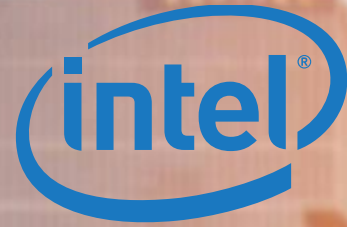


**Hewlett Packard  
Enterprise**



Intel Inside®.

Leistungsstarke Produktivität Outside.

# HPE Synergy – das Fundament für Ihre Next-Generation Hybrid IT Infrastruktur!

**Massimo Sallustio**

Senior Server Technology Consultant & Ambassador HPE Servers

[massimo.sallustio@hpe.com](mailto:massimo.sallustio@hpe.com)

# The FIVE ELEMENTS of HPE Synergy

Synergy Composer



Composable Frame



Composable Fabric



Composable Compute



Composable Storage

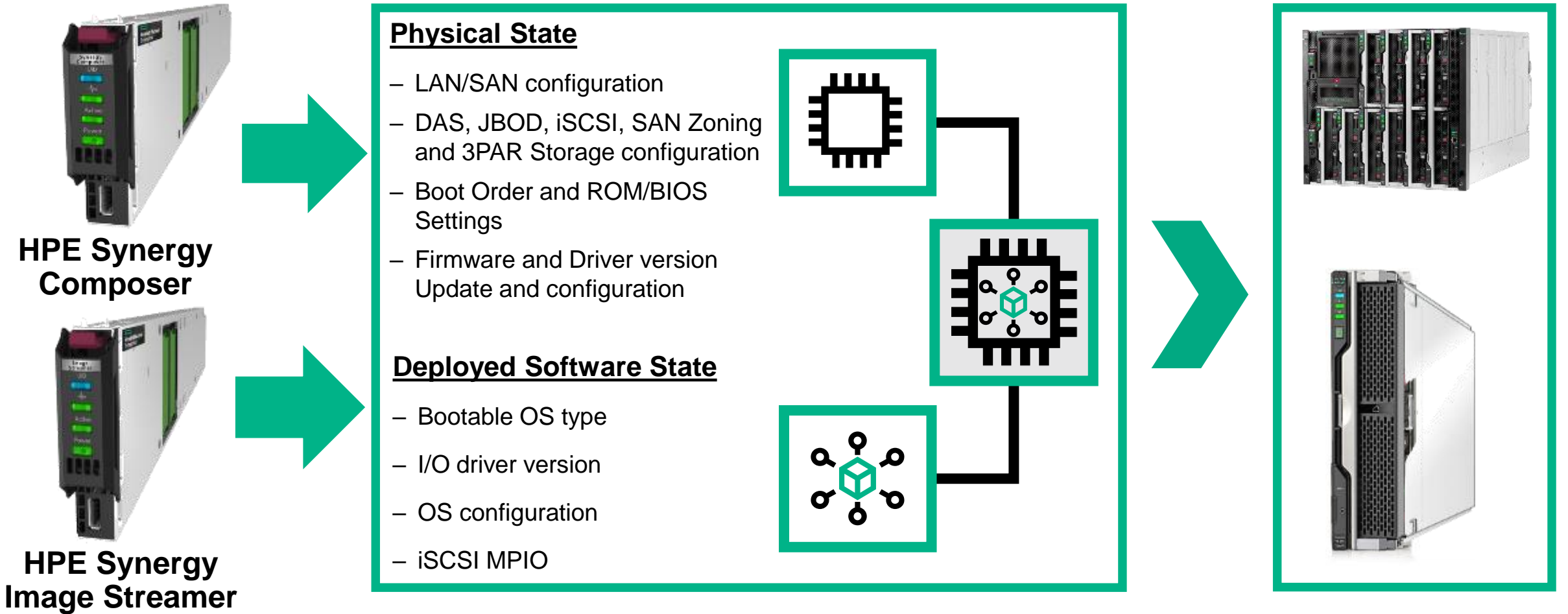




# Management Appliances

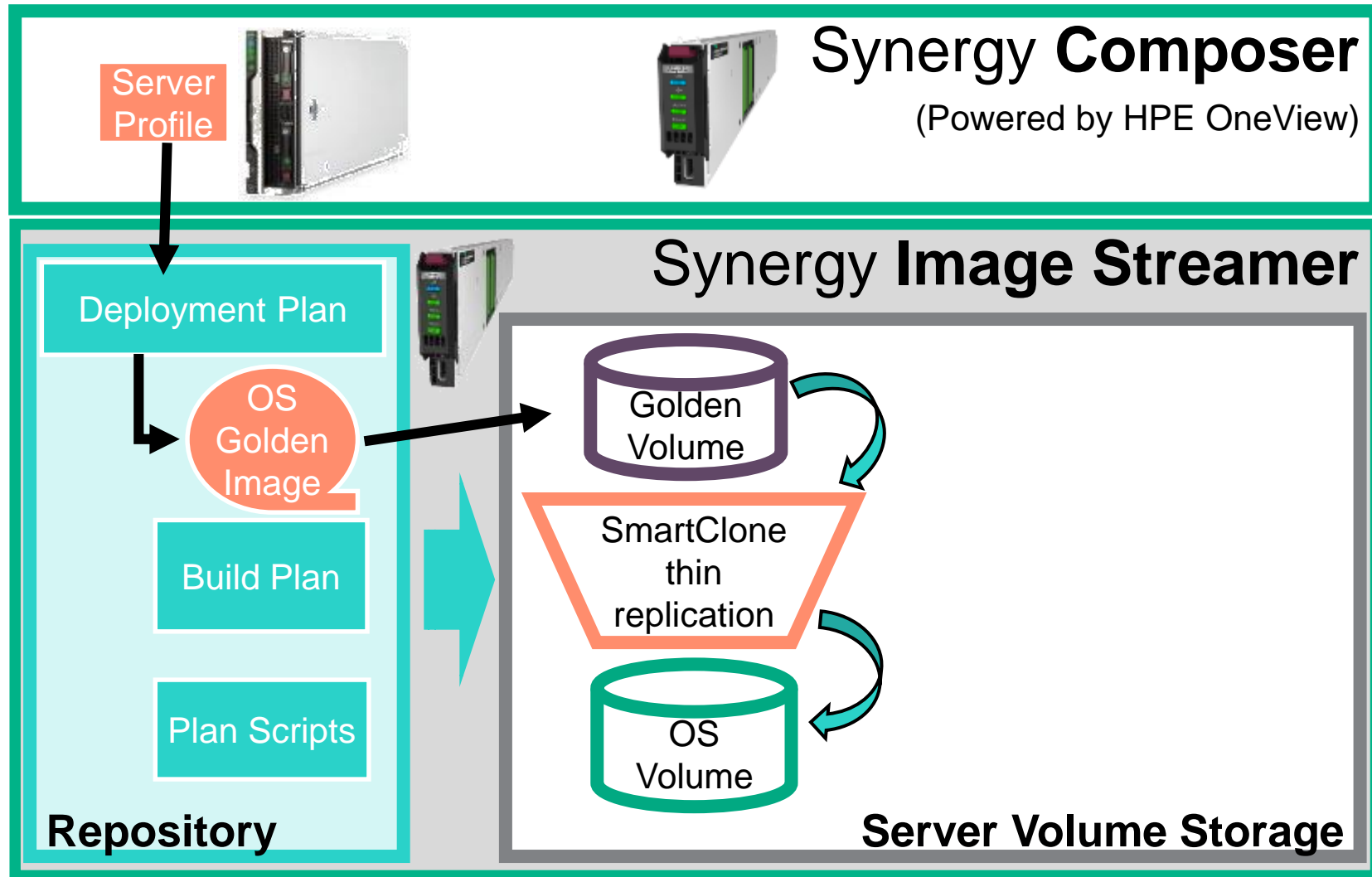


# Synergy Composer and Image Streamer

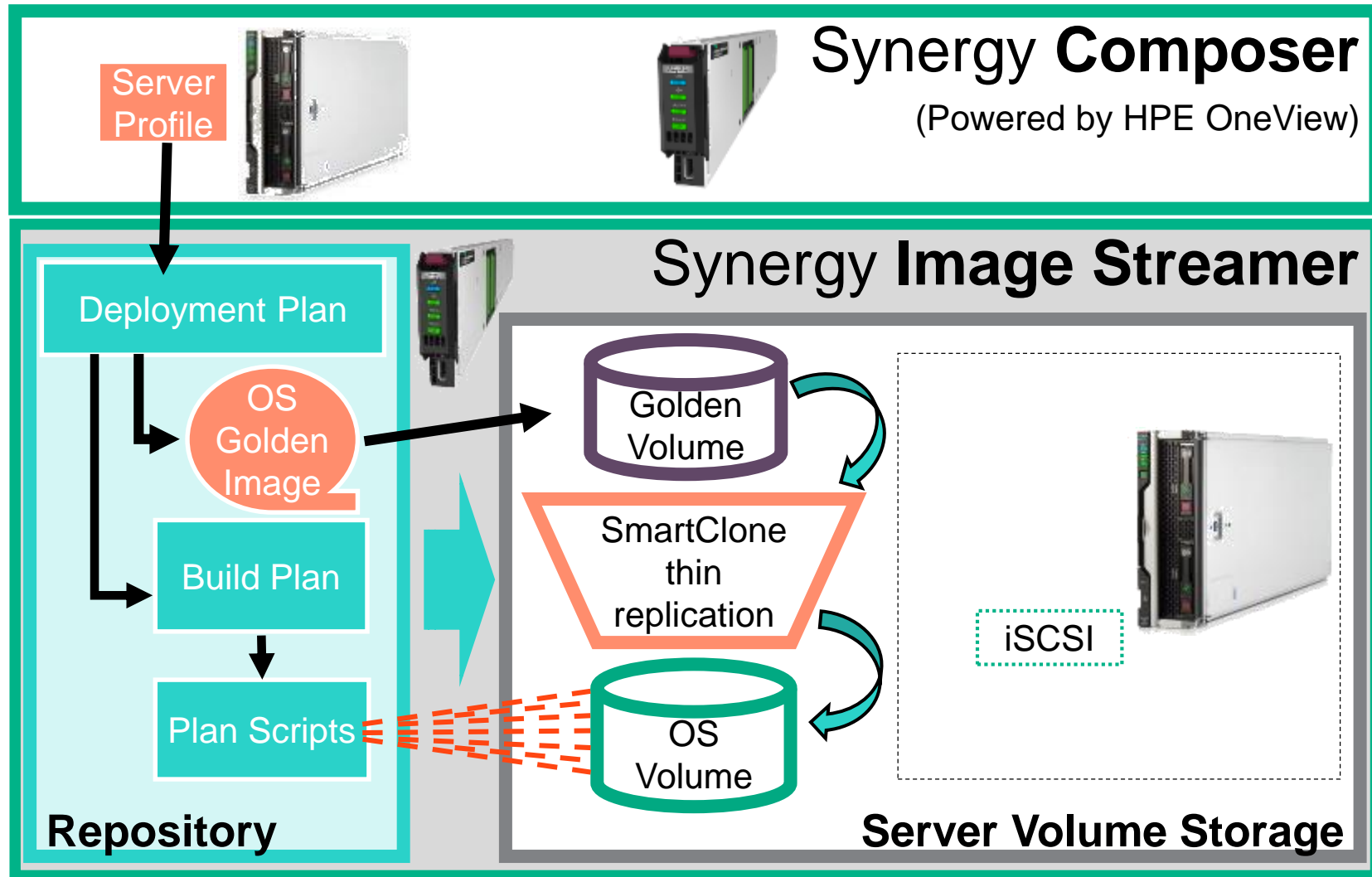


**Server and OS Deployment @ «Cloud Speed»**

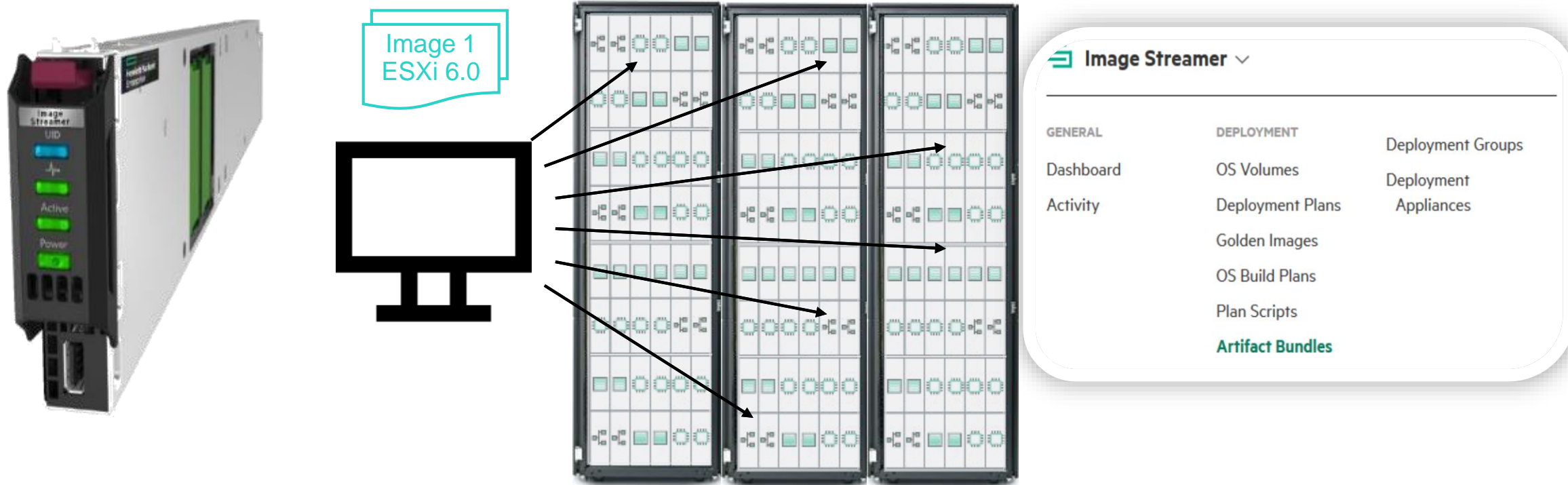
# HPE Synergy Image Streamer



# HPE Synergy Image Streamer

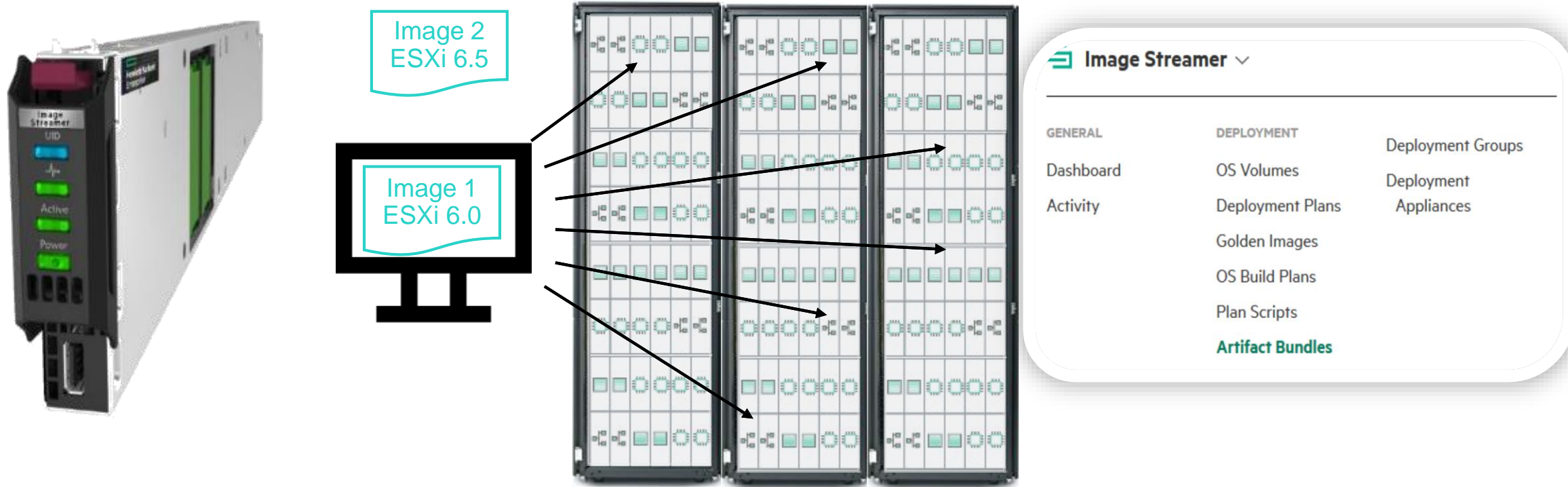


# HPE Synergy Image Streamer Solution



**New images ready to boot in 15 seconds**

# HPE Synergy Image Streamer Solution



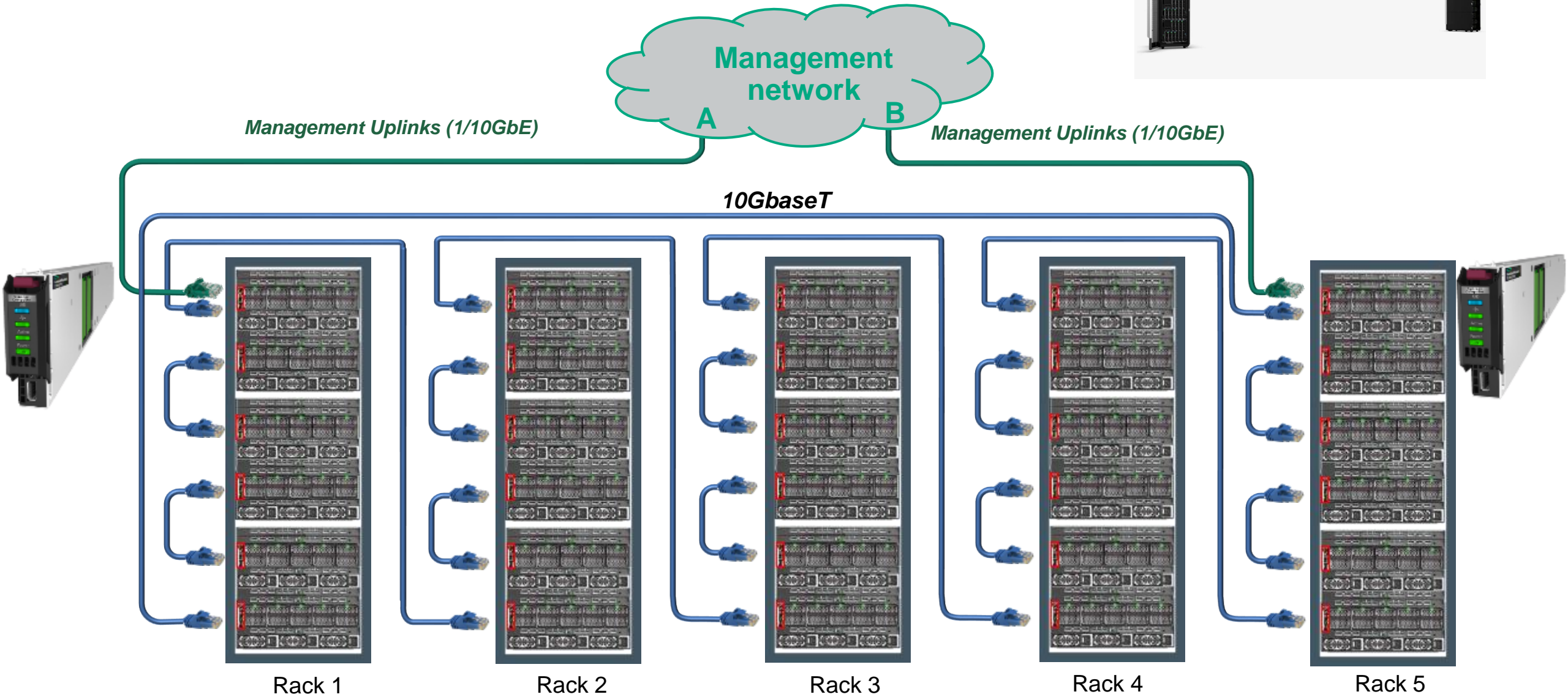
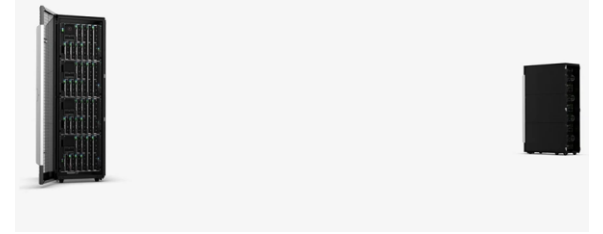
**New images ready to boot in 15 seconds**





# Management Architecture

# Management Architecture





# Composable Compute Modules

# HPE Synergy - Composable Compute Modules

Synergy 480 Gen9	Synergy 660 Gen9	Synergy 620 Gen9	Synergy 680 Gen9
2-CPU half-height	4-CPU full-height	2-CPU full-height	4-CPU full-height, double-wide
INTEL E5-2600v4 Serie	INTEL E5-4600v4Serie	INTEL E7-v4 Serie	INTEL E7-v4 Serie
3TB (24 DIMM)	6TB (48 DIMM)	6TB (48 DIMM)	12TB (96 DIMM)





# Synergy Fabrics



# HPE Synergy Composable and Traditional Fabrics

## Synergy Composable Fabric



Virtual Connect SE (Second Edition) 40Gb F8 Module  
and  
Interconnect Fabric Satellite Link Modules



HPE VC SE (Second Edition) 16Gb SAN Module

## Synergy Traditional Fabric



HPE Synergy 40Gb F8  
Switch Modules



Brocade 16Gb FC  
SAN Switch



10/40Gb  
Pass Through Module

# HPE Virtual Connect SE 40Gb F8 “Master” and Satellite Module

12 x 1/10/20Gb to compute modules



4 x 120Gb  
Satellite ports

6 x 40Gb  
“SAN/LAN”  
Uplink ports

2 x 40Gb “VC to VC”  
cluster ports (MLAG)

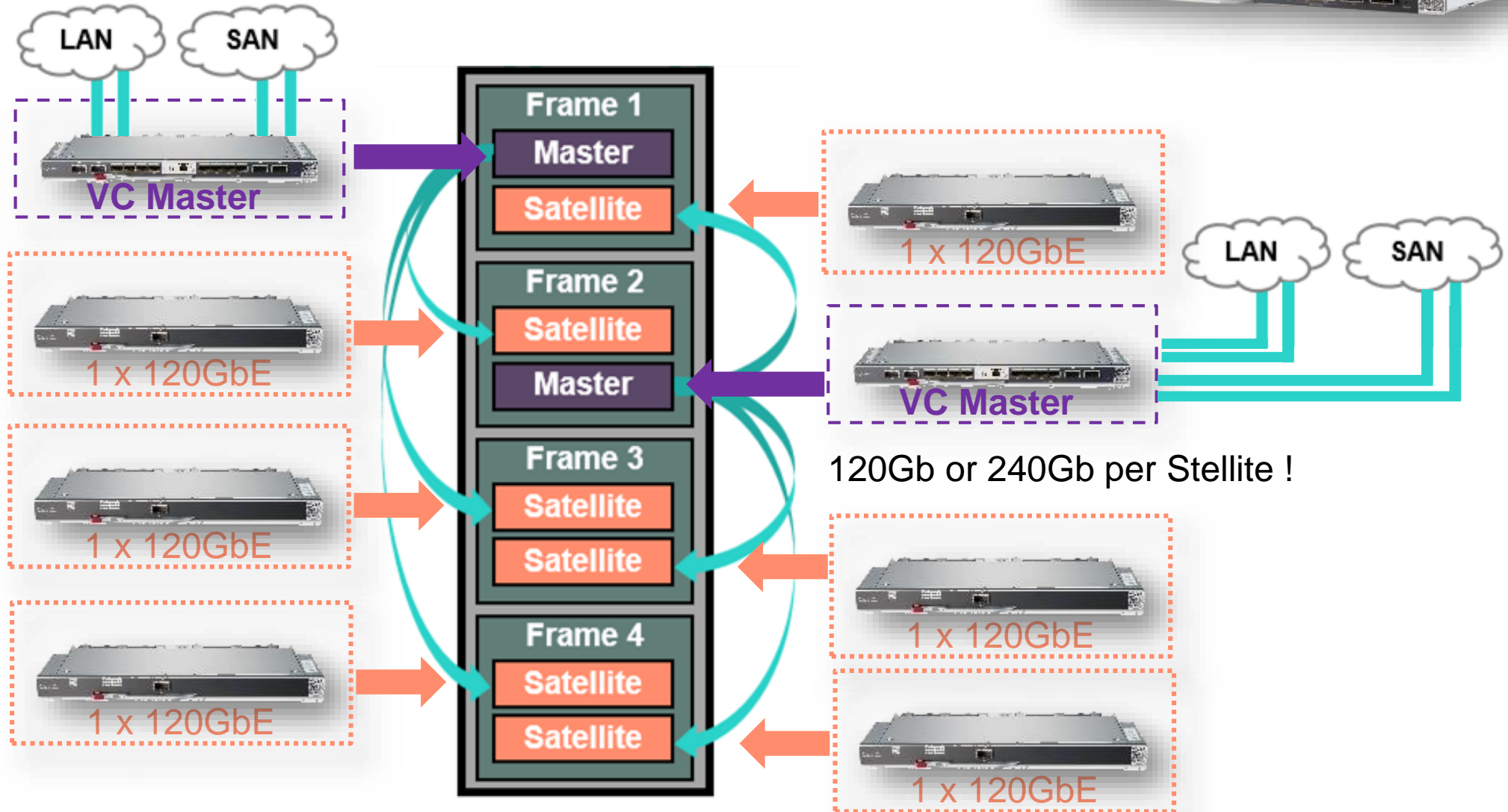
2 x 120Gb  
Satellite Module



1 x 120Gb  
Satellite Module



# Rack scale fabric architecture Example





# HPE Synergy Storage

# HPE Synergy D3940 Storage Module

Create Server Profile Template Local Storage ▾

**Local Storage**

Integrated storage controller mode managed manually

Mezz 1 storage controller mode managed manually

**Create Logical Drive** ?

Name

RAID level 

- RAID 1
- RAID 1 ADM
- RAID 10
- RAID 5
- RAID 6**

Number of physical drives

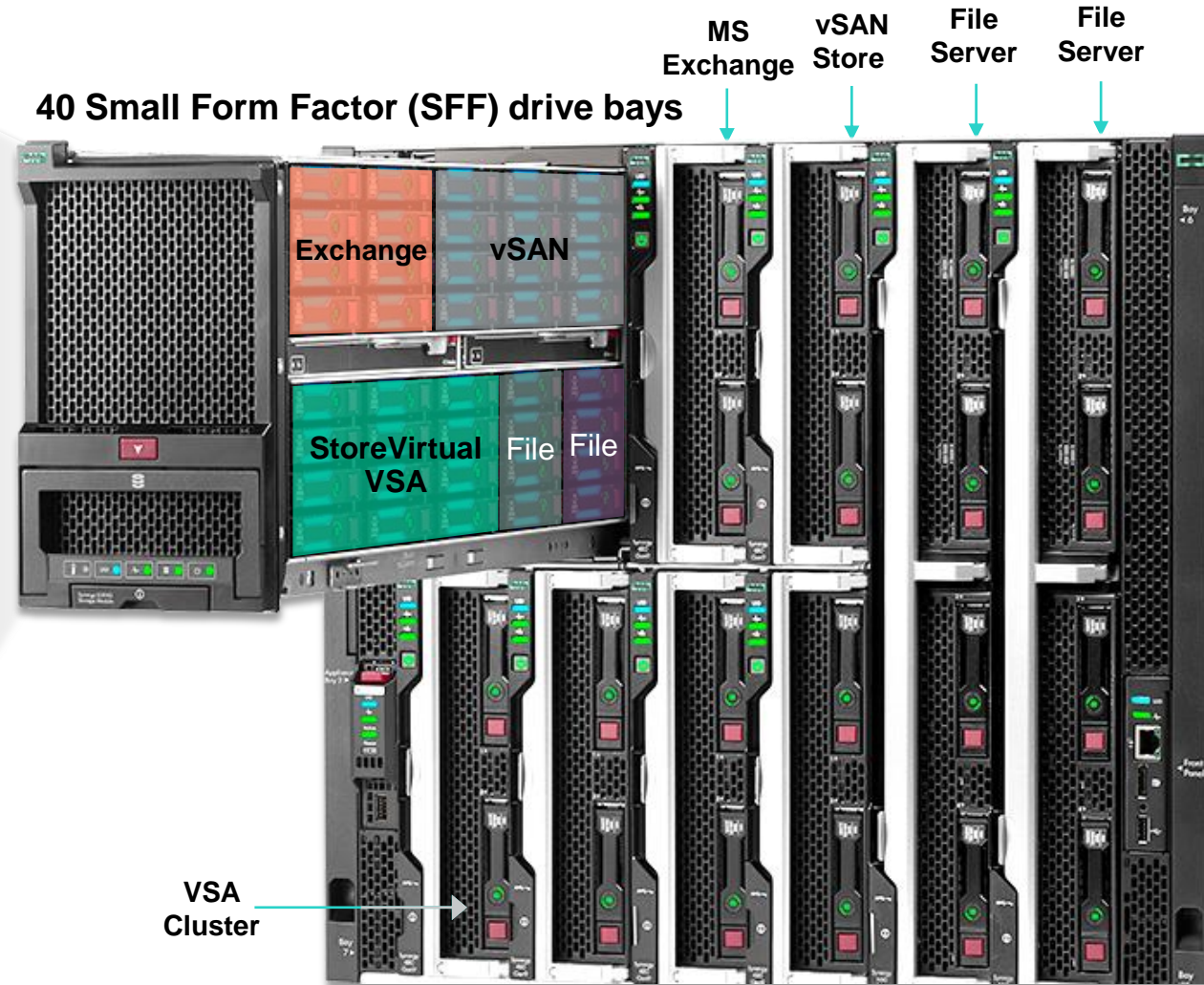
Minimum drive size  GB

Maximum drive size  GB

Drive technology

Changed: Maximum drive size to "600"

**Create** **Create +** **Cancel**





# Flexible Capacity - Wide Range of Uses and Workloads

Database

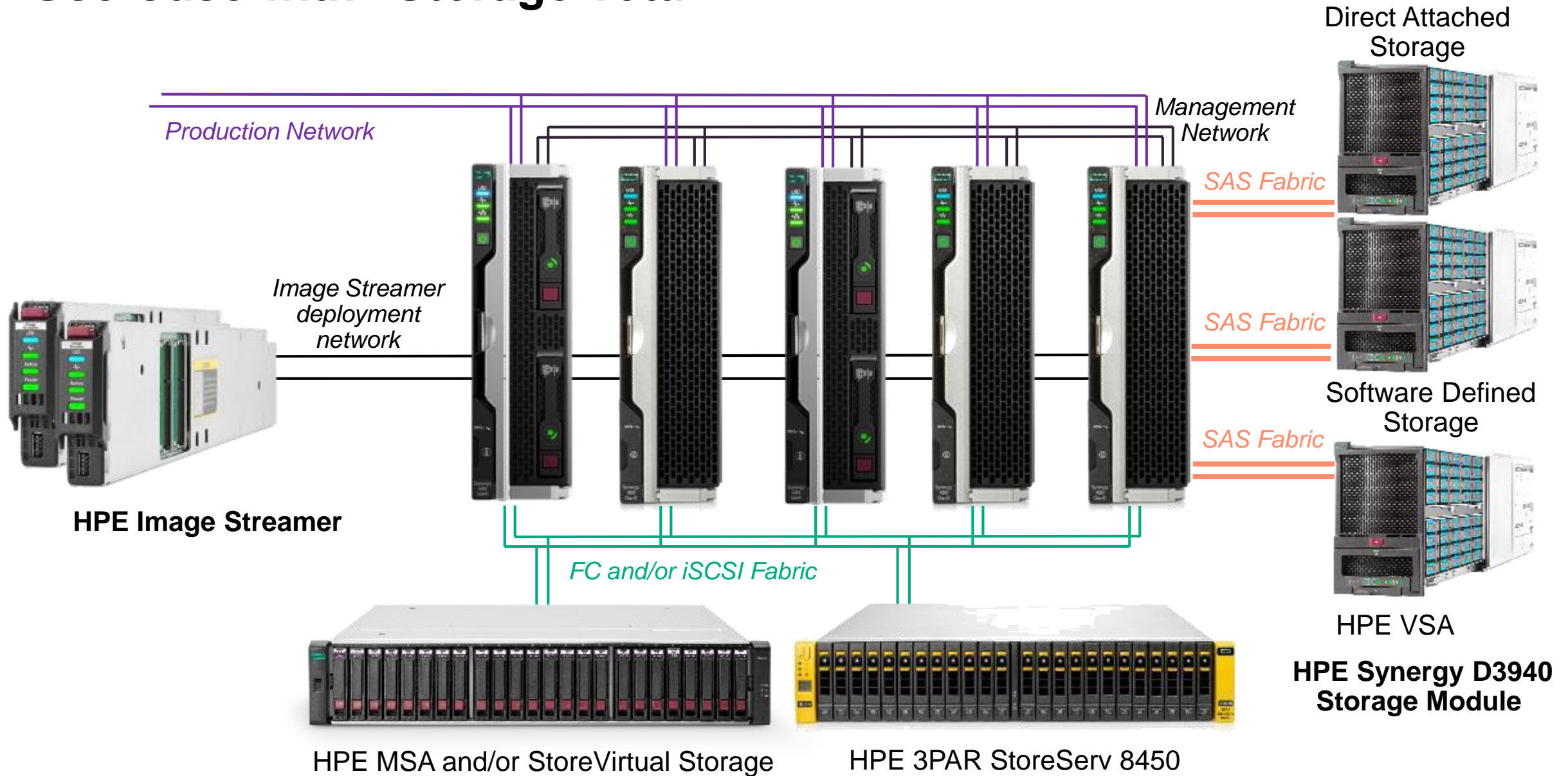
VM, VDI, Exchange

Hadoop, Analytics

Maximum Capacity



# Use Case with "Storage Total"

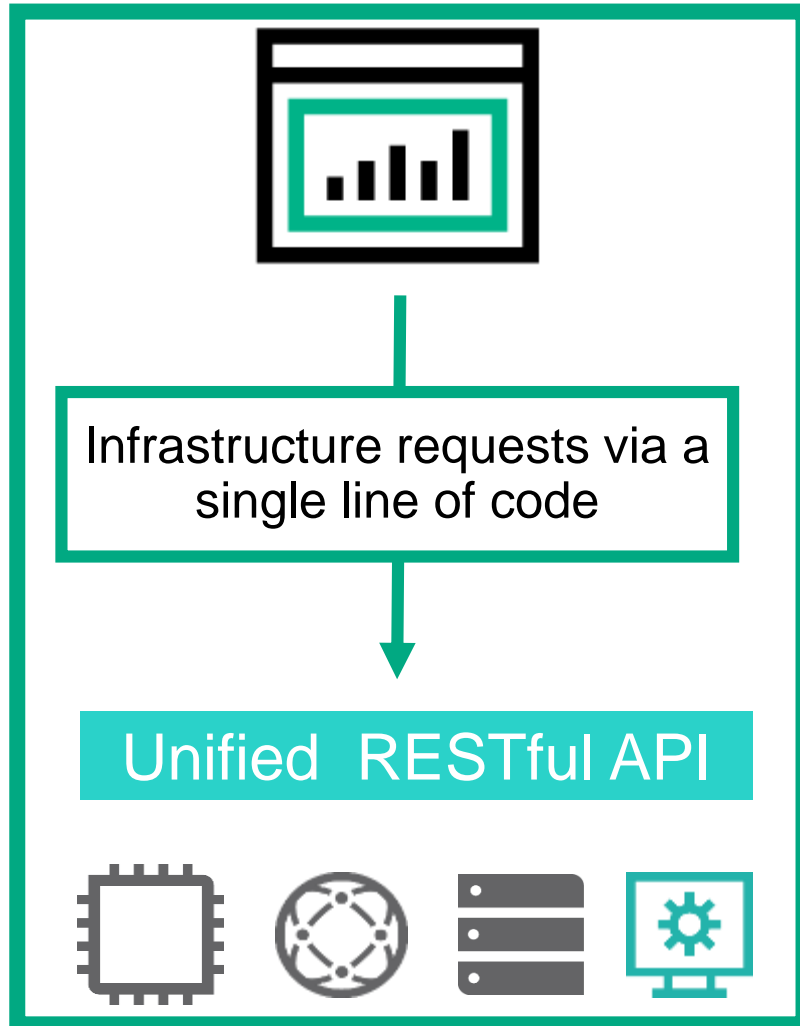




# “Single line of code” & Unified API

# Transforms infrastructure into a single line of code

```
New-HPOVProfile -config$name, -baseline$base, -sanStorage$san, server$server
```



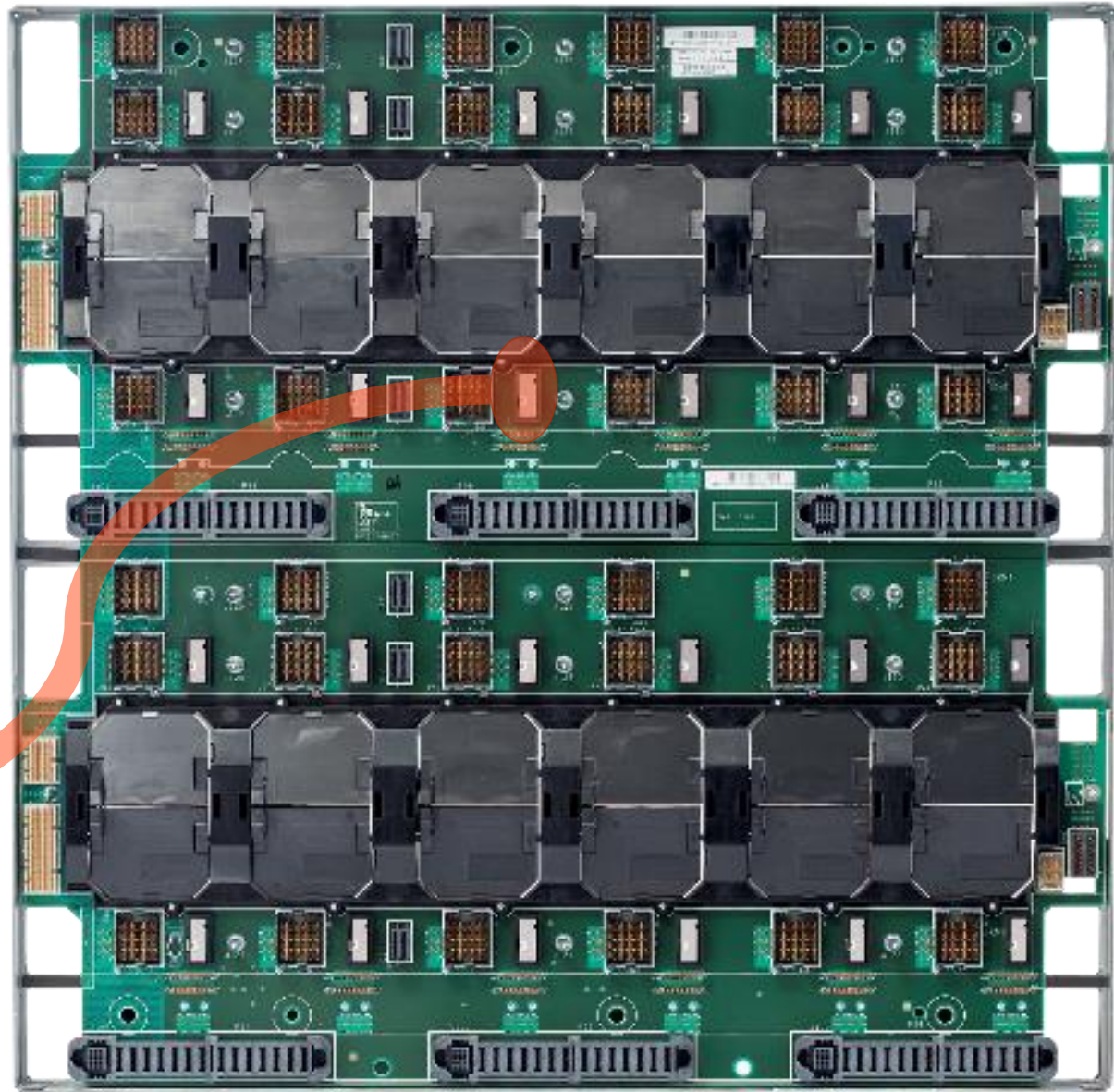
A collection of logos for various infrastructure and software companies. The logos are arranged in several rows. The top row includes openstack, HPE Helion, ARISTA, and docker. The second row features MagicFlex. The third row contains Emerson Network Power and Eaton. The fourth row shows Schneider Electric. The fifth row includes nlyte Software, Microsoft, and vmware. The sixth row has SALTSTACK, ANSIBLE, and puppet labs. The seventh row features CHEF.

PowerShell,  
CHEF,  
DOCKER,  
Python,  
Ruby,  
Puppet  
... and many more..



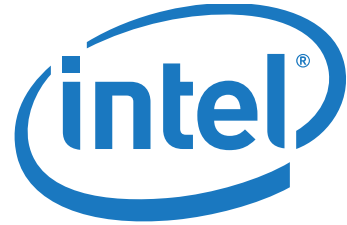
# Synergy – Ready for «The Machine» ?







**Hewlett Packard  
Enterprise**



Intel Inside®.  
Leistung

# Danke für Ihr Interesse

