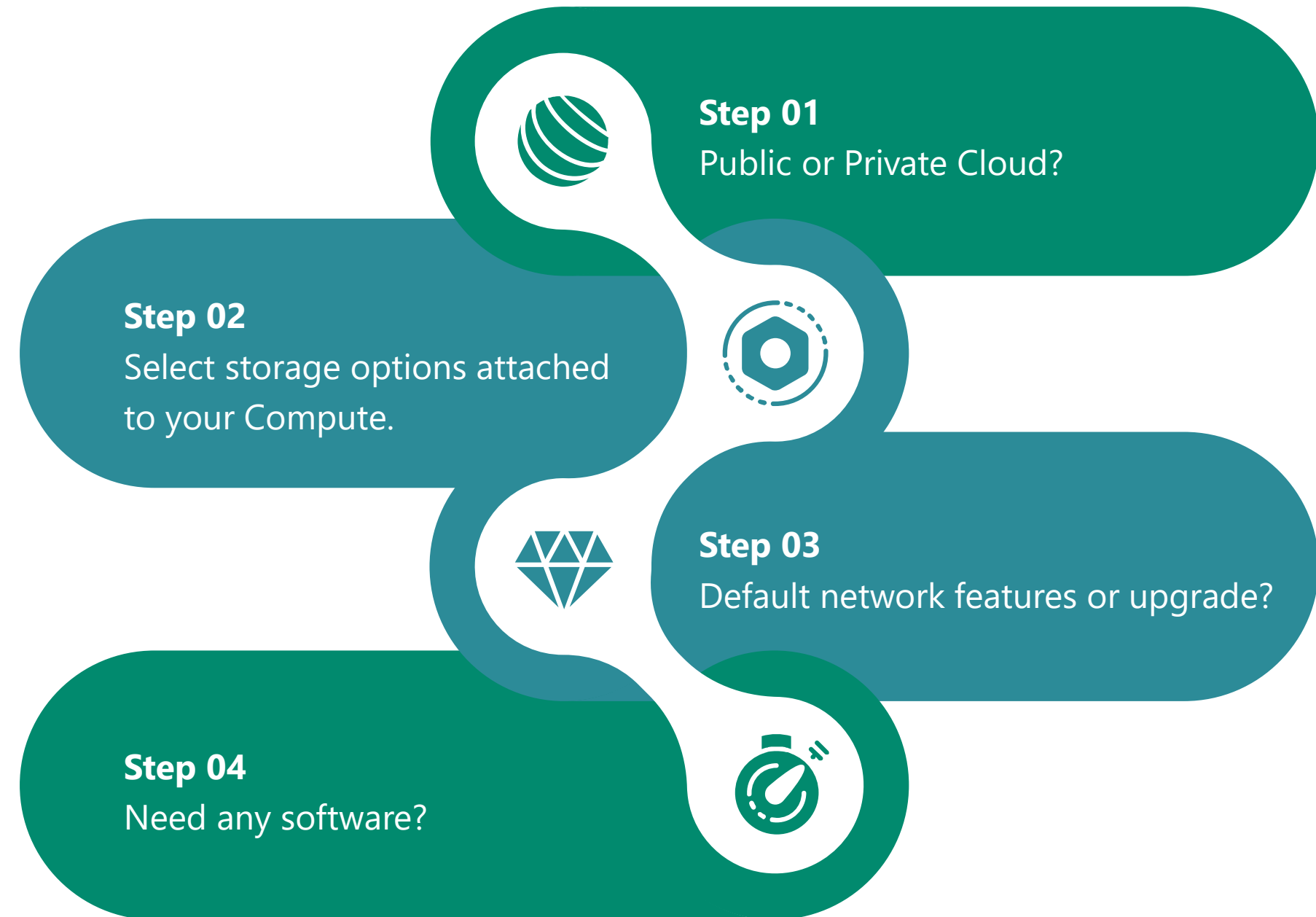
Step 03

Select necessary Network & Appliance options

Free inclusive network features for everyone. Or you'll upgrade performance and/or select additional network features.

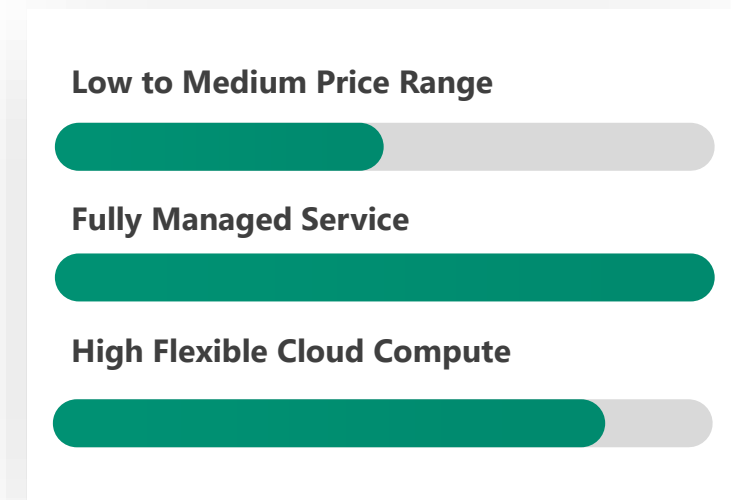**Step 04**

Select necessary software from Software options

Various software is ready for you to install onto VMs in your Public or Private Cloud Pool.

Step 01
Public or Private Cloud?

Step 02
Select storage options attached to your Compute.

Step 03
Default network features or upgrade?

Step 04
Need any software?

How we do

1

HI GIO Public Cloud

We provide **HI GIO Public Compute** for all enterprises needing a flexible and affordable cloud platform through free-hand designable services selected from on-demand instances, virtual storage, and network add-ins. We cover them all with a single service offer on a small or large scale.

Low to Medium Price Range

Fully Managed Service

High Flexible Cloud Compute

2

HI GIO Private Cloud

We provide **HI GIO Private Cloud** for large enterprises who need a fully dedicated cloud platform for compliance and governance by offering business reserved hosts that ensure their resources are not shared with other customers.

Low to Medium Price Range

Fully Managed Service

High Flexible Cloud Compute
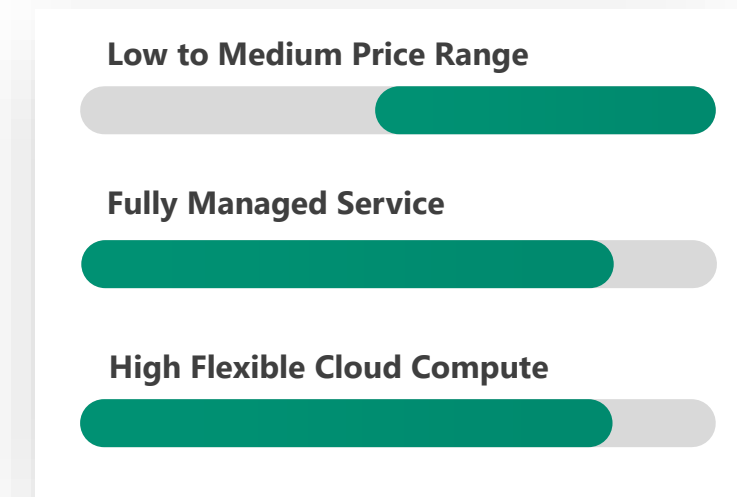
Everything is up to you
You can select affordable Public Compute or Private Cloud to individualise your own cloud

Cloud Consulting and Advisory
We offer you the Consulting and Advisory service to assist you to design, implement, and/or migrate your cloud environment

SLA (Service Level Agreement)
The commitment to keep your cloud available around the clock

99.99%

Step 01

Create the Public Compute Resource Pool

Create any amount of resource pool as you desired. You can change anytime after its start

Create the Private Compute Resource Pool

Select your own Private Cloud and Block Storage as much as you need. Your Private Compute pool is completely your own, and never be shared with another

Step 02

Create VPCs

Virtualizes compute, storage and network resources and makes them available to multiple VMs. We use network technologies such as encryption, tunneling, private IP addressing and virtual LANs (VLANs) to provide an isolated cloud environment

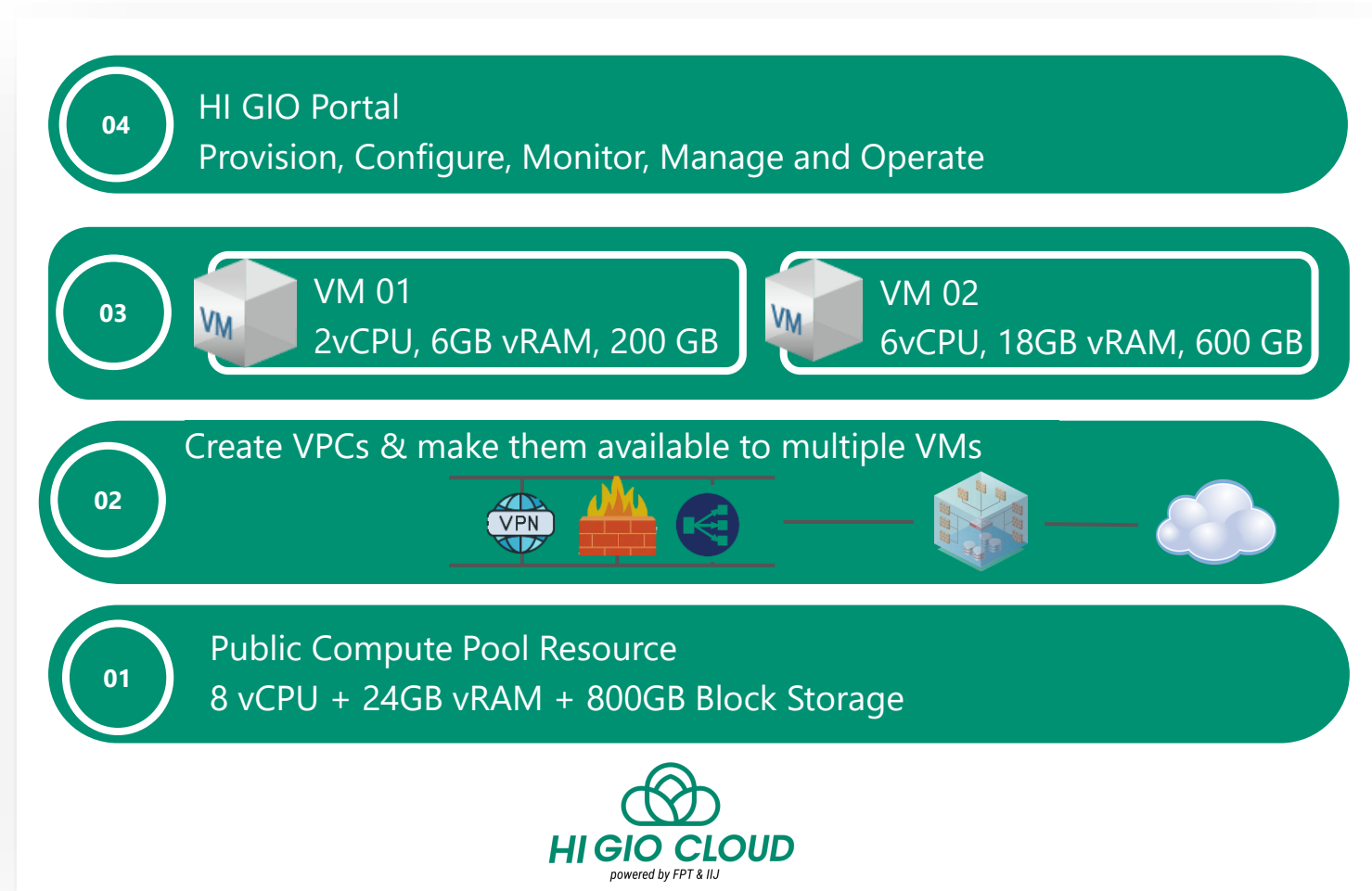## Step 03

Create VMs in the Pool

Provision preferable size of VMs in your pool. Many small servers? Or some big servers? It's completely depending on you. You can change or re-configure whenever you want at any time
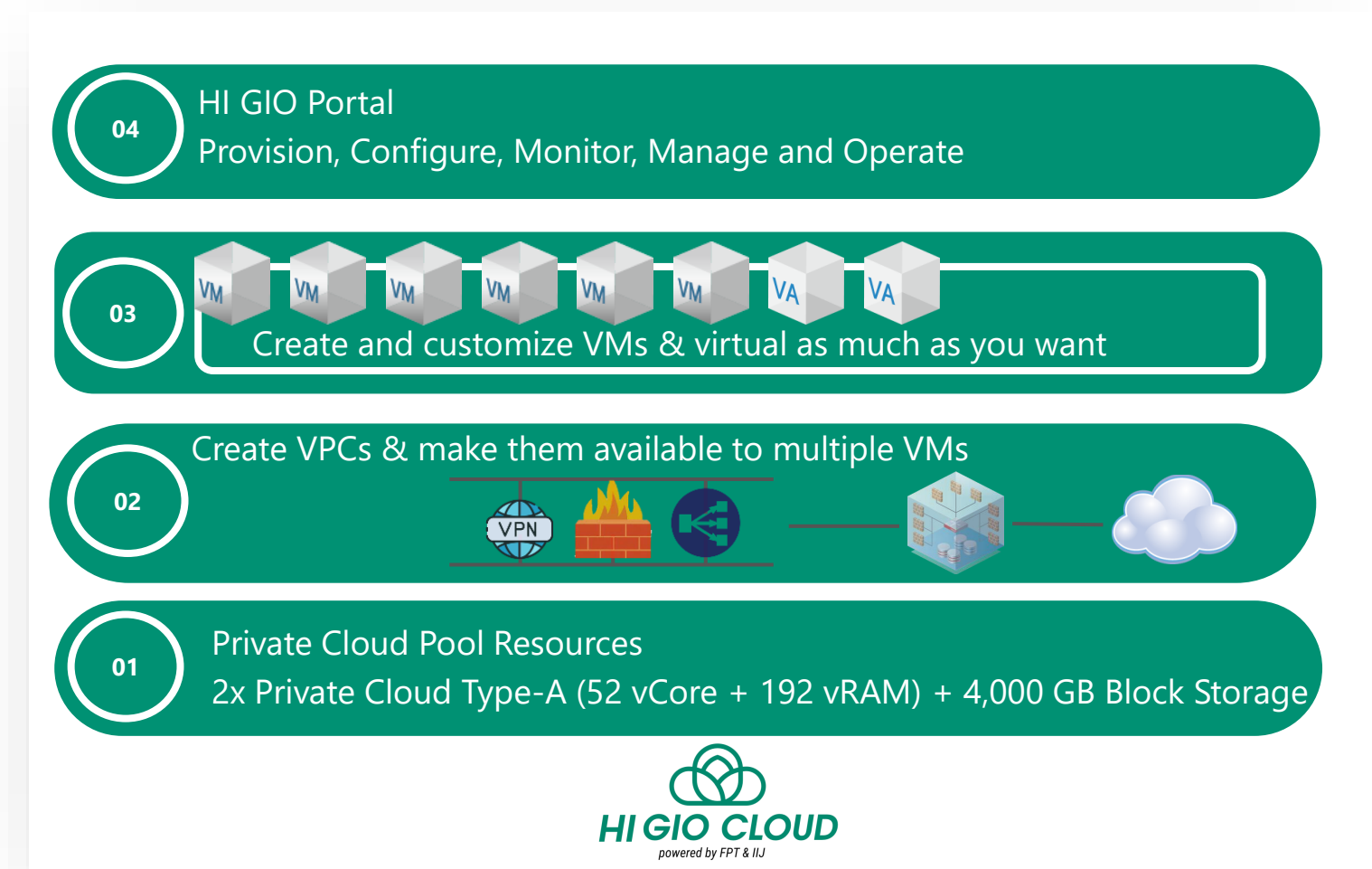
Step 04

Run your business application on top of VMs

Install your software or application onto your created VMs to run. You can monitor your VMs through the HI GIO Gen.2 Control Panel and re-configure VMs when you need

HI GIO PUBLIC CLOUD

04 HI GIO Portal
Provision, Configure, Monitor, Manage and Operate

03 VM 01
2vCPU, 6GB vRAM, 200 GB

VM 02
6vCPU, 18GB vRAM, 600 GB

02 Create VPCs & make them available to multiple VMs

VPN

01 Public Compute Pool Resource
8 vCPU + 24GB vRAM + 800GB Block Storage

HI GIO CLOUD
powered by FPT & IIJ

HI GIO PRIVATE CLOUD

04 HI GIO Portal
Provision, Configure, Monitor, Manage and Operate

03 VM VM VM VM VM VM VA VA
Create and customize VMs & virtual as much as you want

02 Create VPCs & make them available to multiple VMs

VPN

01 Private Cloud Pool Resources
2x Private Cloud Type-A (52 vCore + 192 vRAM) + 4,000 GB Block Storage

HI GIO CLOUD
powered by FPT & IIJ

Virtual Private Cloud

High Availability
HA recovery just in case.

Security Group
L4 Firewall on Virtual Machine

Redundant 10 Gbps Uplink
10 Gbps double uplink connectivity.

L4 Firewall
To protect malicious inbound traffic.

Scale-out VPC
Selectable size of VPC.

Static & Dynamic Routing
To control internal and external routing.

1 to 1 NAT
For inbound access from the Internet.

NAT Gateway
Controlling outbound traffic via VPC.

Port Forwarding
For inbound access from the Internet.

L4 & L7 Load Balancer
For inbound traffic balancing.

Site-to-Cloud VPN
For secure private access from site.

Client-to-Cloud VPN
For secure private access from client.

(be available on the portal)

(need to purchase IP address in advance)

The Internet

Public and Private Cloud

Global Segment

Virtual Private Cloud (VPC)
As the cloud gateway, providing a full range of basic functions to Public and Private Cloud.

MPLS

On-Premise

Closed
Dedicated (Stable, SLA for speed)

Private Segment

VM VM VM VM

Private Segment

Model Comparison

HI GIO Public Cloud

HI GIO Private Cloud

Dedicated	Dedicated +	BareMetal

Public Cloud column:
- Application on OS
- NAT/FW config on VPC
- OS config/patch on VM
- ESXi hypervisor
- Physical Server
- SAN storage
- Physical NW
- DC Facility

Dedicated column:
- Application on OS
- NAT/FW config on VPC
- OS config/patch on VM
- ESXi hypervisor
- Physical Server
- SAN storage
- Physical NW
- DC Facility

Dedicated + column:
- Application on OS
- NAT/FW config on VPC
- OS config/patch on VM
- ESXi hypervisor
- Physical Server
- SAN storage
- Physical NW
- DC Facility

BareMetal column:
- Application on OS
- NAT/FW config on VPC
- OS config/patch on VM
- Physical Server
  - HW monitor
  - Install OS
- SAN storage
- Physical NW
- DC Facility

iDRAC/iLO admin is HI GIO Monitor HW Status by SNMP with Zabbix

iDRAC/iLO Remote console access permission to customer

Legend:
- 100% HI GIO
- Design and Manage : HI GIO Capacity planning: Customer (HI GIO will advise)
- HW monitoring: HI GIO Manage: Customer
- 100% Customer (HI GIO will advice)
- 100% Customer
- Shared responsibility between HI GIO vs Customer

Model Comparison

Features & Pricing| HI GIO Public Cloud & Private Cloud

HI GIO Public Cloud	Features	Initial Charge	Monthly Charge
1 CPU vCore	* From 1 vCore to 64 vCore per VM	Free of Charge	170,000 VND/vCore
1GB vRAM	* From 1GB to 512 GB per VM	Free of Charge	160,000 VND/GB

HI GIO Private Cloud	Features	Initial Charge	Monthly Charge
Dedicated	ESXi server with 25Gbps NW + 32Gb FC BTO (Build to order) only. *Standard packages will be released in 2024* (In-stock, no need to order)	Free of Charge	Contact us to get quotation
Dedicated +	ESXi server + Storage + NW devices BTO (Build to order) only.	Free of Charge	Contact us to get quotation
BareMetal	BereMetal server with 25Gbps NW + 32Gb FC ** OS license is not included BTO (Build to order) only.	Free of Charge	Contact us to get quotation

Spec. & Limit.

HI GIO PRIVATE CLOUD	Specification and Limitation
A maximum size of 1 Pool.	1 Private Cloud Resource Pool can allocate... - 2,000 vCore in maximum. - 10,000GB vRAM in maximum. - 500 VM in maximum.
Maximum allocatable resource to 1 VM.	1 VM in Private Cloud Resource Pool can allocate... - 64 vCore in maximum. - 512GB vRAM in maximum.
Maximum allocatable storage to 1 VM.	1 VM in Private Cloud Resource Pool can attach... - 60 disks attached in maximum. - 30,000 GB per one attached disk of Block Storage (Standard) - 10,000 GB per one attached disk of Block Storage (Premium)
Limitation of 1 VM Private Cloud Resource Pool	A number of Network Interface connected : 10 networks (segments) Maximum network bandwidth : 10 Gbps

Features & Pricing| Virtual Private Cloud

VPC	Performance and Spec	Initial Charge	Monthly Charge
VPC Standard	All VPC functions Network Throughput : Up to 1Gbps	Free of Charge	Free of Charge
VPC Premium	All VPC functions. Network Throughput : From 1Gbps up to 5Gbps	Free of Charge	1,000,000 VND/1Gbps
Global IPv4 Address	For internet access, 1to1 NAT, Port Forwarding, Client-to-Cloud VPN, Client-to-Site VPN	Free of Charge	100,000 VND / 1IP
VPC functions (VPC Standard and Premium)		**Initial Charge**	**Monthly Charge**
The internet connectivity	Redundant 10Gbps x 2 uplink connectivity.	Free of Charge	Free of Charge
Data Transmission	Inbound and Outbound	Free of Charge	Free of Charge
1to1 NAT	* Global IPv4 address Required	Free of Charge	Free of Charge
Port Forwarding	* Global IPv4 address Required	Free of Charge	Free of Charge
NAT Gateway	* Global IPv4 address Required	Free of Charge	Free of Charge
L4&L7 Load Balancer	* Global IPv4 address Required 200 sessions/sec per 1 Gbps VPC throughput	Free of Charge	Free of Charge
L4 Firewall		Free of Charge	Free of Charge
Security Group		Free of Charge	Free of Charge
VPN	* Global IPv4 address Required Client-to-Cloud VPN(IKEv2), Site-to-Cloud VPN(IPsec)	Free of Charge	Free of Charge
Routing	Static and dynamic routing of global and private segment	Free of Charge	Free of Charge

Features & Pricing | Block Storage

Block Storage	Features	Initial Charge	Monthly Charge
Standard Block Storage * Attached to Public and Private Cloud.	800 IOPS * From 1GB up to 30,000GB. * Upgradable to 2,000 and 4,000 IOPS.	Free of Charge	1,000 VND/GB
	2,000 IOPS * From 1GB up to 30,000GB. * Upgradable to 4,000 IOPS.	Free of Charge	3,000 VND/GB
	4,000 IOPS * From 1GB up to 30,000GB.	Free of Charge	5,000 VND/GB
Premium Block Storage * Attached to Public and Private Cloud.	8,000 IOPS * From 100GB up to 10,000GB. * Upgradable to 10,000 and 12,000 IOPS.	Free of Charge	10,000 VND/GB
	10,000 IOPS * From100GB up to 10,000GB. * Upgradable to 12,000 IOPS.	Free of Charge	12,000 VND/GB
	12,000 IOPS * From100GB up to 10,000GB.	Free of Charge	15,000 VND/GB

Features & Pricing| OS for Compute

CentOS / AlmaLinux	Performance and Spec	Initial Charge	Monthly Charge
CentOS ver. 7.9		Free of Charge	Free of Charge
AlmaLinux ver. 8.5		Free of Charge	Free of Charge
AlmaLinux ver. 9.0		Free of Charge	Free of Charge
Ubuntu	Performance and Spec	Initial Charge	Monthly Charge
Ubuntu ver. 18.04		Free of Charge	Free of Charge
Ubuntu ver. 20.04		Free of Charge	Free of Charge
Ubuntu ver. 22.04		Free of Charge	Free of Charge
Windows OS	Performance and Spec	Initial Charge	Monthly Charge
Windows Server 2016		Free of Charge	600,000 VND/Instance
Windows Server 2019		Free of Charge	600,000 VND/Instance
Windows Server 2022		Free of Charge	600,000 VND/Instance

3

Backup as a Service

We provide **BaaS** for all enterprises who need to protect their data in cloud environments, on-premises virtualization environments, and physical servers with a comprehensive backup solution. This solution can back up multiple platforms such as Centos, RedHat, Ubuntu, Windows, etc.

SLA (Service Level Agreement)
The commitment to keep your cloud available around the clock

99.99%

Veeam Software Company
Market leader of Cloud Backup & Recovery

Backup as a Service is the Gold Service Provider of Veeam[*]
as the Veeam solution enabler on cloud
* IIJ Global Solutions Vietnam has the Gold Service Provider certificate

400,000+ Customers worldwide
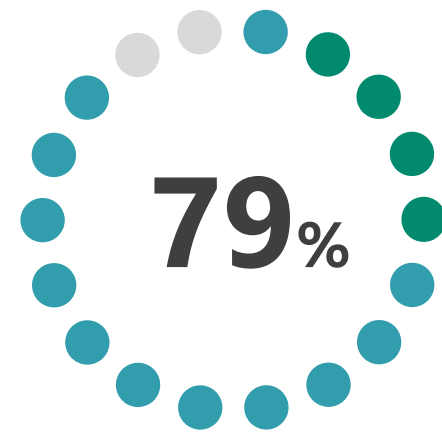
15.3 Mil+ VMs are protected

74% of Fortune 500 enterprises choose Veeam

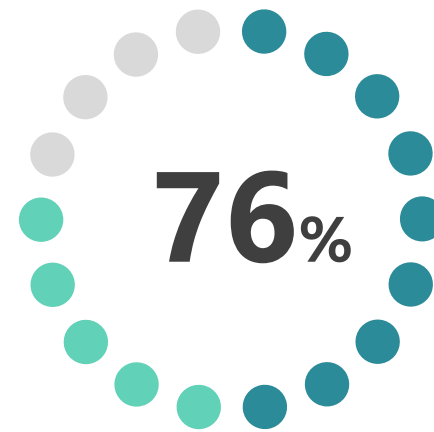**6th** times a leader of Gartner Magic Quadrant

Data protection and preservation is the critical issue for IT leaders
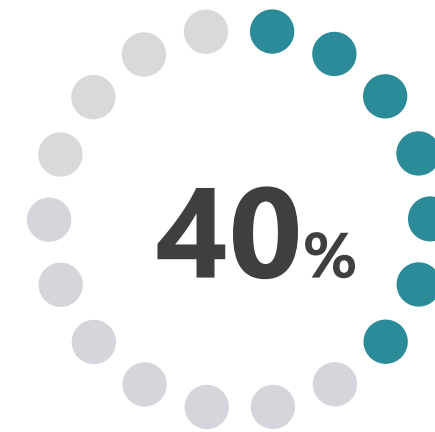
Veeam, Data Protection Trend 2023.
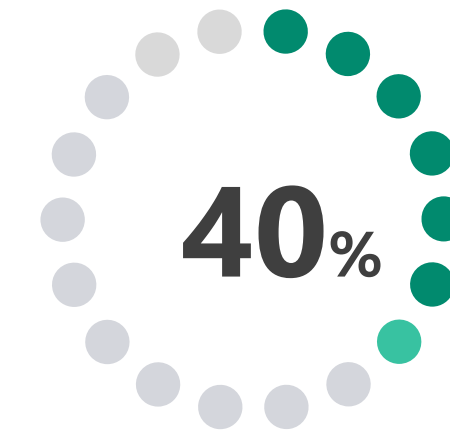Trend survey by Veeam in 2023, for 3,000+ IT leaders

79%

79% of enterprises have a gap in data protection

76%

76% of enterprises had at least one ransomware attack

40%

40% of servers suffered at least one trouble per year

40%

40% of data is unrecoverable after cyberattack & trouble

Key challenges of backup data across the Multi-cloud

Data Criticality
The need to ensure that data is secure, protected and in compliance is increasingly critical to business outcomes

Data Growth
The sheer amount of data, its rapid growth, changes and related costs of managing it is a massive challenge for businesses of all sizes
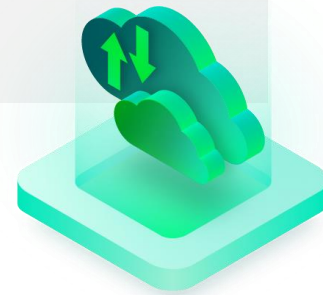
Data sprawl
Data is generated from a wider variety of sources, introducing challenges in managing and mining value from the data

The 3-2-1 rule of Backup

3

≥ Copies of your data
Having one backup isn't enough, especially if it is stored in the same location as the primary data and on the same type of media.

2

≥ Types of media
Two devices of the same type have a much greater risk of failing around the same time than two different storage media.

1

≥ Copy off-site
Physical separation between copies is imperative to plan for localized disasters that could damage all copies of data stored in one place.

CLOUD CONNECT
Without complicated configuration, installed agent automatically connect to Backup server.

CLOUD BACKUP
Transfer backup data via encrypted connection and keep them at all time.

CLOUD RECOVERY
Recovery your data instantly from cloud whenever you need.

Key Capabilities

M365 BaaS **Multi-VMs BaaS** **Multi-Cloud BaaS** **Multi-platforms BaaS**

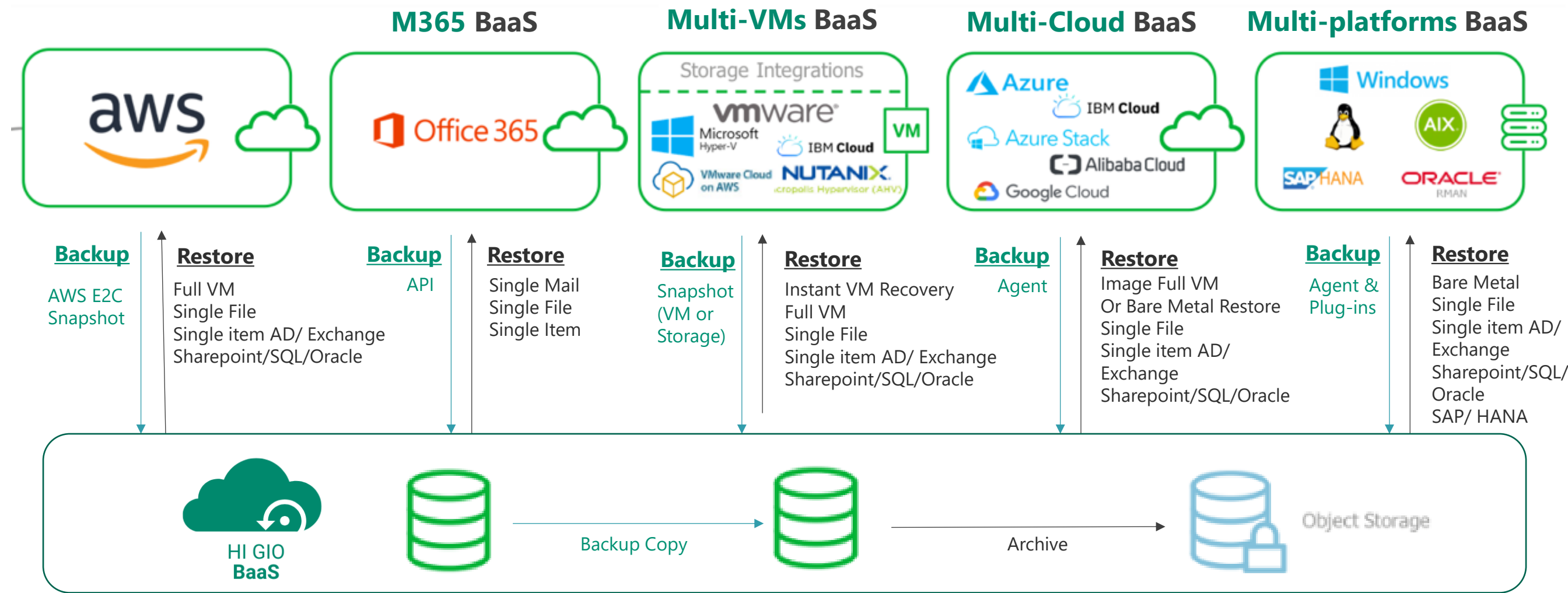| Backup	Restore	Backup	Restore	Backup	Restore	Backup	Restore	Backup	Restore
AWS E2C Snapshot	Full VM, Single File, Single item AD/ Exchange Sharepoint/SQL/Oracle	API	Single Mail, Single File, Single Item	Snapshot (VM or Storage)	Instant VM Recovery, Full VM, Single File, Single item AD/ Exchange Sharepoint/SQL/Oracle	Agent	Image Full VM Or Bare Metal Restore, Single File, Single item AD/ Exchange Sharepoint/SQL/Oracle	Agent & Plug-ins	Bare Metal, Single File, Single item AD/ Exchange Sharepoint/SQL/Oracle, SAP/ HANA

HI GIO **BaaS**   Backup Copy   Archive   Object Storage

Broad protection
Automate comprehensive backup across cloud, virtual, physical and NAS environments.

Freedom of choice
100% software-defined and hardware– agnostic solutions for ultimate flexibility

Reliable recovery
Automated backup and replica testing ensures recovery in any disaster.

Data stays safe
End-to-end immutability for your backups everywhere, from the datacenter to the cloud.

Cloud-integrated agents
Centralized AWS-, Microsoft-Azure- and Google-Cloud backup and recovery.

Restore anywhere
Recover across multiple clouds and platforms in a portable data format.

Instant Recovery
Achieve your service level agreements (SLAs) with reliable restores from the pioneer of instant recovery.

Scale out with ease
Reduce costs by combining any storage together to create a scalable backup repository.

Cloud DR
Get two-step recovery to any cloud for agile disaster recovery (DR), dev/test and analytics.
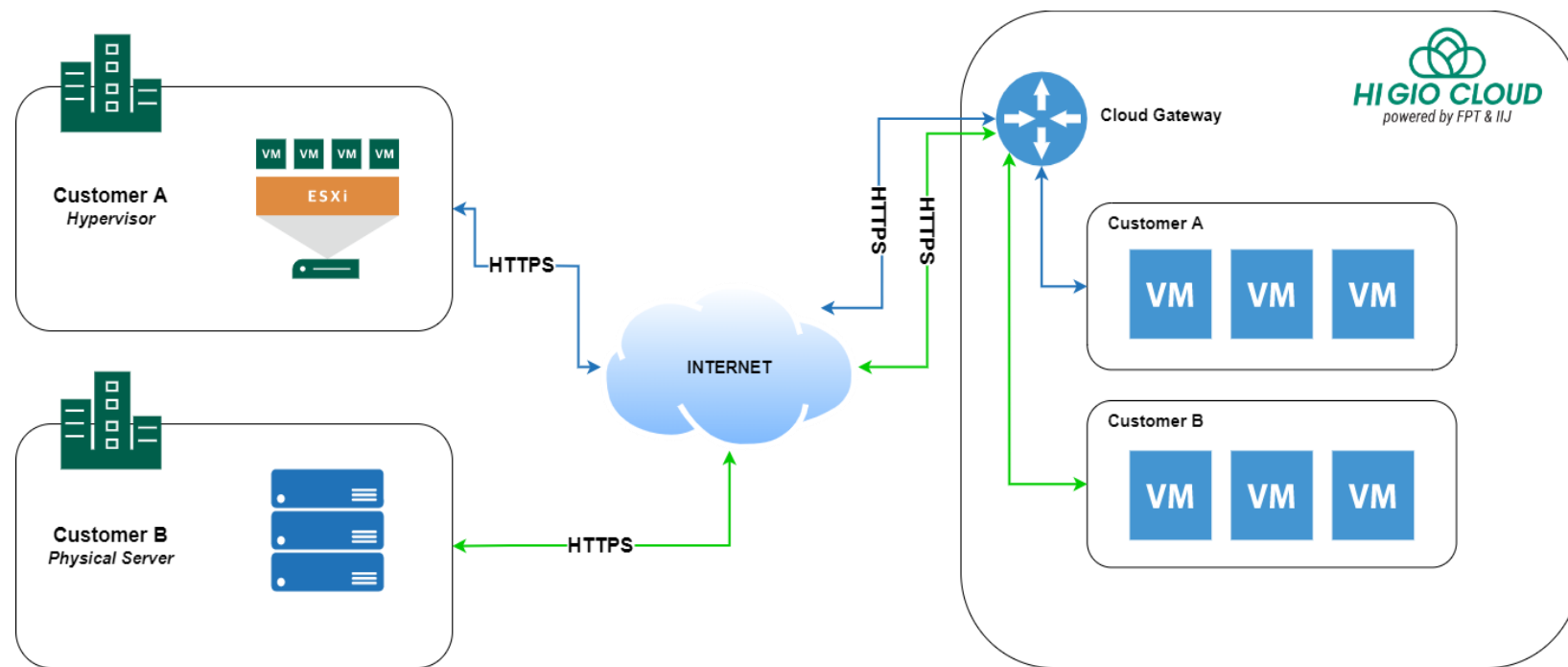
Methods

HI GIO BaaS

HI GIO BaaS

We offer a user-friendly & cost-effective online Data Backup & Recovery solution ensuring safeguarding **files, folders**, etc.

1

- Utilizing Veeam Portal.
- Applying on Gen1, Gen2, & on-premises environment.
- Tailoring a secure and efficient storage, disaster recovery, and backup service to business needs.


HI GIO Backup

HI GIO **Backup**

We offer a high-speed Backup & Recovery solution with **VM servers** in a single portal, exclusively available for **HI GIO Gen.2.**

2

- Allowing tenants to back up & restore single VMs, vApps.
- Facilitating handy self-service restoration within a single portal using vCloud Director (vCD).
- Swiftly restore diverse workloads as VMs by instant recovery; aid in migration or quickly recovering with minimal impact; improve RTO and minimize disruption to mere minutes.
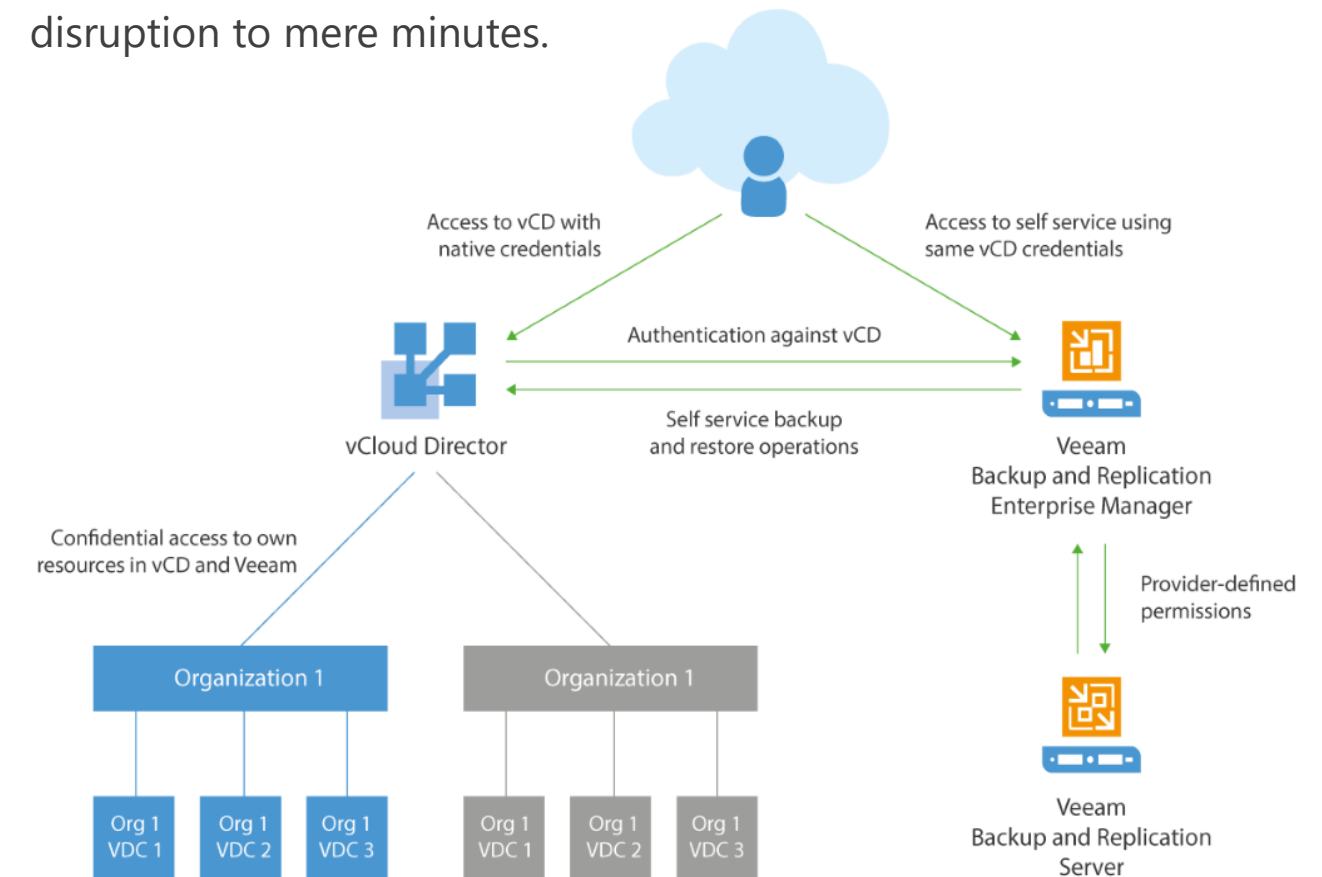
FEATURES & PRICING

Mr. Kenichiro Okizaki | Vice President, CTO of IIJ GS Vietnam
(Gold Service Provider of Veeam - Award 2022)
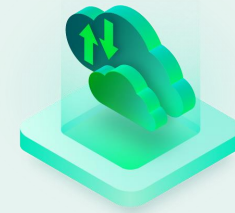
Cloud Connect
Fast and secure connection to cloud backup space. The Veeam agent installed on the target autonomously connects to

Built-in WAN acceleration
Veeam technology to optimize data transfer to cloud backup storage.

End-to-End Encryption
All online data paths and storage are encrypted. Your data is completely secured even while transferring

VM Recovery
Not only files, but also, we can rescue VMs from backup repository instantly

File-level Recovery
Through the control panel, you can take and restore any file from its backup storage

Unified Control Panel
The control panel of Backup as a Service is unified to management portal with Single Sign-On

Software	Features	Initial Charge	Monthly Charge
Veeam Backup & Recovery Agent with Cloud Connect Enterprise Plus	Backup Targets are : • Win 7 SP1, Win 8.x, Win 10, Win 11 • Win Server 2008 R2 SP1, 2012, 2016, 2019, 2022 • CentOS 6.0 or later • RHEL 6.0 or later • Ubuntu 14.04 or later	Free of Charge	300,000 VND/instance
Microsoft 365 BaaS Required the number of M365 accounts to backup	Backup Targets: Exchange Online, SharePoint Online, OneDrive for Business, Teams	Free of Charge	• 40,000 VND/ M365 account • 2,000 VND/ GB
Veeam Cloud Connect	* In case of that you have the on-premise license of Veeam Backup & Recovery Agent.	Free of Charge	190,000 VND/instance
Data Backup Storage * Need backup agents for all backup targets VMs	* From 1GB up to 30,000GB.	Free of Charge	2,000 VND/GB

How we do

4

HI GIO DRaaS

Disaster Recovery as a Service

We provide **HI GIO DRaaS** for all enterprises who need to initiate secure data replication to another region, such as on-premises to HI GIO Cloud, HI GIO Cloud Ho Chi Minh to HI GIO Cloud Hanoi, or vice versa by setting up HI GIO DRaaS on their resource servers. Furthermore, the RPO has a minimum value of 5 minutes, which suits their critical system.

**Use independently
Or use together with Compute**

What is the potential disaster for enterprise?

Natural Disaster
The risk of service and business interruption by natural disasters is a high potential issue for all enterprises. (Floods, Earthquakes, or Storms.)
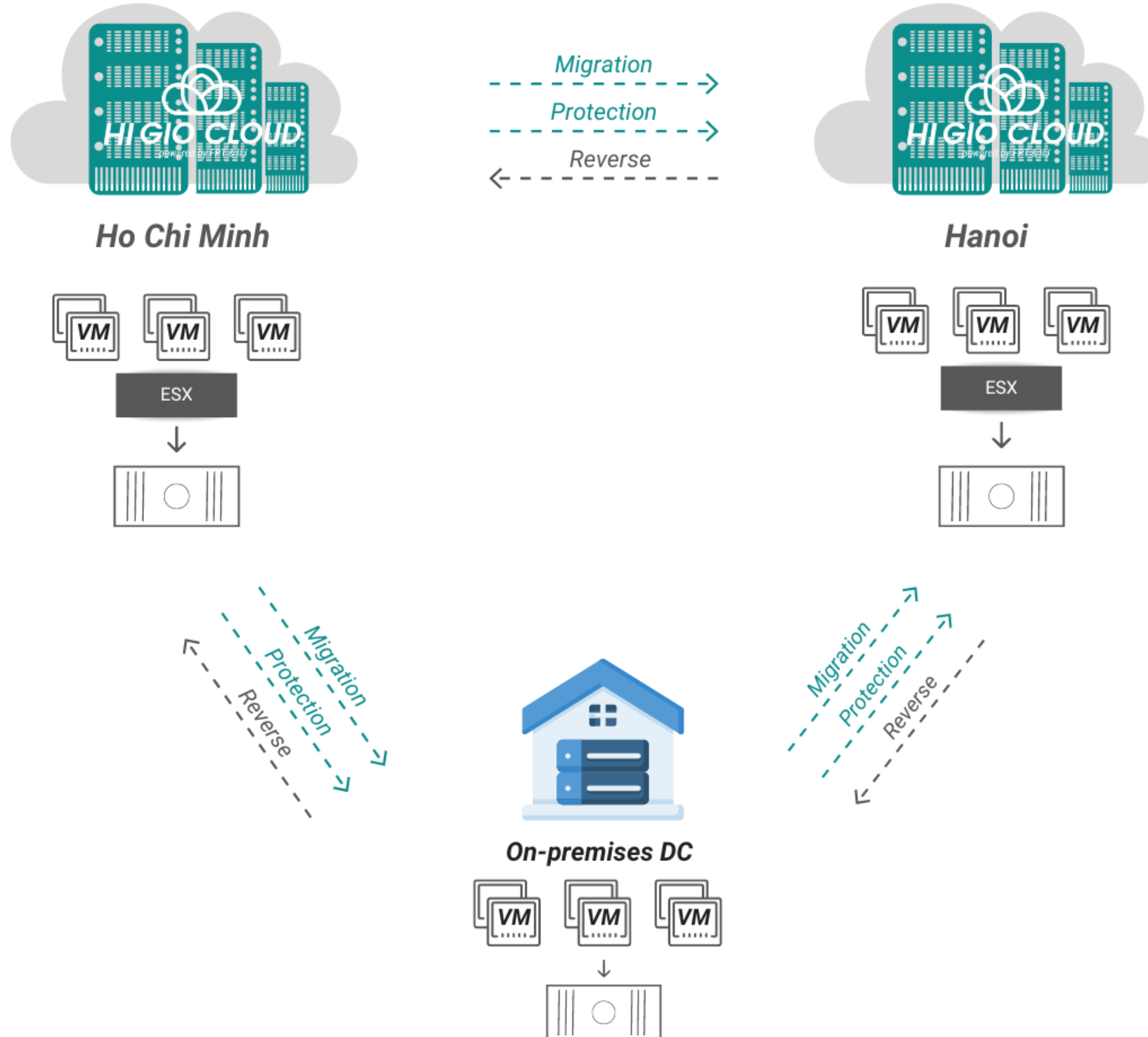
Black Out
The risk of electricity shortage and black-out greatly impacts service and business continuity. Even in the data center, the risk still exists.

System Critical Trouble
Of human operation mistakes, cyber-attacks, or unexpected hardware troubles, the service and business may be suddenly suspended.

FEATURES & PRICING

	Features
Supported Backup-Target Hypervisors	VMware vSphere ESXi Ver 6.5 or above
SLA	Partial Failover : Completion in 15 minutes (per 1 VM) Full Site Recovery : 1 hour (Less than 50VMs in total)
Failover Operation	By VMware vCDA portal
RPO (Recovery Point Objective)	15 minutes
Full Failover and Full Failback	Available
Partial Failover and Partial Failback * Failover operation of selected VMs	Available
Test Failover	Available
Outer Connection	Internet, MPLS, or Cross-Connect in DC
Encrypted Data Transmission	AES-256 Encryption
Automatic L2 VPN connection	HI GIO DRaaS creates L2 VPN connection to failover-deploy with the same network configuration

FEATURES & PRICING

PAY AS YOU GO

HI GIO DRaaS provides you the pay-per-use monthly charge to minimize the cost until the disaster. High performance, enterprise-class cloud disaster recovery service, priced for smaller organizations.

TRAINING & PARTIAL FAILOVER

Support recovery training for the complete preparation to the real disaster. The Partial failover features help it.

COMPLIANCE

Faster recovery times may help avoid fines for missing deadlines.
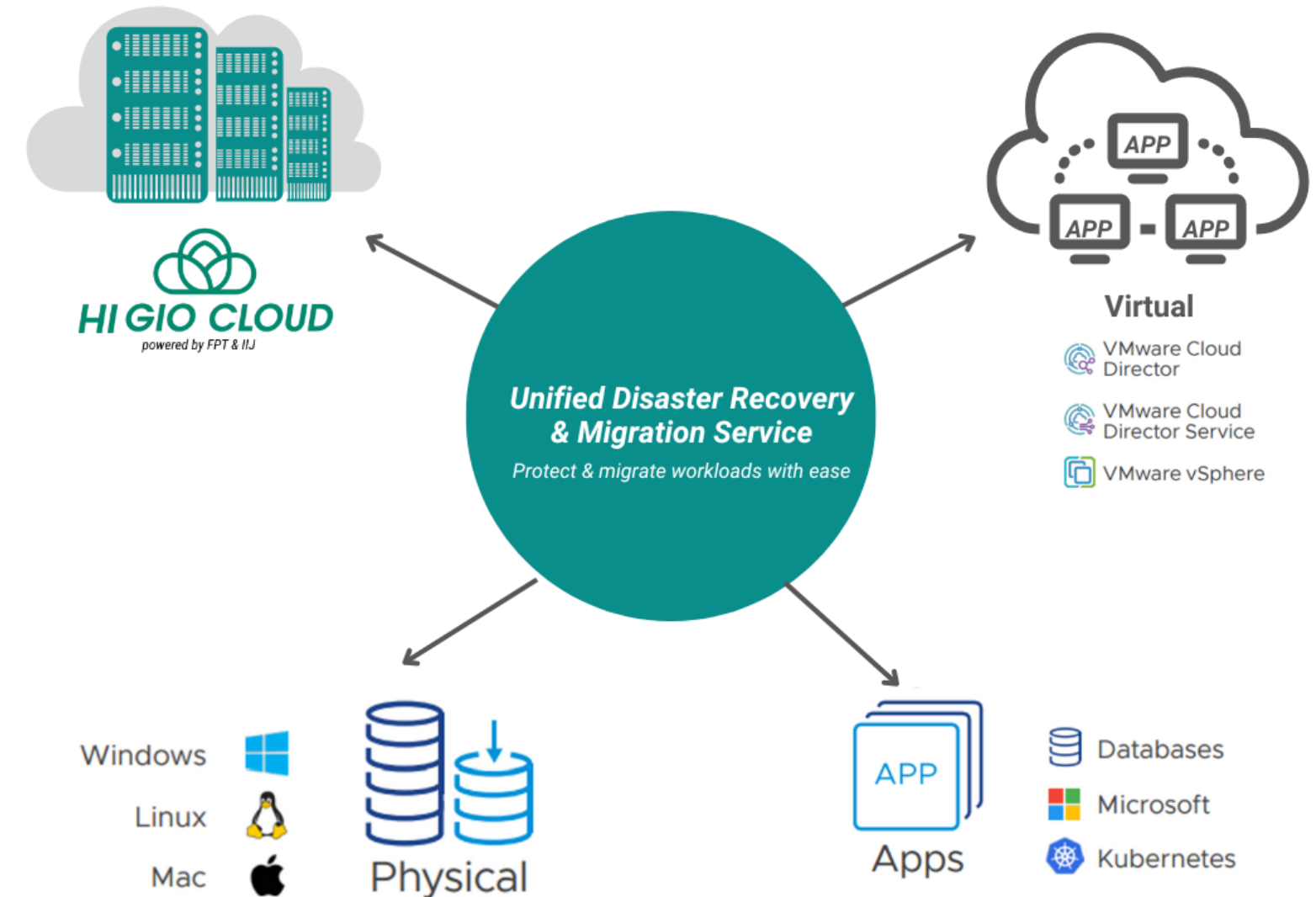
QUICK INSTALLATION

Just install the DRaaS application onto your HI GIO Compute. All settings are configured on its app.

FASTER RECOVERY TIMES

Achieve your service level agreements (SLAs) with reliable restores from the pioneer of instant recovery.

PROFESSIONAL ADVISORY

Consulting and Advisory service included to consider your BCP and DR planning.

HI GIO CLOUD powered by FPT & IIJ

Unified Disaster Recovery & Migration Service
Protect & migrate workloads with ease

Virtual
- VMware Cloud Director
- VMware Cloud Director Service
- VMware vSphere

Windows · Linux · Mac — Physical

APP — Apps
- Databases
- Microsoft
- Kubernetes

How we do

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HI GIO
Network & Security

We provide **HI GIO Network & Security** for all enterprises' networks that need to address their particular protection and compliance requirements by fine-grained protections at host, network, and application levels such as Distributed Firewall, Edge Firewall, Web Application Firewall (WAF), Third Party Firewall (Checkpoint, Fortigate), Zero Trust Network Access (ZTNA).

**Attachable to
Public and Private Cloud**

SLA (Service Level Agreement)
The commitment to keep your cloud available around the clock.

99.99%

Security Add-ons.
Protect your cloud

A wide variety of security appliances

HI GIO cloud provides you with several essential virtual appliances to supplement its security capability.

As your demand, necessity, and will, combine any 3rd party appliance to realize. The appliance control panels are integrated into the HI GIO Cloud portal.

Option 01

Web Application Firewall

WAF prevents attacks exploiting a web application's vulnerabilities. It is essential for critical websites to handle privacy and confidential information

Option 02

Next-Generation Firewall

NGFW is the key solution to protect cloud space from unknown threats in cyberspace

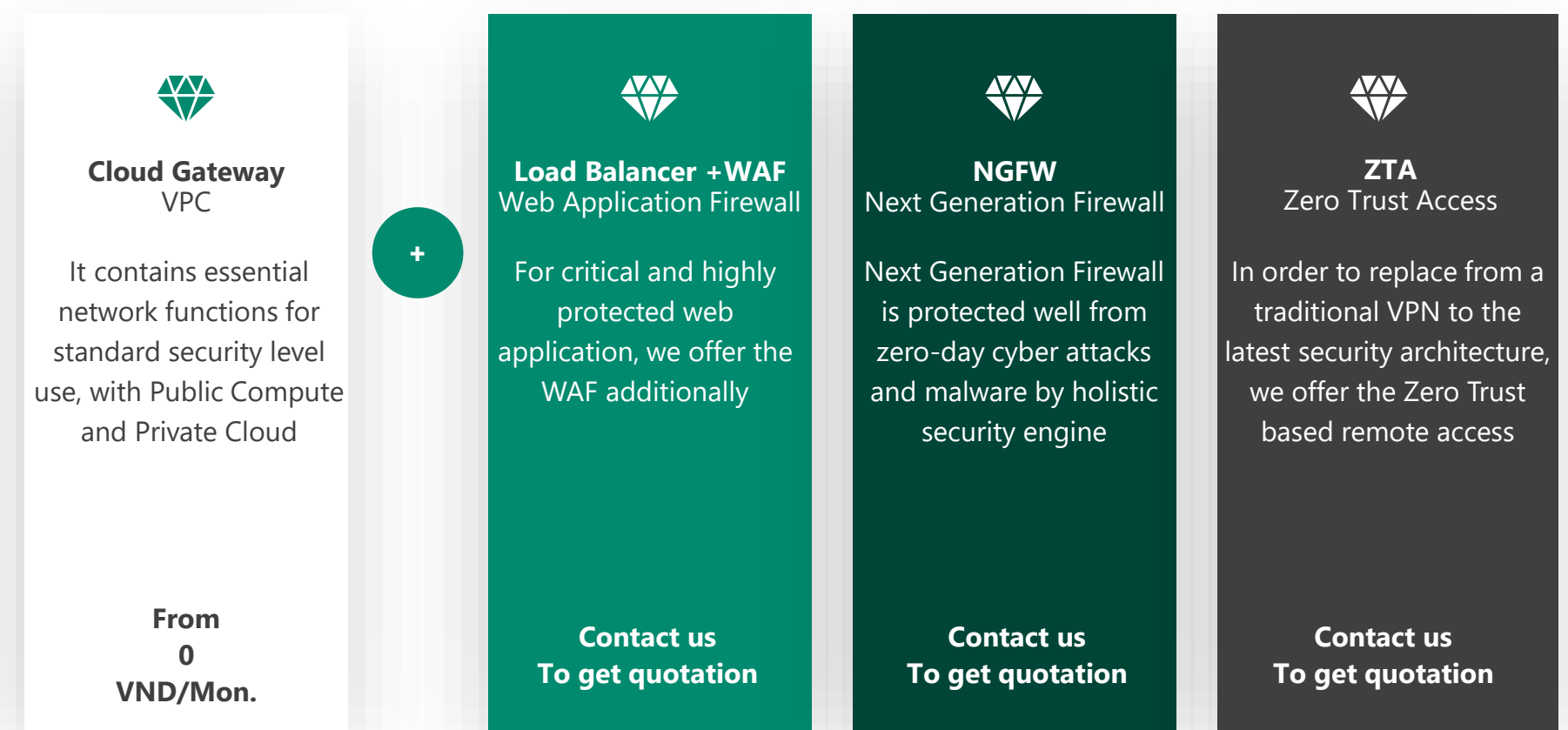**Option 03**

Zero Trust Access

ZTA is the latest architecture concept to replace the traditional remote VPN access to secure your cloud zone
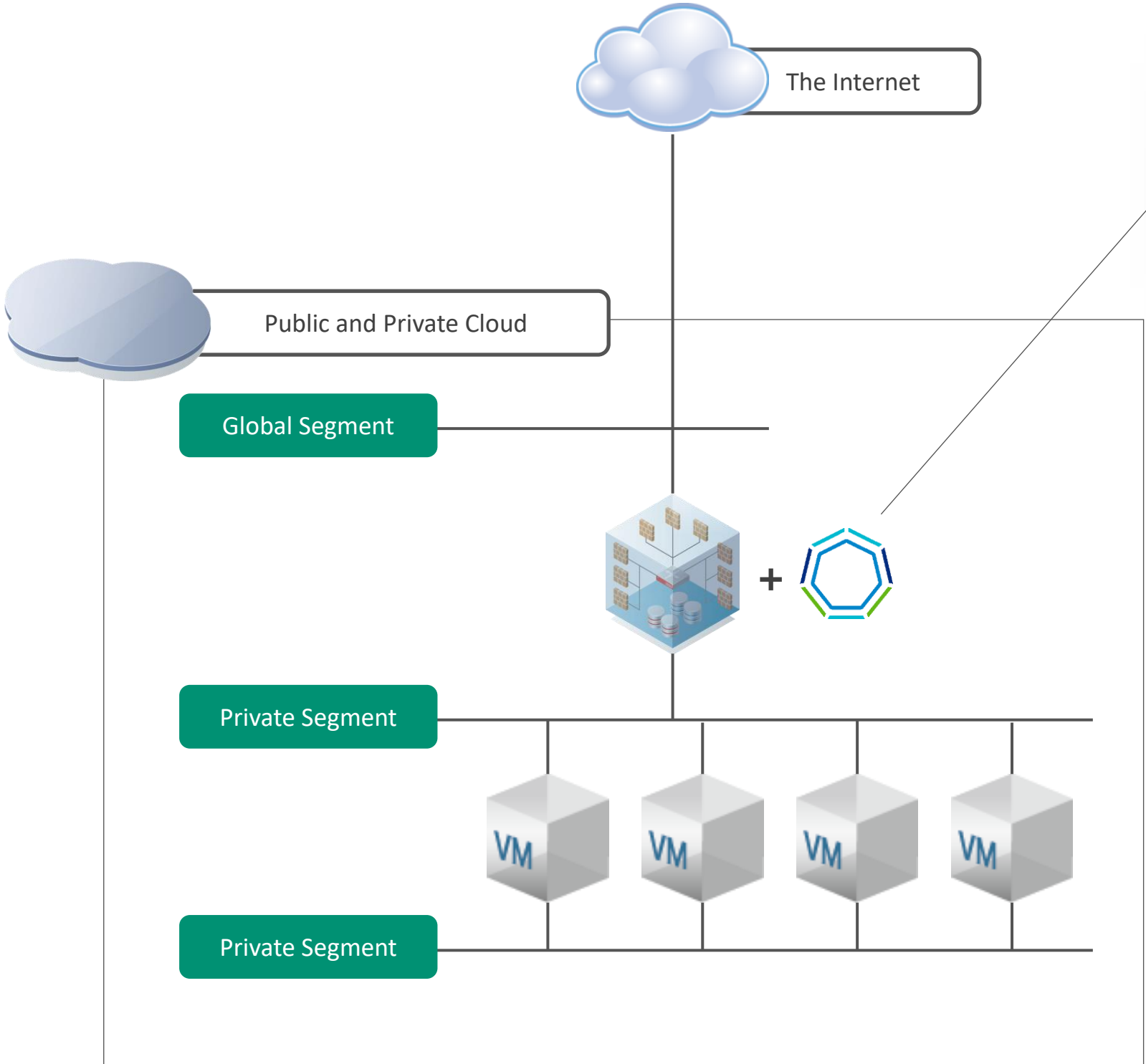

Create your own Security

Combination from selectable components.

In addition to the standard Cloud Gateway, you can add some network & security components.

Cloud Gateway
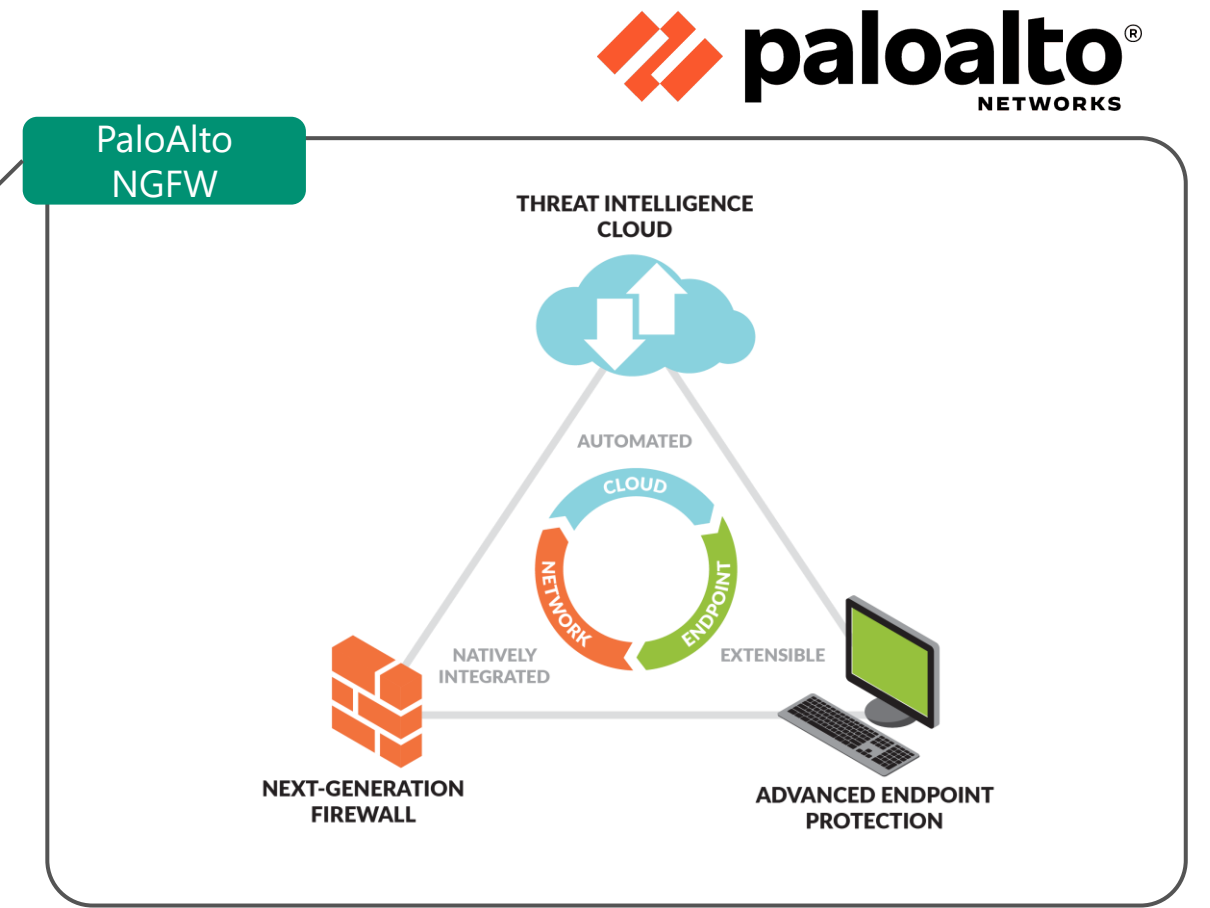VPC

It contains essential network functions for standard security level use, with Public Compute and Private Cloud

From
0
VND/Mon.

+

Load Balancer +WAF
Web Application Firewall

For critical and highly protected web application, we offer the WAF additionally

Contact us
To get quotation

NGFW
Next Generation Firewall

Next Generation Firewall is protected well from zero-day cyber attacks and malware by holistic security engine

Contact us
To get quotation

ZTA
Zero Trust Access

In order to replace from a traditional VPN to the latest security architecture, we offer the Zero Trust based remote access

Contact us
To get quotation

VPC + WAF add-on

The Internet

Public and Private Cloud
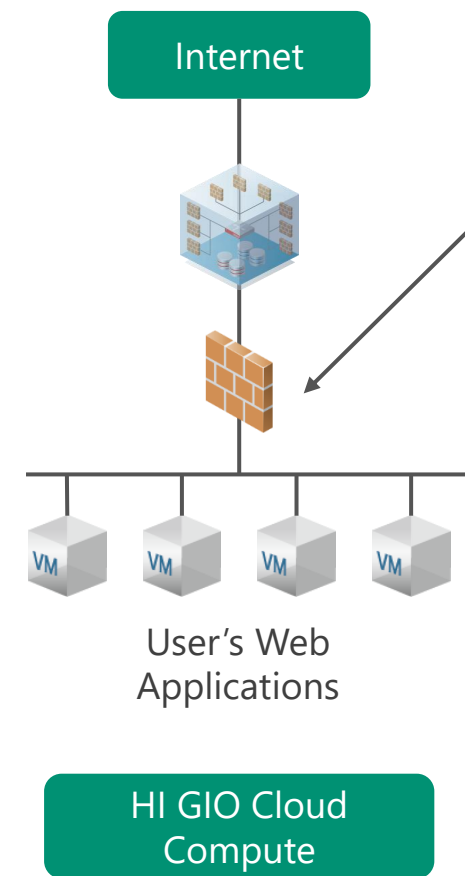
Global Segment

Private Segment

+

Private Segment

VM VM VM VM

VPC + WAF add-on

WAF is ready to use with VPC. For additional features and security.

	VPC Standard / Premium	WAF add-on
L4 Load-balancing	Limited to basic L4 protocols	Full Featured
L7 Load-balancing	Limited to basic L7 features	Full Featured and HTTP2
Global Traffic Control	-	Enterprise Grade GSLB
App Rate Limiting	-	Full featured
DDoS Protection	-	L3/L4/L7 DDoS Protection
Intelligent WAF	-	Full featured WAF
Scale and HA	Active-Standby	Active-Active
Application Analytics	-	Advanced Analysis and Log Insight

PaloAlto Next Generation Firewall (NGFW)

Consolidated Security for Virtualized Environments

	Bundle 1	Bundle 2
VM Series Firewall	◆	◆
Application identification	◆	◆
User identification	◆	◆
Network, Routing features	◆	◆
IPSec VPN	◆	◆
Remote VPN	◆	◆
Filter Files and Data	◆	◆
Antivirus	◆	◆
IPS	◆	◆
Anti-Spyware	◆	◆
URL filtering	-	◆
DNS Security	-	◆
Detect unknown malware using sandbox	-	◆

Internet

PaloAlto NGFW

User's Web Applications

HI GIO Cloud Compute

paloalto NETWORKS ®

THREAT INTELLIGENCE CLOUD

AUTOMATED

CLOUD

NETWORK   ENDPOINT

NATIVELY INTEGRATED   EXTENSIBLE

NEXT-GENERATION FIREWALL

ADVANCED ENDPOINT PROTECTION

Safous Zero Trust Access

Software-defined Perimeter with Zero Trust concept

Unified Virtual Appliance

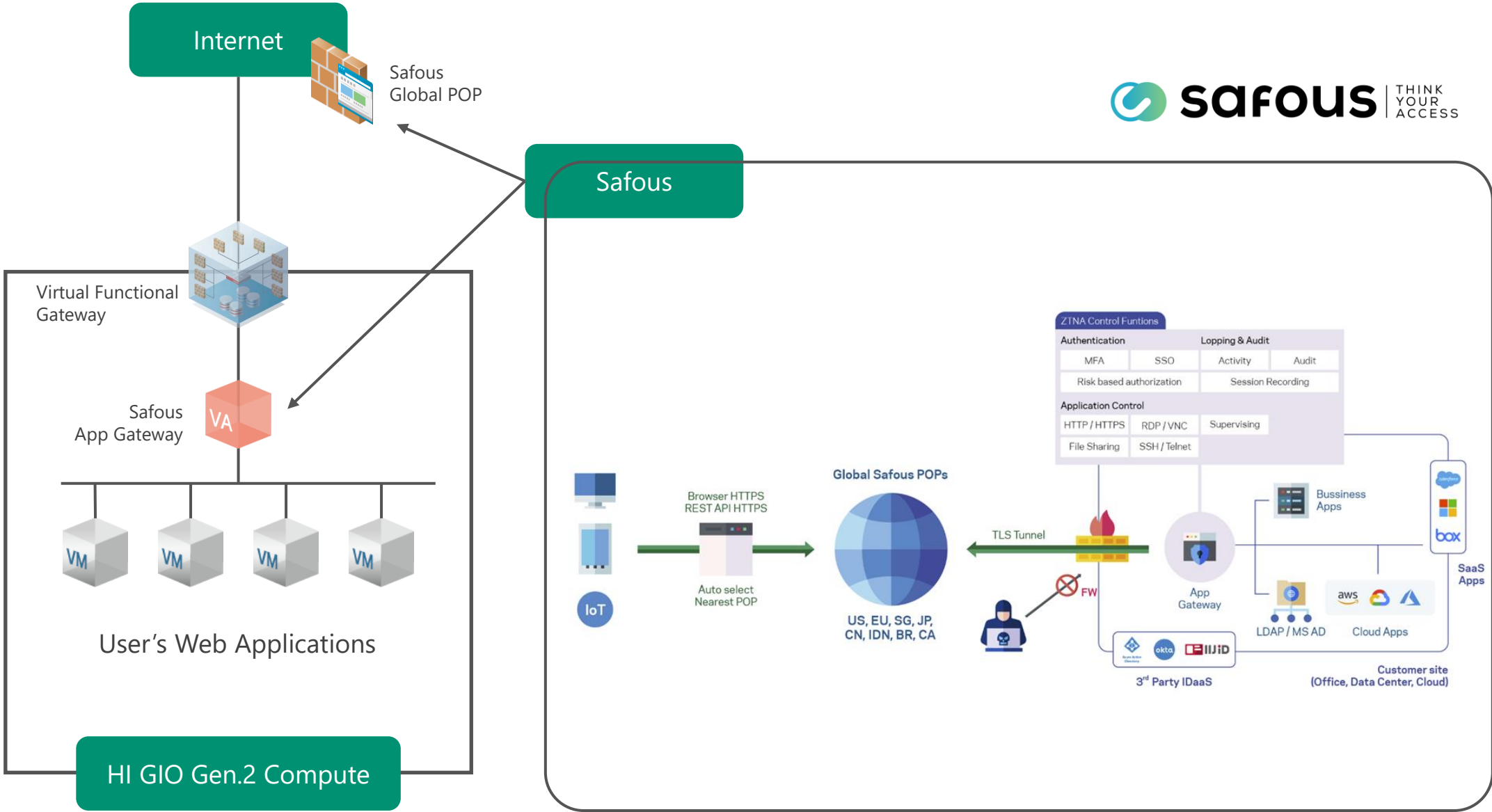Virtual Appliance integrated to HI GIO Gen.2 platform for unified use.

Redefine the remote access

From any device and anywhere at any time, Safous ensure the secure zero trust access.

All data under your control

All data is stored in your cloud compute for compliance and governance.

Internet

Safous Global POP

Virtual Functional Gateway

Safous App Gateway — VA

User's Web Applications

HI GIO Gen.2 Compute

Safous

safous | THINK YOUR ACCESS

ZTNA Control Funtions

Authentication		Lopping & Audit	
MFA	SSO	Activity	Audit
Risk based authorization		Session Recording	

Application Control		
HTTP / HTTPS	RDP / VNC	Supervising
File Sharing	SSH / Telnet	

Browser HTTPS
REST API HTTPS

Global Safous POPs

Auto select Nearest POP

US, EU, SG, JP, CN, IDN, BR, CA

TLS Tunnel

FW

App Gateway

Bussiness Apps

box

SaaS Apps

LDAP / MS AD   Cloud Apps

aws

IoT

3rd Party IDaaS

Customer site (Office, Data Center, Cloud)

FEATURES & PRICING

WAF add-on for VPC	Performance and Spec	Initial Charge	Monthly Charge
WAF add-on	Network Throughput : Follow-up VPC spec	Free of Charge	Contact us to get quotation

PaloAlto NGFW	Performance and Spec	Initial Charge	Monthly Charge
2 vCPU – Bundle 1	FW Throughput: Up to 1.5Gbps	Free of Charge	Contact us to get quotation
2 vCPU – Bundle 2	FW Throughput: Up to 1.5Gbps +Web & DNS Security	Free of Charge	Contact us to get quotation
4 vCPU – Bundle 1	FW Throughput: Up to 3Gbps	Free of Charge	Contact us to get quotation
4 vCPU – Bundle 2	FW Throughput: Up to 3Gbps +Web & DNS Security	Free of Charge	Contact us to get quotation
8 vCPU – Bundle 1	FW Throughput: Up to 7Gbps	Free of Charge	Contact us to get quotation
8 vCPU – Bundle 2	FW Throughput: Up to 7Gbps +Web & DNS Security	Free of Charge	Contact us to get quotation

Safous ZTA	Performance and Spec	Initial Charge	Monthly Charge
App Gateway	Refer to the Safous Catalog	TBQ	TBQ
User License	Refer to the Safous Catalog	TBQ	TBQ

How we do

6 HI GIO **S3 Storage**

An unlimited Backup Storage solution for businesses

HI GIO S3 Storage is a comprehensive solution built on the Object Storage platform flexibly connected via the S3 protocol. Meets security standards with fast data access, cost optimization, and high availability from many environments. This solution suits Data Lake, Cloud-native Application Data, Data Archiving, Backup and Recovery.

aws

Azure

HI GIO CLOUD
powered by FPT & IIJ

Company

Data Center

Portal

200+ Customers

300mil+ Files

50+ Projects

99,99% SLA

Storing Big Data for Data Analysis
The scalability and integrity of this service help businesses effectively manage & access big data.

Storing Data on social networks & online applications
where personal data, user interactions, and all posted contents must be stored.

Storing Cold Data
known as inactive data for extended periods over months, years, or decades.

Backing up Data
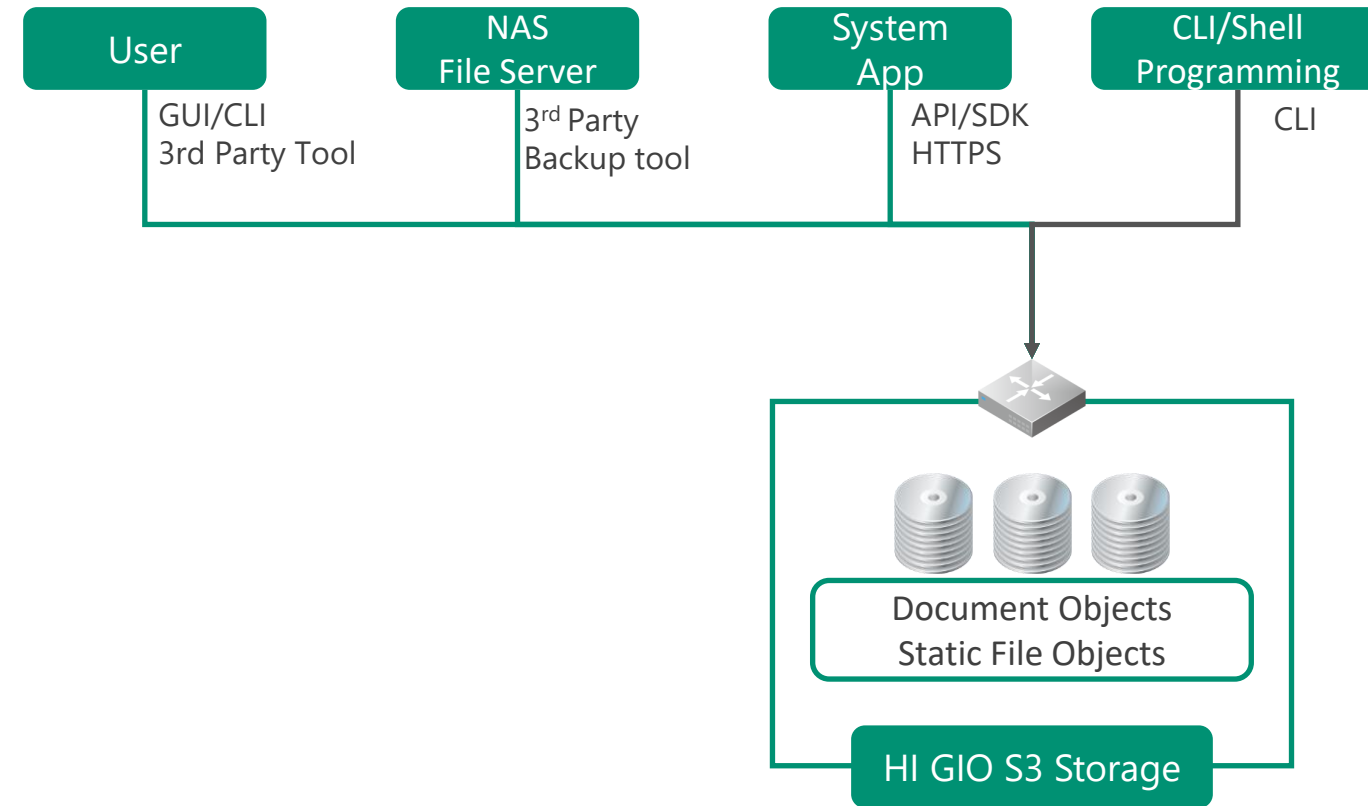from images, videos, sounds, and documents, whether static or dynamic.

An alternative solution for NAS to optimize equipment investment and operating costs. It can back up and expand storage space for NAS.

Object Storage

Application-Driven
File access via HTTPS/APIs from the applications directly.

Scalability
5TB per one object size, and over 100TB bucket to put everything in.

Data Protection
Keep your data protected through HI GIO S3 Storage, with objects stored redundantly on multiple devices across multiple facilities.

User	NAS File Server	System App	CLI/Shell Programming
GUI/CLI 3rd Party Tool	3rd Party Backup tool	API/SDK HTTPS	CLI

Document Objects
Static File Objects

HI GIO S3 Storage

Storage for Static Object
Store any type of static objects including document, image, movie, files from your adaptive NAS/File server as their backup

Replace from NFS/FTP
Replace the old-fashion FTP and NFS files system to flexible object storage to be managed by HTTPS, API, SDK, and CLI

HI GIO S3 Storage provides advanced cloud data storage solutions from local backup data or global Clouds (AWS, Azure, GCP) to the local Cloud.

Backup from other S3 services

Backup directly from NAS devices, or on-premises devices

Backup directly from some cloud-native applications on the HI GIO platform

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FEATURES & PRICING

SUPER FAST

- Move large data blocks quickly, high-speed reaching 100MB/s.
- FPT Telecom network connection - transmission bandwidth is always stable, fastest, and most consistent.
- Flexible integration into customers' Backup system via S3 protocol.

COST- SAVING

- Optimize 30 - 50% of operating costs and system investment compared to other CSPs.
- Quickly expand storage space.
- Optimize usage time when flexibly connecting to customer systems via the S3 protocol.

SECURITY - SAFE

- Data on servers at FPT Data Center meeting international standards (Hanoi, Ho Chi Minh).
- The system is built on Cluster Multi-node and HA technology.
- Preserve data using Object Lock and versioning.
- TLS/SSL transmission data encryption + SSE at-rest data encryption.

JAPANESE SERVICE

- 24/7/365 support from a team of leading telecommunications experts, both domestic and international.
- English - Vietnamese – Japanese.

FEATURES & PRICING

Class	Performance and Spec	Initial Charge	Monthly Charge
Basic	• Storage: 1TB • Request total: 100 requests/second • Maximum Bucket: 100 • Bandwidth (In/Out): Unlimited • Free Trial: 7 days • Support: 24/7/365	Free of Charge	1.500.000 VND/ month
Pro	• Storage: 10TB • Request total: 200 requests/second • Maximum Bucket: 100 • Bandwidth (In/Out): Unlimited • Free Trial: 14 days • Support: 24/7/365	Free of Charge	9.000.000 VND/ month
Common Spec for all class		Initial Charge	Monthly Charge
Data Transfer Charge	Upload and Download	Free of Charge	Free of Charge
Data Transaction Charge	GET and POST	Free of Charge	Free of Charge
Maximum Number of Bucket	100	Free of Charge	Free of Charge
Maximum Object Size	5 TB	Free of Charge	Free of Charge
Data Transfer Security	HTTPS	Free of Charge	Free of Charge
Object Storage Encryption	SSE-C with AES-256	Free of Charge	Free of Charge
Other features	Versioning, Object Lock (Compliance or Governance), Audit Log for bucket, IAM	Free of Charge	Free of Charge

How we do

HI GIO Kubernetes

Container management and orchestration service

A managed Kubernetes service based on the open-source system is run on the HI GIO Cloud infrastructure (VMware-based technology). By automatically managing software deployment and simplifying the management of containerized applications, software developers can focus on application development & operation in the Cloud.
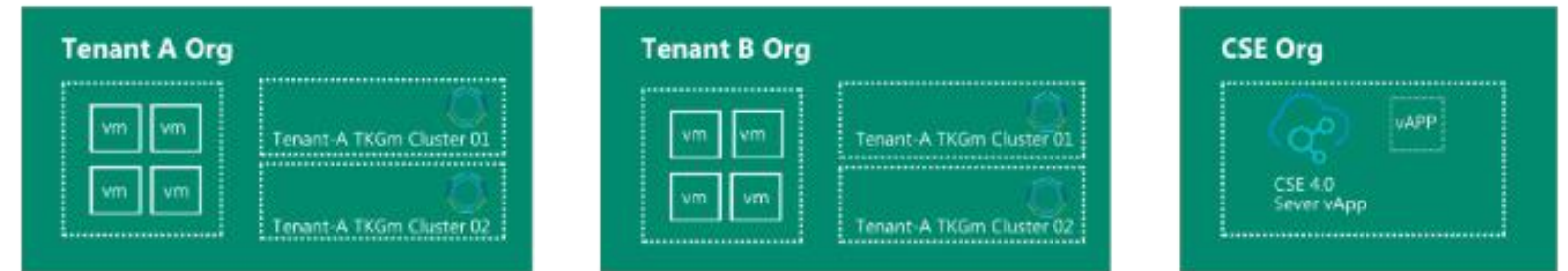
Seamless Scaling. Simplified Management

Peace of Mind. Ensures your applications run smoothly and consistently, 99,99% SLA.

Enhanced Networking and Storage. Clusters on HI GIO Kubernetes can leverage existing customer networks and storage configurations, simplifying the integration and management of Kubernetes environments.

Simplified Management. The integration provides a unified management interface within HI GIO Portal, allowing administrators to manage Kubernetes clusters alongside traditional virtual machine workload.

Robust Security and Compliance. HI GIO Kubernetes' clusters build on trusted upstream and community projects, delivering a secure and compliant Kubernetes platform with VMware's support. In addition, it allows the creation of nodes with Private IP and controls access to the cluster through the IP whitelist feature.

FEATURES & PRICING

Integrating UI plug-in with HI GIO Portal
Users can manage their Kubernetes environments alongside other cloud resources within the same portal.
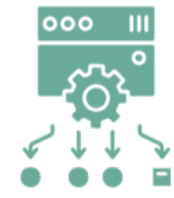
Managing Multi-cluster
View and manage multiple Kubernetes clusters. Users can perform actions such as scaling, updating, and deleting clusters directly from the HI GIO Portal.

Auto-scaling cluster
Automatically scale Kubernetes clusters based on predefined metrics and policies.

Using HI GIO Load Balancing
Implement load balancing to ensure optimal distribution of traffic across pods and services, enhancing the availability and performance of applications.

Monitoring and Management
The integration provides enhanced monitoring capabilities, allowing users to track the performance and health of their Kubernetes clusters in real-time.

Supporting Tanzu Repository Packages
The integration supports Tanzu repository packages, allowing users to easily manage and deploy applications and services from VMware's Tanzu catalog.

Integrating CNI & CSI
Support Container Network Interface (CNI) Integration to enable seamless communication and connectivity between containers and external networks and Container Storage Interface (CSI) Integration to expose more storage options & make the system more secure & reliable.

Category	Item	Initial Charge	Monthly Charge
Master Node *	Medium (< 10 worker nodes):	Free of Charge	1.720.000 VND/ month
	Medium-HA:	Free of Charge	5.160.000 VND/ month
	Large (>= 10 worker nodes):	Free of Charge	3.440.000 VND/ month
	Large-HA:	Free of Charge	10.320.000 VND/ month
Worker Node **	Please refer to the cost of HI GIO Public Cloud and Block Storage		-
Persistent volume	Please refer to the cost of Block Storage		-
Load balancer/ Ingress	Please refer to the cost of the NW add-on's Load Balancer		-

* If the number of Worker nodes is over 10 nodes, please choose Large
** Minimum spec of worker node is: 2vCPU / 4GB Mem / 20GB disk for OS

Hotline: 1900 6973

Website: higiocloud.vn

SCAN ME

Thank You!

TAKE YOUR
IT INFRASTRUCTURE
TO THE NEXT LEVEL