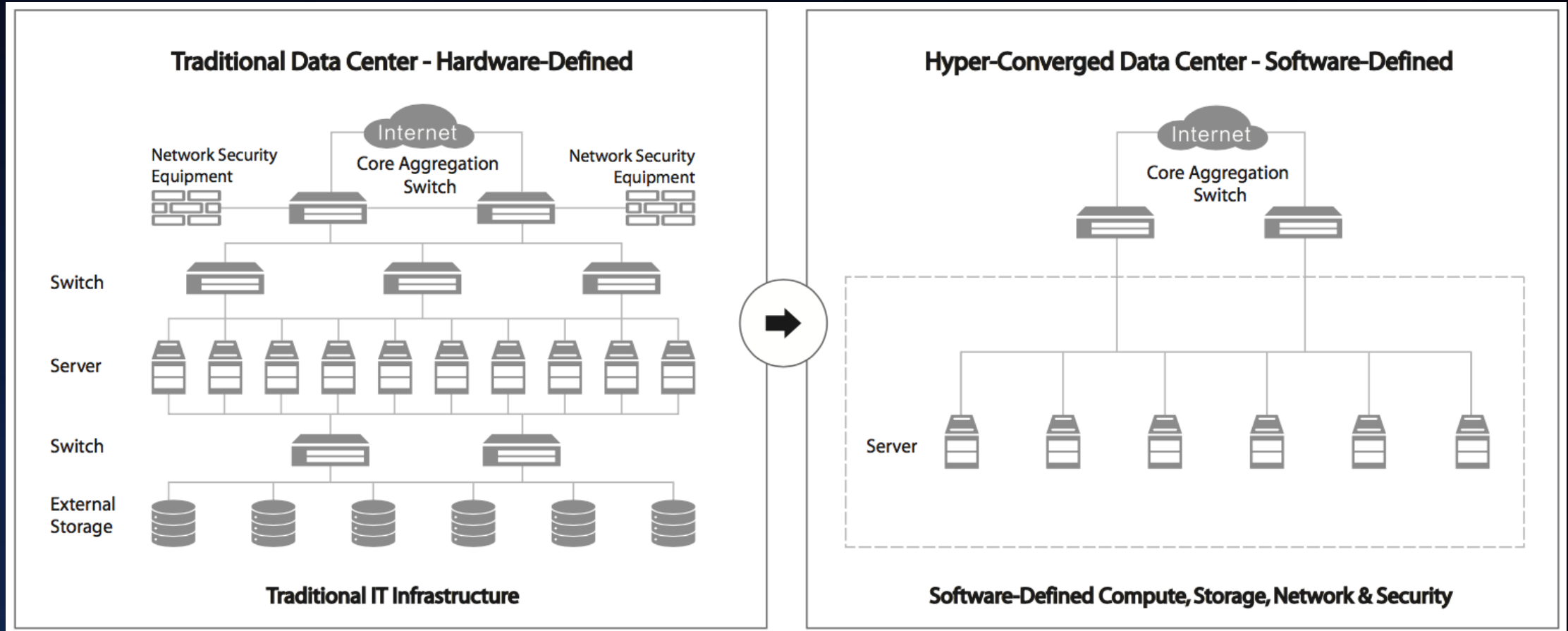


Sangfor aCloud Hyper-Converged Infrastructure (HCI)

โครงสร้างพื้นฐานด้าน IT เพื่อความต่อเนื่องทางธุรกิจ

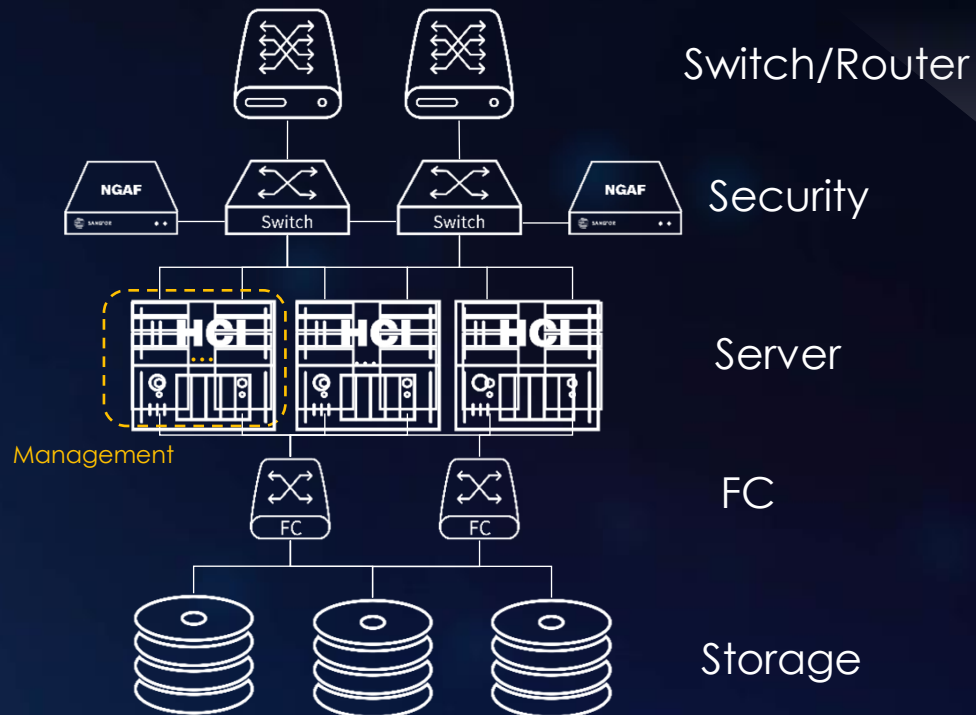
Tawatchai Prachuapruang
Consult Product Manager





Hyper-Converged (HCI) คืออะไร ?



HCI Enables The Ultimate Solution

Sangfor Unified Cloud DC



aSV	aSAN	aNET	aSEC
			
compute	storage	networking	security



World's first 3rd gen HCI platform

Hyper-Converged (HCI) คืออะไร ?



World HCI platform

aSV



compute

aSAN



storage

aNET



networking

aSEC



security



ทำไมลูกค้าถึงเลือกใช้งาน
SANGFOR

Sangfor HCI Key Values



Simplified



Stable



Secure

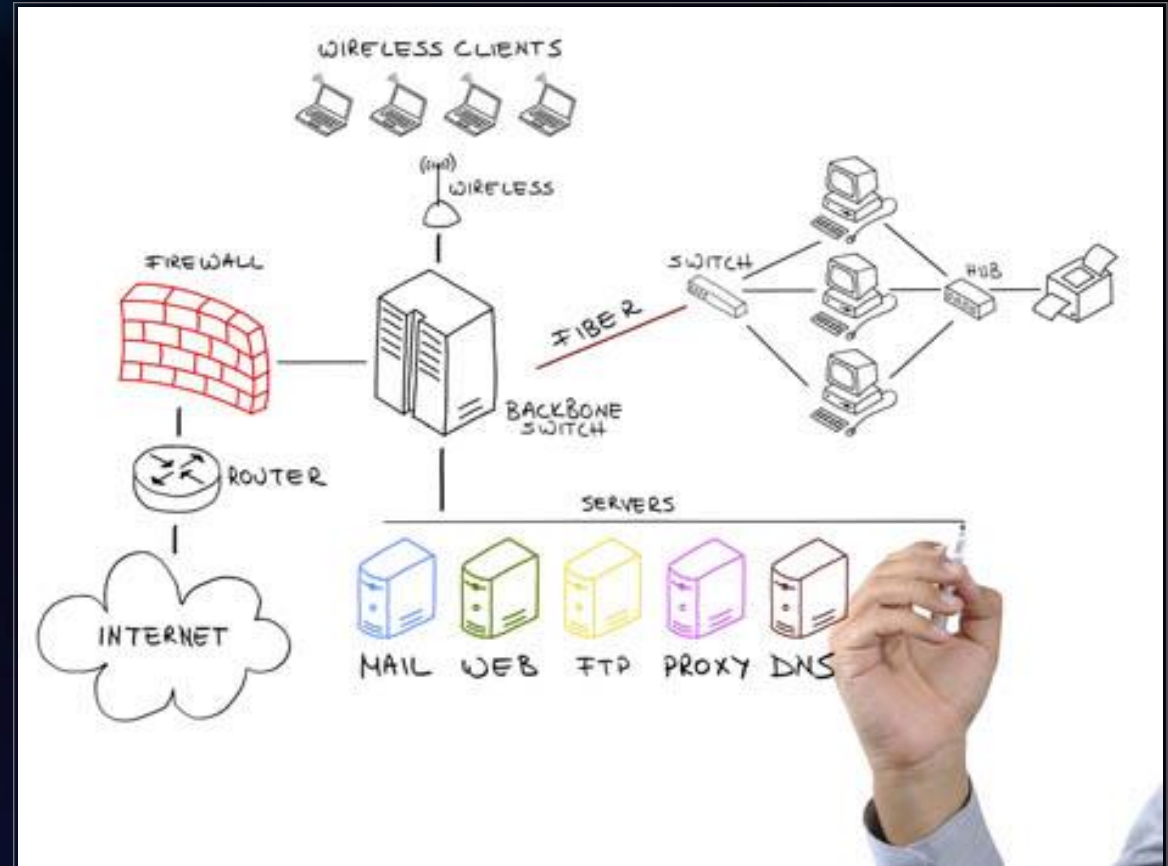


Easy-to-use

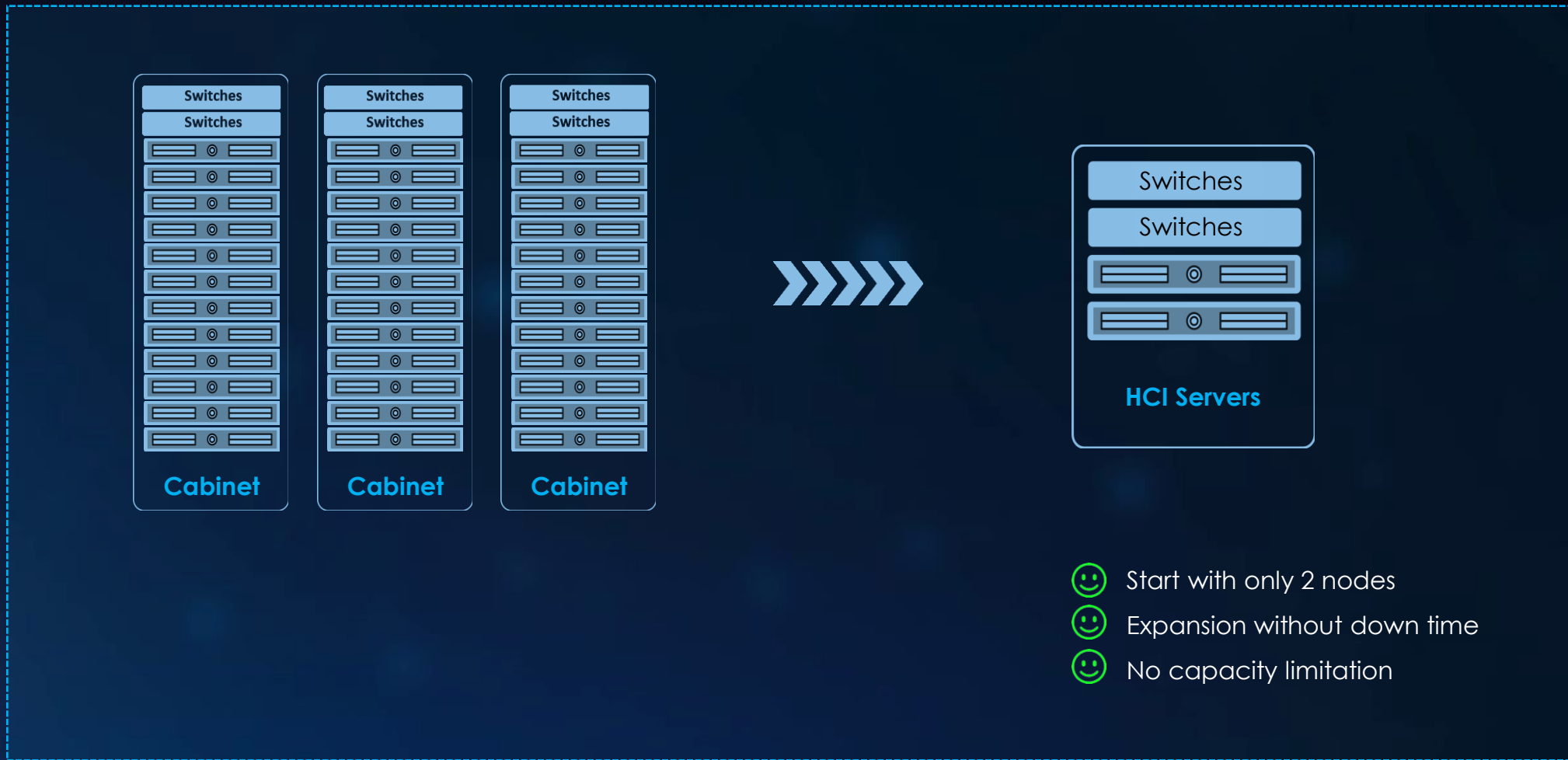


Simplified

I การ Solution ไม่ซับซ้อน และใช้งานง่าย

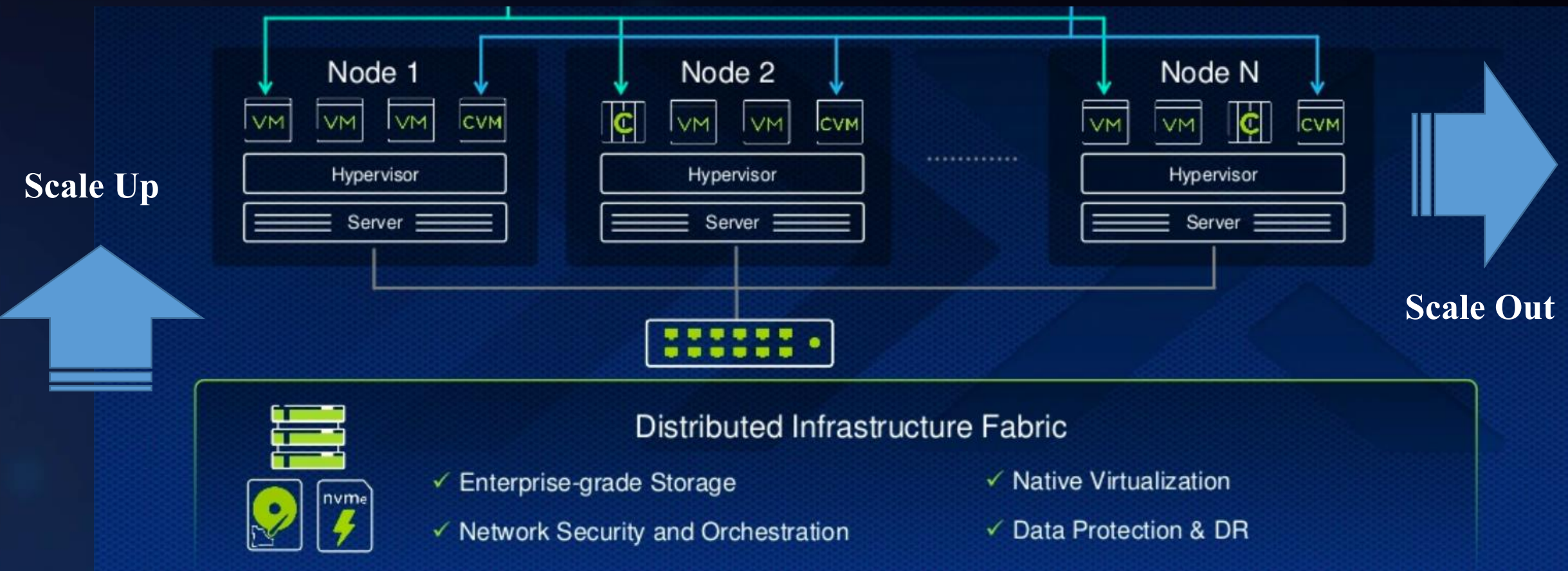


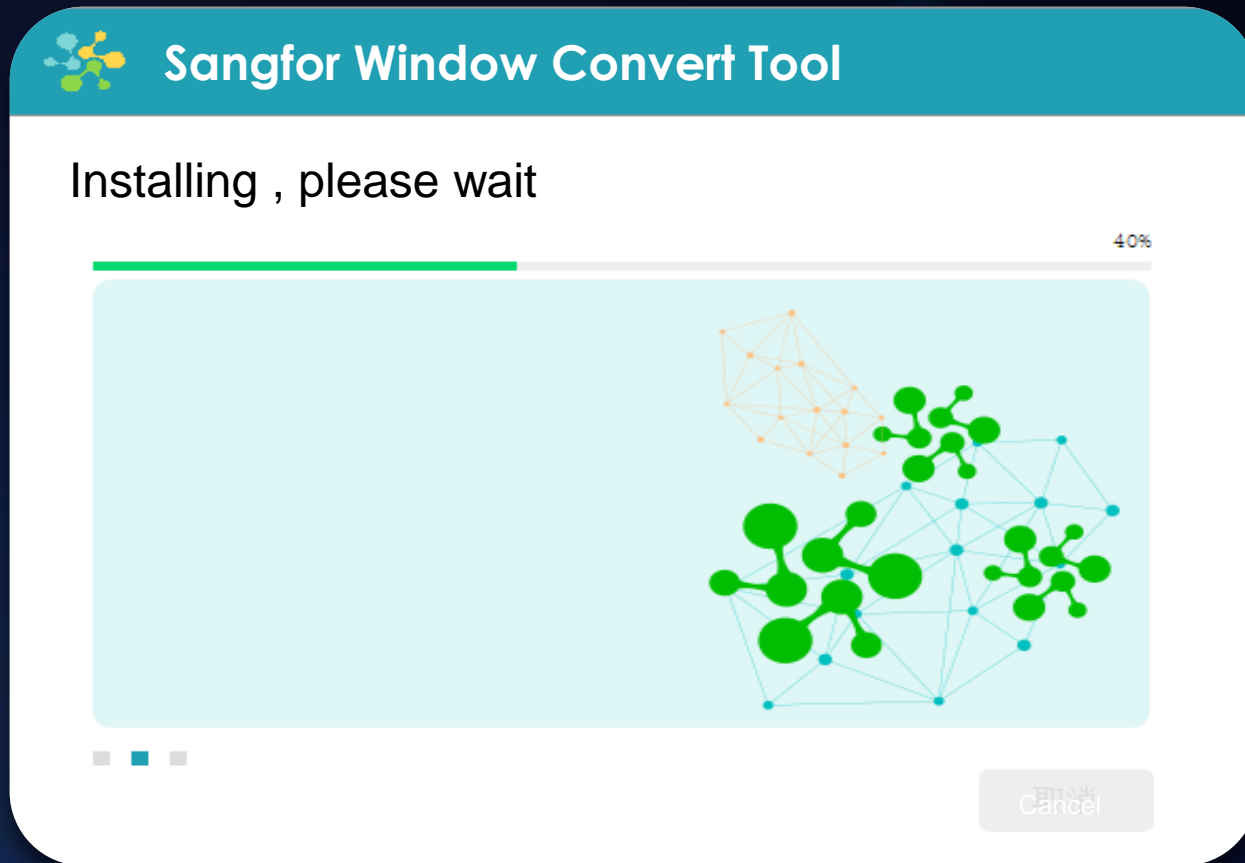
Pay as you growth with Scale Up/Out



Hyper-Converged (HCI) คืออะไร ?

Gen3rd





VM to VM V2V



Supporting VMware, Xen, Hyper-V, KVM
Files format: OVA, VMA, OVF, VMDK, MF

Physical to VM P2V



Mainstream OS supported, conversion rate 60 MB/S

Redefine Network Operation with WYDIWYG

The screenshot displays the SANGFOR HCI Network Management Interface. The top navigation bar includes 'Home', 'Compute', 'Networking', 'Storage', 'Nodes', and 'System'. A 'Health Check' button shows a warning icon with '72' and the user 'admin Super Admin'. The main interface features a toolbar with 'Exit', 'Refresh', 'Test Connectivity', 'Devices', 'Templates', 'Distributed Firewall', and 'Recycle Bin'. A left sidebar lists various network components: VM, Edge, Switch, Router, NGAF, IAM, ADC, SSL VPN, Monitor Center, Database Audit Security, and WOC. The central area shows a network topology diagram with nodes like 'Train3_AF_Internet Route', 'Train3_AF_Switch', and 'Train3_AF_HQ'. A right sidebar titled 'Summary - Network Devices' provides a detailed overview of the network's status.

Summary - Network Devices	
Edges	1
Switches	124
Routers	55
ADCs	1 / 1
NGAF Appliances	16 / 16
IAM Appliances	11 / 11
SSL VPN Appliances	1 / 1
VMs	82 / 114
<hr/>	
Running	291
Stopped	32
<hr/>	
Alarms	0
Failed	0
<hr/>	
Not Applied	0
Applying	0

What you draw is what you get !

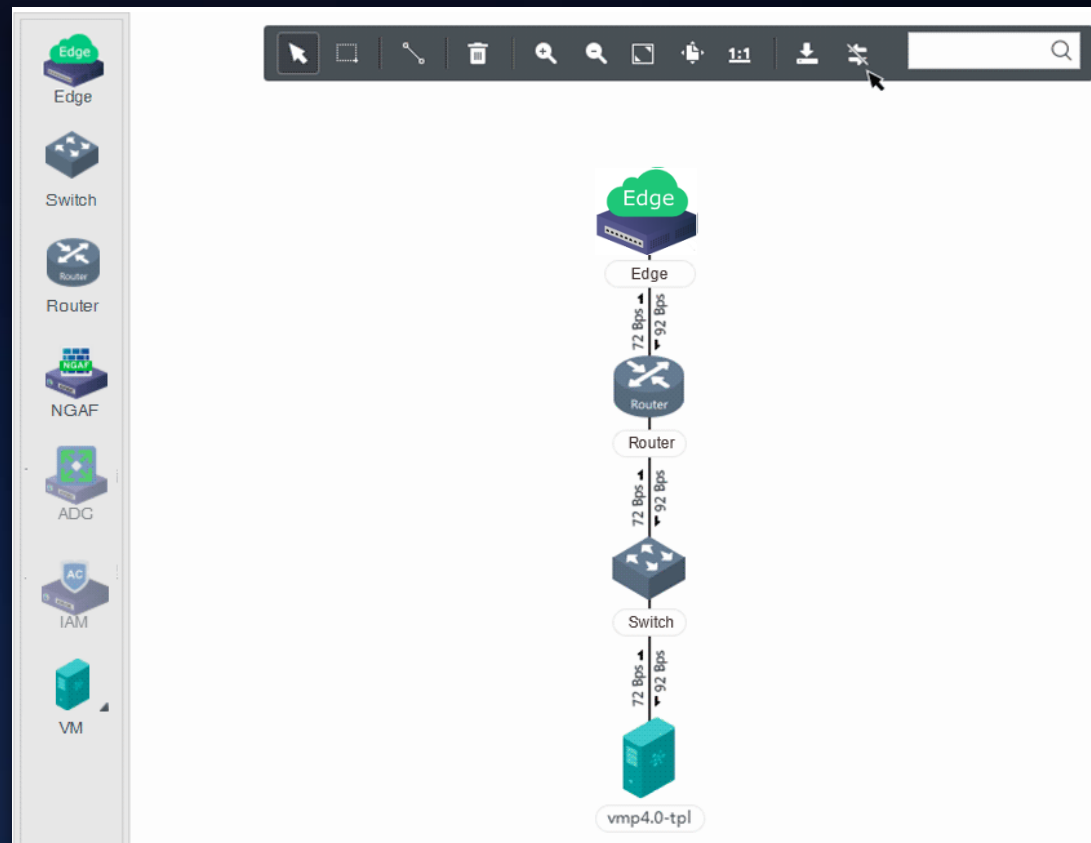


The screenshot displays the Sangfor HCI Network Management Interface. The main area shows a network topology diagram with the following components and connections:

- Edge1** (Edge device) connected to **Trunk_All** (Trunk link).
- Trunk_All** connected to **router1** (Router).
- router1** connected to **switch1** (Switch).
- switch1** connected to **App_Svr_1** (Application Server) and **DB_svr_2** (Database Server).
- redhat** (Server) connected to **router1**.
- NGAF1** (NGAF Appliance) is shown as a separate device.

The right sidebar displays a **Summary - Network Devices** table:

Device Type	Count
Edges	1
Switches	1
Routers	1
ADCs	0
NGAF Appliances	1 / 1
IAM Appliances	0
SSL VPN Appliances	0
VMs	0 / 3
Running	4
Stopped	3
Alarms	1
Failed	0
Not Applied	0
Applying	0



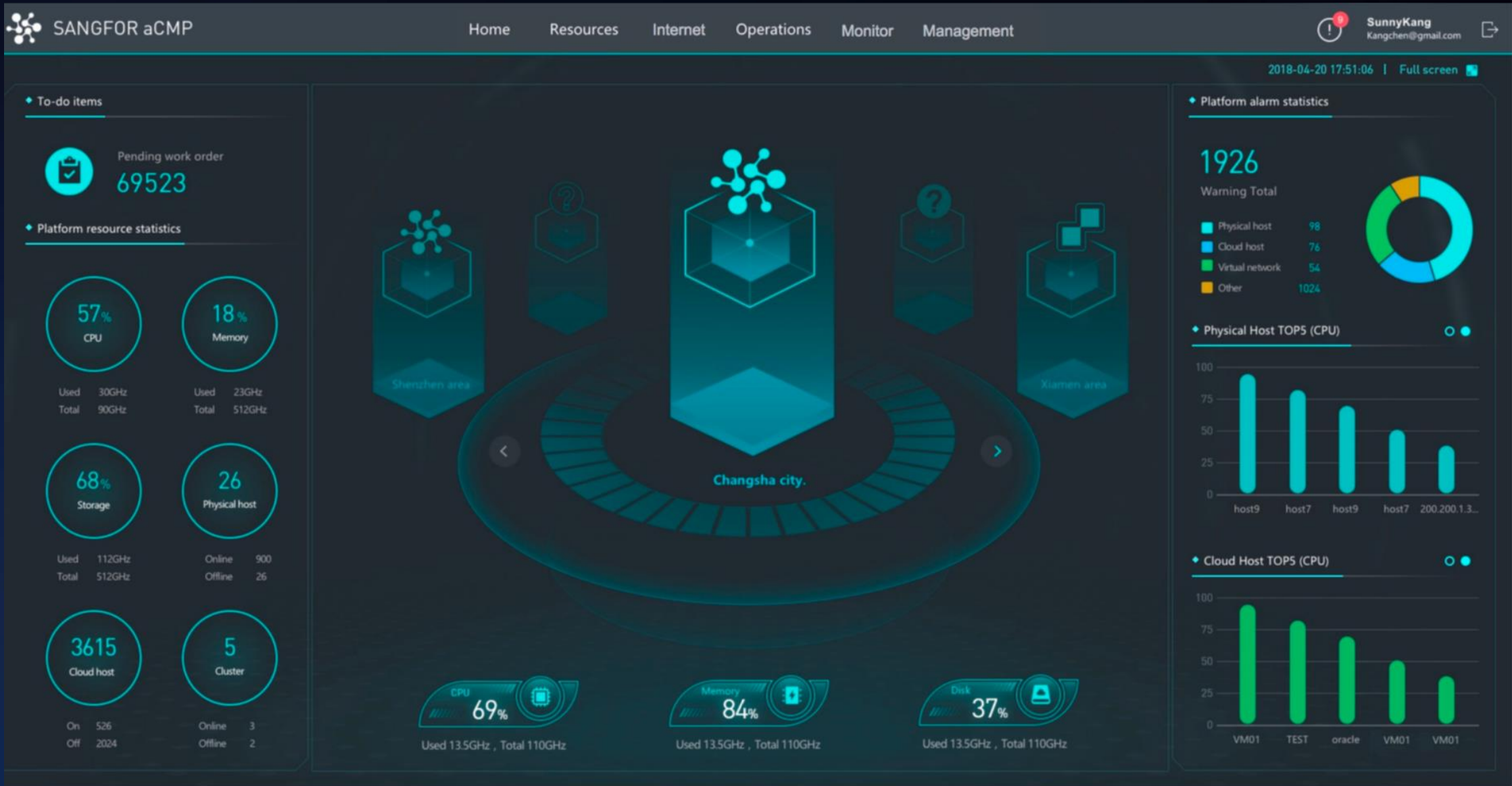
Test Connectivity

Virtual Machine: ftp_cli-192.168.102.106 → 192.168.102.5 Start

Results

- 1 Send packet successfully** ✓
 - Virtual Machine: ftp_cli-192.168.102.106
 - Outgoing Interface: eth0 : 192.168.102.106
 - Host: 172.28.121.15
 - Cross Any Host: No
- 2 The switch does not allow data forwarding. Please check ACL on the switch**
 - Switch: Switch2
 - Incoming Interface: Trunk : 1
 - Host: 172.28.121.15
 - Cross Any Host: No

Built-in Multi Datacenter Management



Built-in Multi Datacenter Management



SANGFOR aCMP
SANGFOR aCloud aCMP (V5.7)

[Home](#)
[Resources](#)
[Service Availability](#)
[Operations Center](#)
[Monitoring](#)
[System](#)

344
admin

Refresh
model:

cluster 1

cluster 2

Ali cloud

VMware

Configured ●

abnormal ●

unconfigured ●

High availability (HA)

The minute the node's hardware, storage or network fails, virtual machines are recovered seamlessly onto another node to ensure service continuity.

VMS with HA
56 / 108

warnings: 12
All Alarms

Object: Oracle Databa

Description: Auto-backup failed due to insufficient storage space
Auto-backup failed due to insufficient storage space

Time: 2018-01-19 14:02:58

Object: Oracle Databa

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Time: 2018-01-19 14:02:58

Getting Started
 Official Site
 Sangfor Community
 Learn More About aCMP
 Learn More About aCMP

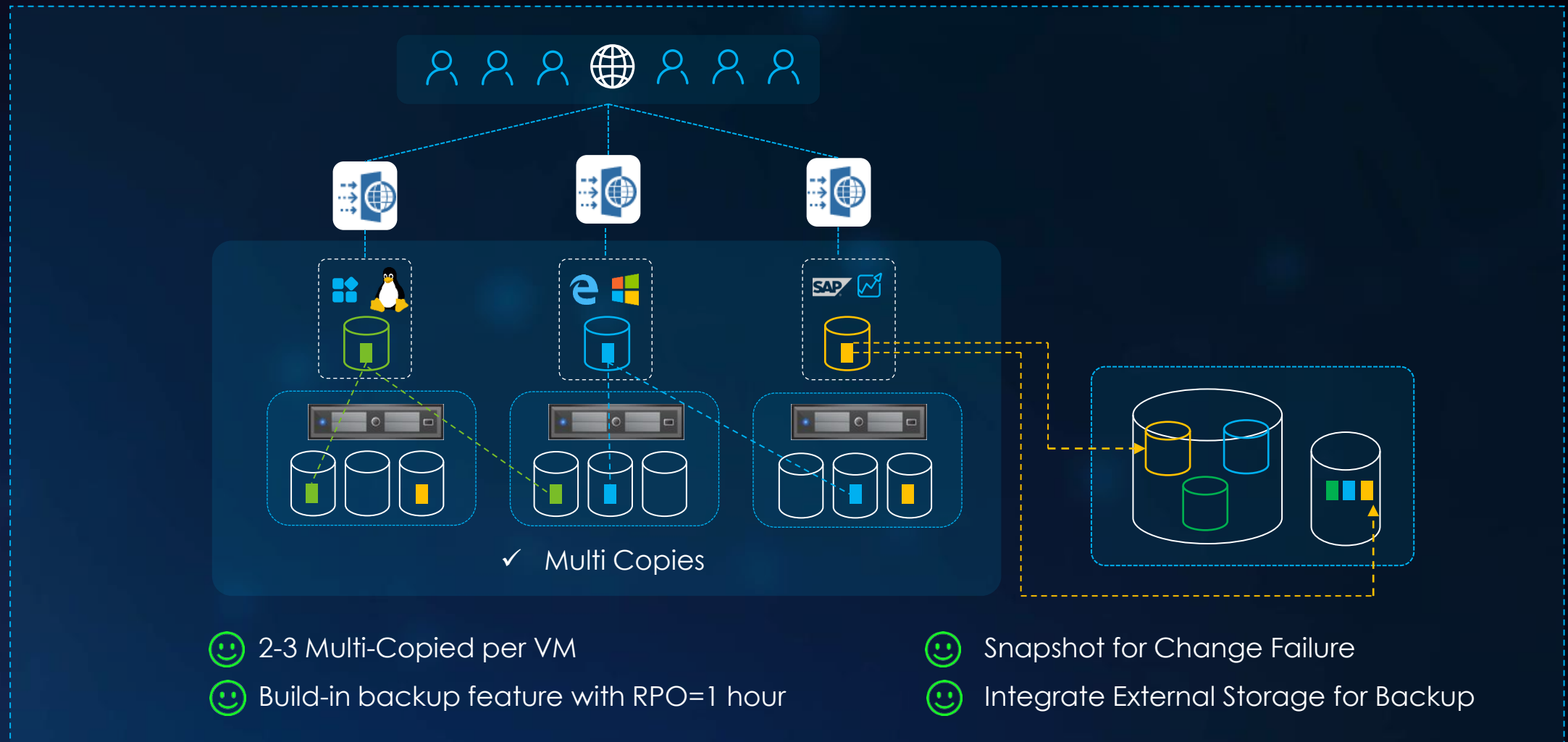


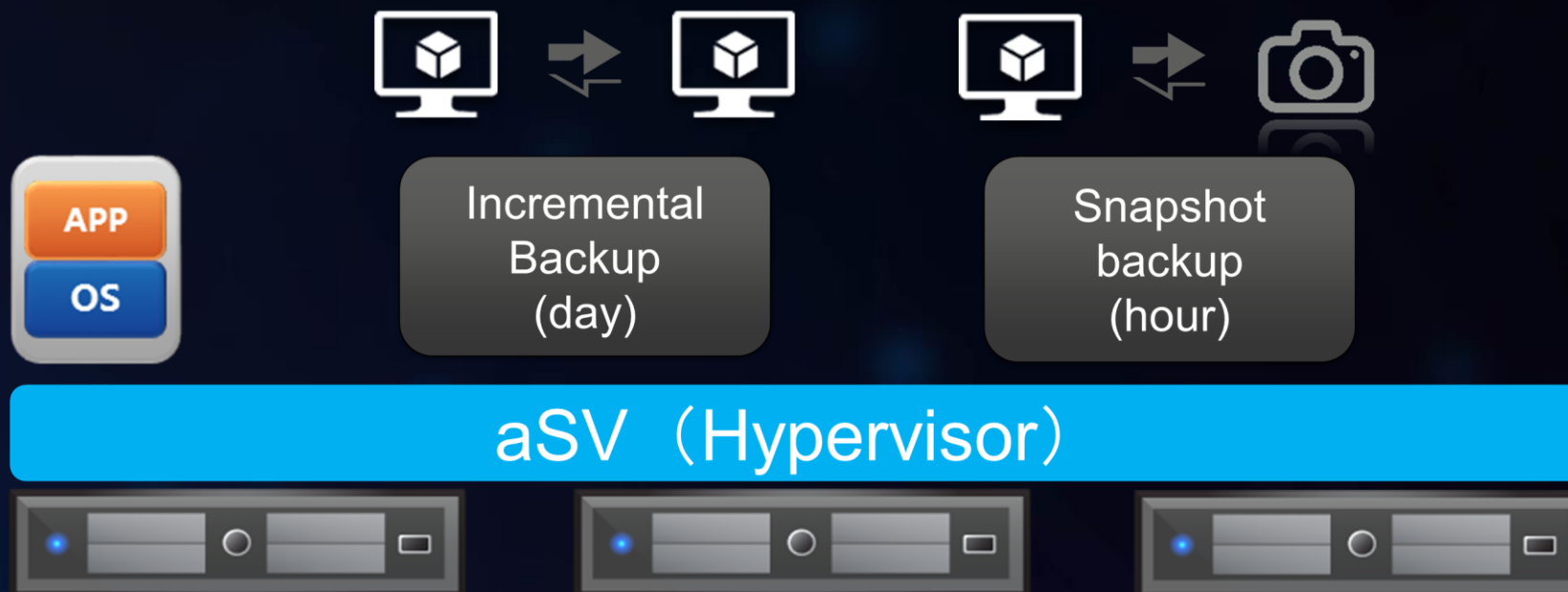
Stable

II ระบบมีประสิทธิภาพ และทำงานได้
อย่างต่อเนื่อง



Multi Copies & Built-in Backup





**Without Agent and Backup Software Backup Host!
Reducing Backup Costs!!**

Add New Policy ✕

1 Select Virtual Machine > 2 Backup Periodic > 3 Backup Directory > 4 VM Basics

Available

Expand All Collapse All Group Name

VM Name	
Virtual Machine	
IOPS	
<input checked="" type="checkbox"/> win7_auto_test_en	
<input type="checkbox"/> win7_auto_test_en0001	
<input type="checkbox"/> win7_auto_test_en0002	
<input type="checkbox"/> win7_auto_test_en0003	
<input type="checkbox"/> win7_auto_test_en0004	

Selected

Clear

VM Name	Delete
Virtual Machine	
IOPS	
win7_auto_test_en	✕

[Next](#)

Add New Policy ✕

1 Select Virtual Machine > 2 Backup Periodic > 3 Backup Directory > 4 VM Basics

Periodic: On weekly basis On daily basis On hourly basis

Start Time: Friday 23:00

Max Duration: 48 hour(s)






Retention Period: One month

- One week
- Two weeks
- Three weeks
- One month
- Two months
- Three months

Add New Policy ✕

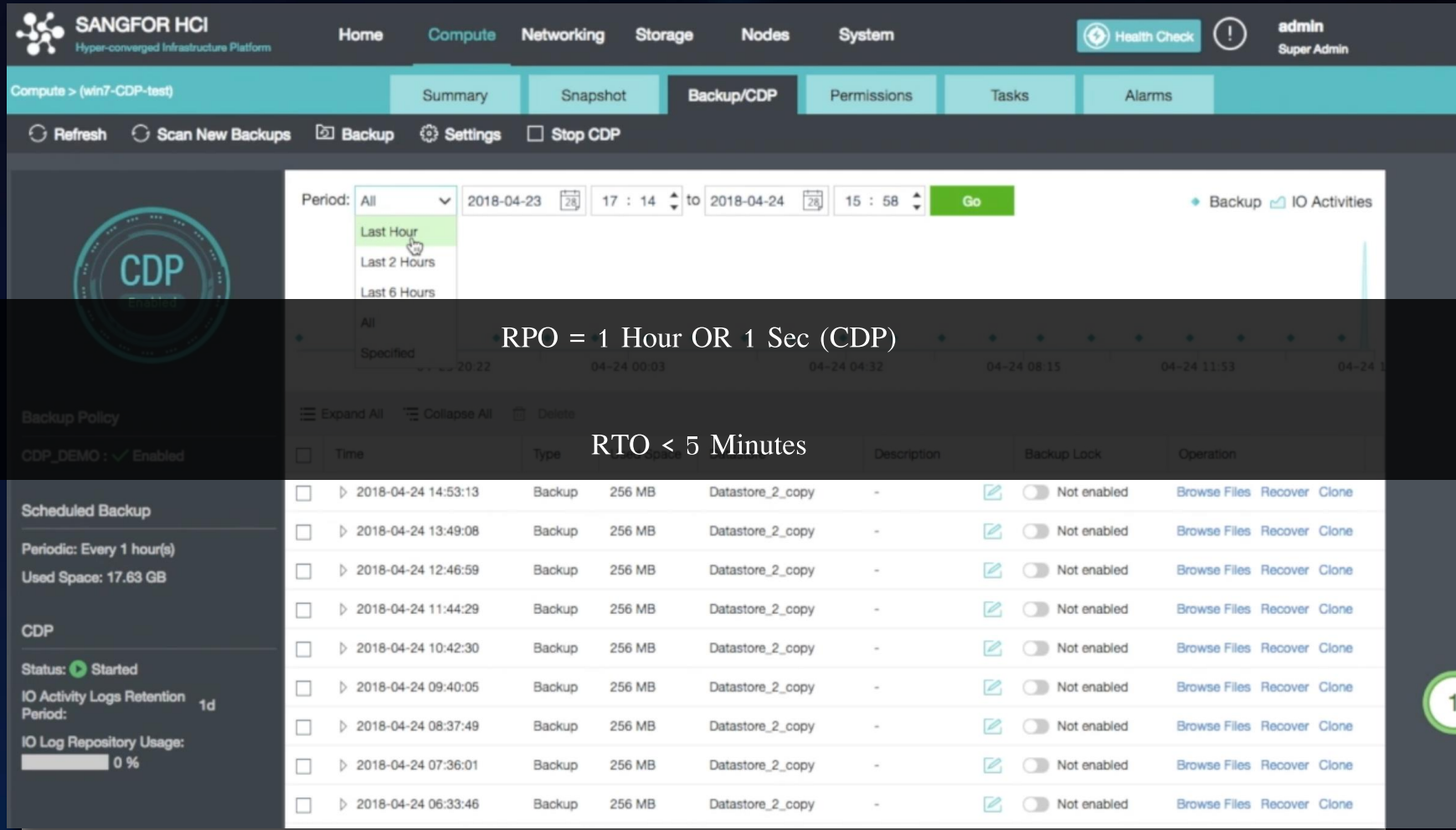
✔ Select Virtual Machine > ✔ Backup Periodic > 3 Backup Directory > 4 VM Basics

Backup Directory
backupstorage

Status	Datastore	Type	Total Cap...	Backup Directory(...	Max Read Sp...	Max Write Spe...
	backupstorage	iSCSI	8 GB	7.89 GB	79.5 MB/s	28.94 MB/s
	200.200.5.106/local	Local storage	124 GB	123.84 GB	449.82 MB/s	230.39 MB/s
	200.200.5.104/local	Local storage	124 GB	123.84 GB	333.68 MB/s	230.75 MB/s
	200.200.5.105/local	Local storage	124 GB	114.31 GB	447.89 MB/s	231.67 MB/s
	Datastore_2_copy	VIRTUAL STO...	5.41 TB	4.8 TB	110.49 MB/s	55.59 MB/s

Datastore is not found or available space is not enough? Add a new one in [Backup Storage Pool](#)

Back Next



The screenshot shows the SANGFOR HCI management console. The top navigation bar includes Home, Compute, Networking, Storage, Nodes, and System. The current page is 'Backup/CDP' for a specific compute node. A sidebar on the left shows 'Backup Policy' (CDP_DEMO: Enabled), 'Scheduled Backup' (Every 1 hour(s), Used Space: 17.63 GB), and 'CDP' status (Started). The main area features a search filter for 'Last Hour' and a table of backup operations.

Period: All | 2018-04-23 17:14 to 2018-04-24 15:58 | Go

Backup Policy: CDP_DEMO : ✓ Enabled

Scheduled Backup: Periodic: Every 1 hour(s), Used Space: 17.63 GB

CDP Status: Started

IO Activity Logs Retention Period: 1d

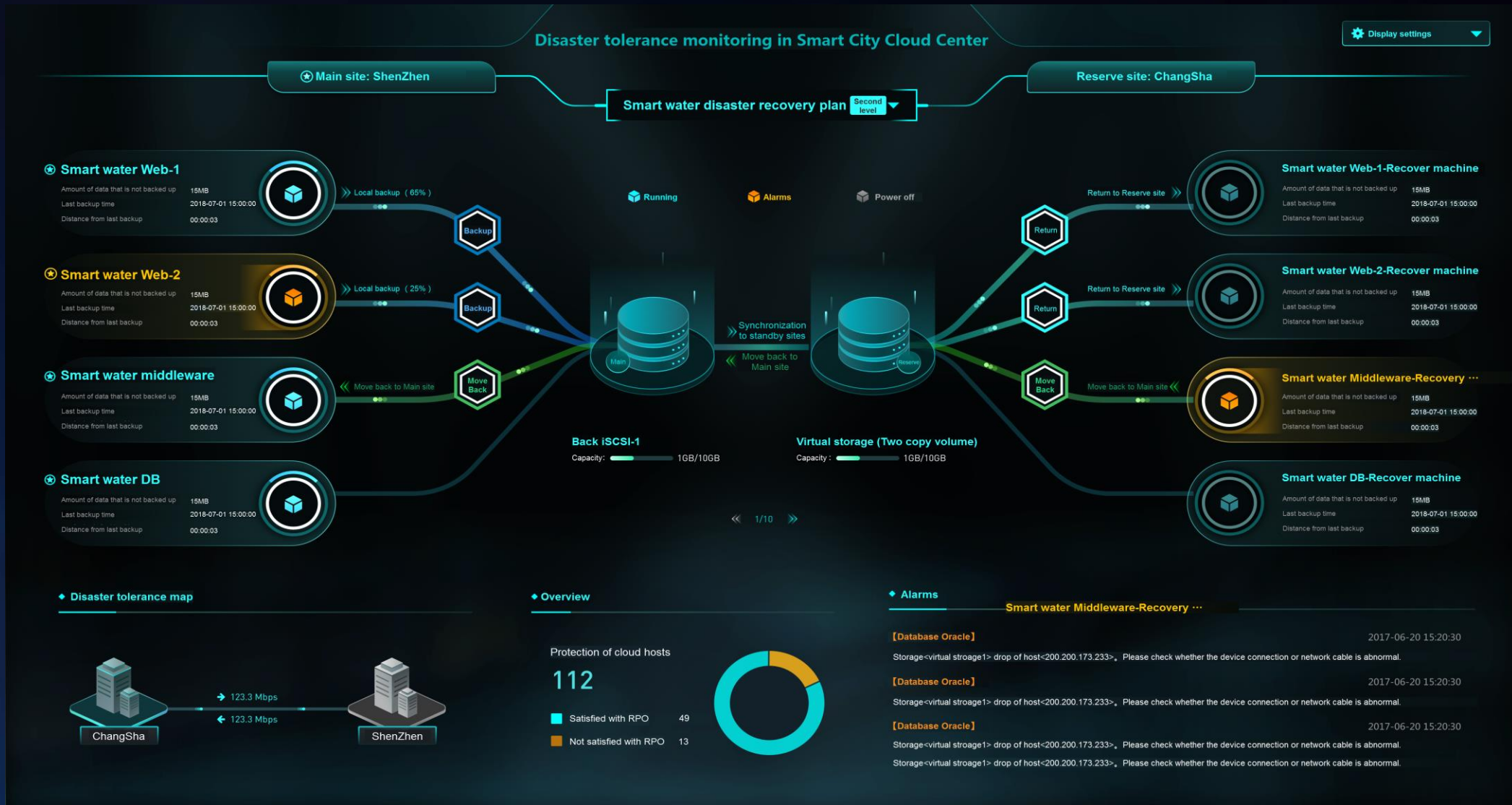
IO Log Repository Usage: 0%

RPO = 1 Hour OR 1 Sec (CDP)

RTO < 5 Minutes

Time	Type	Size	Destination	Description	Backup Lock	Operation
2018-04-24 14:53:13	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 13:49:08	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 12:46:59	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 11:44:29	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 10:42:30	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 09:40:05	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 08:37:49	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 07:36:01	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone
2018-04-24 06:33:46	Backup	256 MB	Datastore_2_copy	-	Not enabled	Browse Files Recover Clone



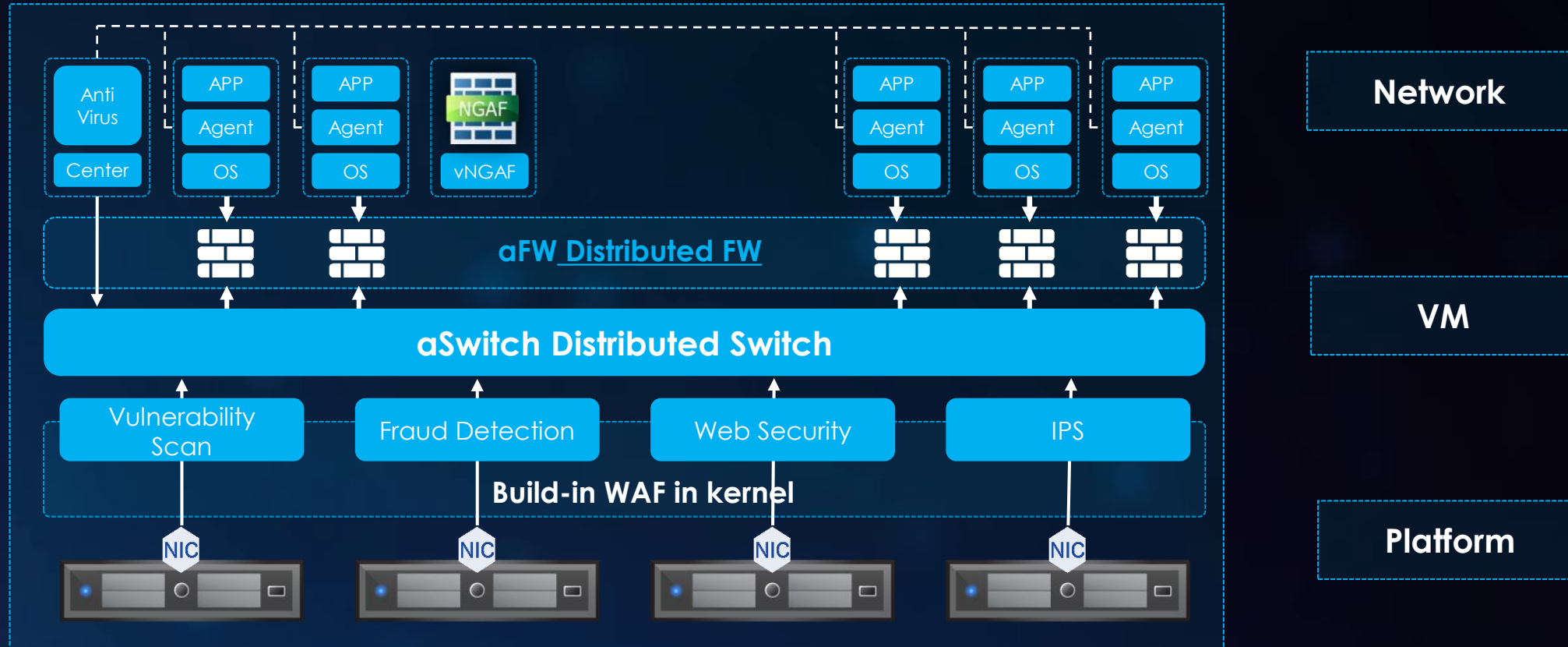




Secure

III มีความปลอดภัยสูง
ด้วย Software-Defined Security





- 😊 Protection for east-west traffic & north-south traffic
- 😊 Prevent from attacks spread such as ransomware



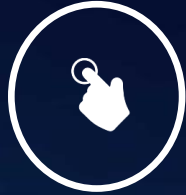
Easy-to-use

IV ง่ายต่อการใช้งาน





Easy to deploy



Easy to configuration



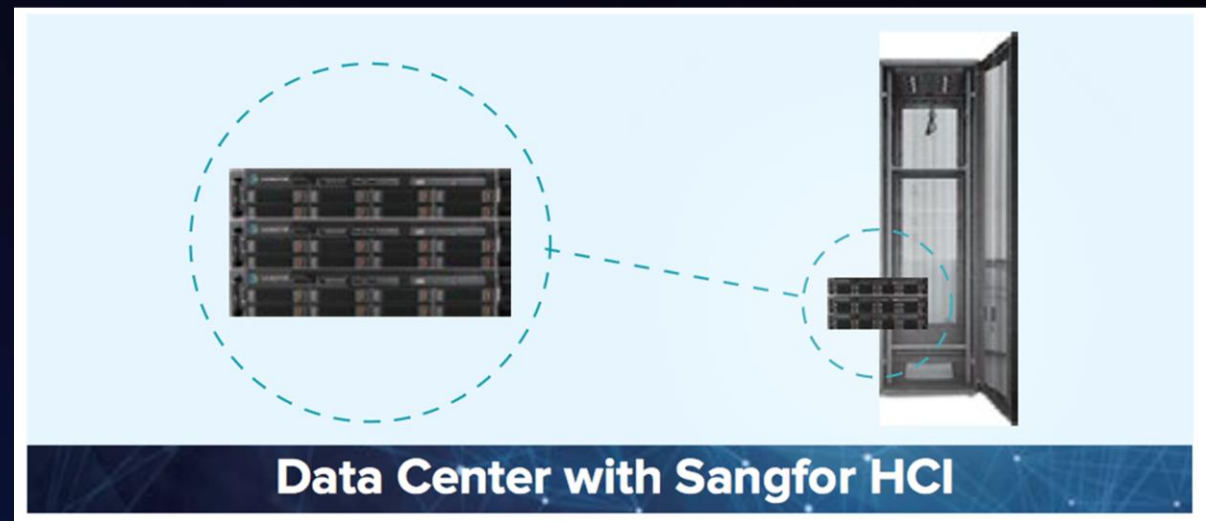
Easy to manage



Easy to contact service Support



- จำนวนอุปกรณ์ **Hardware** ลดลง อย่างเห็นได้ชัด ทำให้ผู้ใช้งานสามารถดูแลระบบได้ง่ายและมีประสิทธิภาพมากยิ่งขึ้น
- **Green IT** ลดต้นทุนด้าน ค่าไฟฟ้า, พื้นที่ในห้อง **DC** และการต่อ **MA** ลง สูงสุดถึง **90%**
- ปัญหาเรื่อง **Down time** ลดลง เพราะระบบมีการทำ **HA** ในตัว
- ประสิทธิภาพการใช้งานสูงขึ้นถึง **50%** เมื่อเทียบกับระบบเก่า



Site Reference





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The Federation of Savings and Credit Cooperatives of Thailand Limited



กรมกิจการสตรีและสถาบันครอบครัว
Department of Women's Affairs and Family Development

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การทางพิเศษแห่งประเทศไทย



สำนักงานสลากกินแบ่งรัฐบาล
THE GOVERNMENT LOTTERY OFFICE



Q&A

THANK YOU

