

DRaaS and Backup as a Service

Analyst Briefing

July, 2018



Agenda

- 1) OVH: Introduction and overview
- 2) DRaaS and Backup as a Service product details and roadmap
- 3) Customer use case



OVH Introduction

A Global Cloud Leader

OVH is Vertically Integrated: Innovation from the Ground Up

We manufacture our own servers

- Relationships with Intel, AMD, NVIDIA
- Motherboards: SuperMicro
- Build to specs from sheet metal up

We build our own data centers

- 30% natural air cooling + 70% liquid cooling =
- 0% air conditioning

We own our own network

- 15+ Tbps network
- Anti-DDoS technology
- 33 POPs

OVH is a Global Cloud Leader & Growing Fast

Over 1.3 Million Business Clients in 138 Countries

Hosting capacity: **1.3 million physical servers**
300,000+ already deployed

200k private cloud VMs running

500k public cloud instances created per month



2016
20 data centers in
5 countries and
4 continents

2018
27 data centers
in 8 countries

We own our own 16+ Tbps network
with 34 PoPs

Since May 2017 focus on vCA integration & new DCs

- Following the acquisition of vCA, OVH:
 - Now running operations for ~1000 mid to enterprise customers
 - Integrated more than 200 vCA employees into OVH US
 - Prepared vCA customers for the transition to OVH data centers
- Vint Hill, VA data center launched. Hillsboro, OR launched with “Discovery” offer.

OVH enables the customer journey to the cloud

For on-premises customers who are heavily virtualized on VMware, OVH is the best move to the cloud



Strong partnership with VMware,
leader in on-premises x86
virtualization

[Confidential Customer Logos]

vCloud Air has a history of success
“Lifting and Shifting”
customers

Deep expertise
in VMware

+

Roadmap focused on
facilitating IaaS +
PaaS transformation

=

OVH is well positioned
to support the customer
journey to the cloud

OVH US product lines



Hosted Private Cloud
vmware®



Public Cloud Services

openstack.



Dedicated Servers
Bare Metal

Networking



Security





Disaster Recovery as a Service: Offerings

vCA customers excited about expanded capabilities with OVH



Infrastructure	<ul style="list-style-type: none">• Legacy hardware• Basic performance• No backbone• Manual provisioning	<ul style="list-style-type: none">• Powerful servers with most recent technology• Global 15 Tbps backbone• Automated provisioning
Software	<ul style="list-style-type: none">• Limited technology choices (no 3rd party vendors)	<ul style="list-style-type: none">• Veeam and Zerto as options in addition to vSphere Replication.
Flexibility	<ul style="list-style-type: none">• Long-term contracts only, no burst capability• Hosted private cloud only	<ul style="list-style-type: none">• Multiple billing options, with burst capability• Quick provisioning; scale up or down on demand• Multiple cloud service options

Customizable HW options: Faster, more RAM, more storage



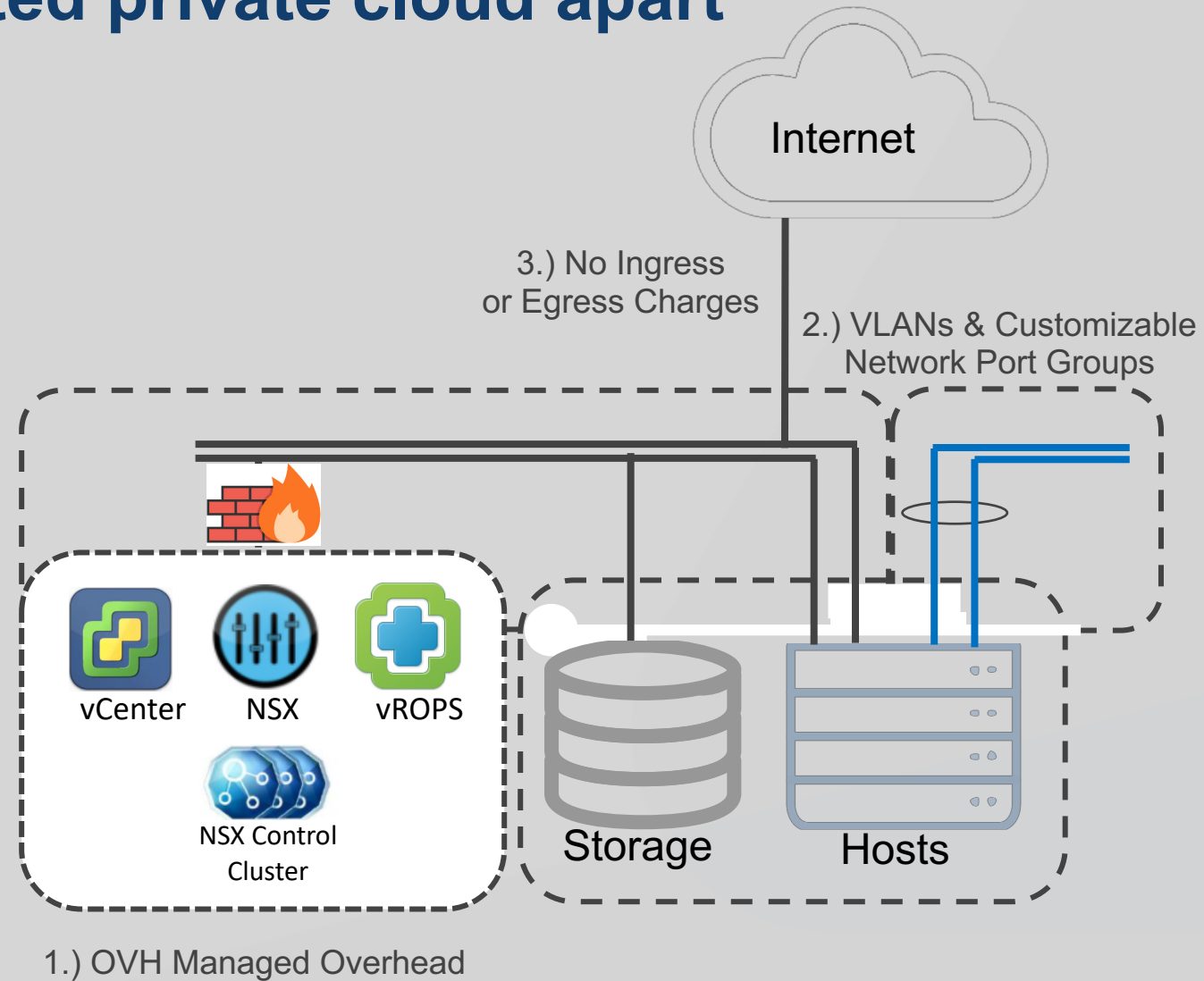
- Recent Intel-based hardware
- All hardware is dedicated
- Right-sized hardware
- On demand resource addition/removal

DR-S (2x Pack)	DR-M (2x Pack)	DR-L (2x Pack)	DR-XL (2x Pack)
Intel Xeon 1521 4 cores/8 threads 2.4 GHz 32 GB RAM 2 x 10 Gbps	Intel E5-1650-v4 6 cores/12 threads 3.6 GHz 64 GB RAM 4 x 10 Gbps	Intel E5-2689v4 10 cores/20 threads 3.1 GHz 128 GB RAM 4 x 10 Gbps	2 Intel E5-2689v4 20 cores/40 threads 3.1 GHz 256GB RAM 4x10 Gbps
<u>Data stores</u> 2 TB SSD-Accelerated	<u>Data stores</u> 6TB SSD-accelerated	<u>Data stores</u> 6TB SSD-accelerated	<u>Data stores</u> 6TB SSD-accelerated
1.5Gbps Pub/10Gbps Priv	1.5 Gbps Pub/10Gbps Priv	1.5 Gbps Pub/10Gbps Priv	1.5 Gbps Pub/10Gbps Priv
List Price: \$999/mo.	Price: \$2,919/mo.	Price: \$4,439/mo.	Price: \$7,079/mo.

Our architecture sets our hosted private cloud apart

Infrastructure

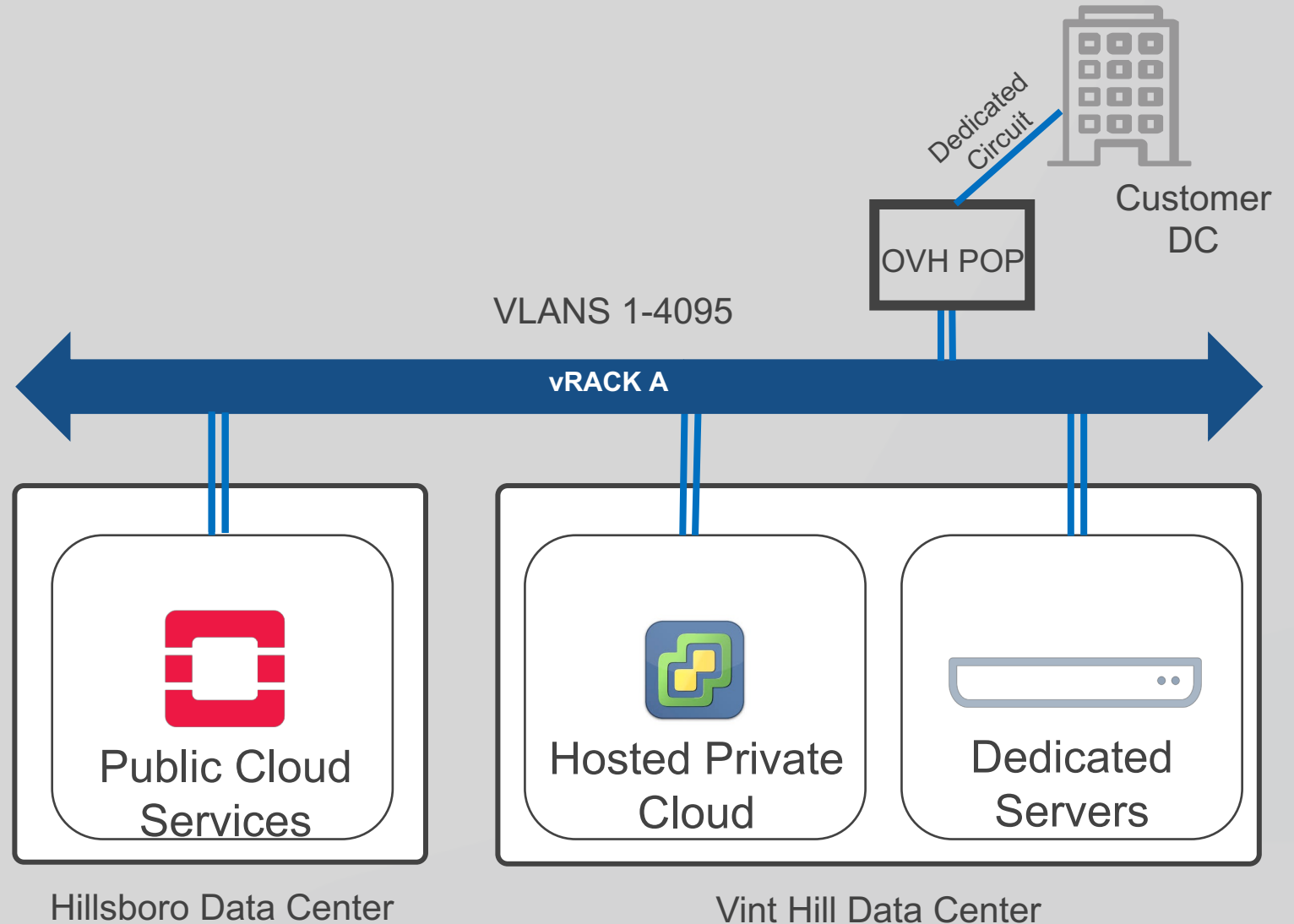
1. OVH Covered Management Appliance Overhead
2. Manage VLANs & Customize network port groups
3. No ingress or egress charges



OVH vRack (private LAN) connects your cloud all services

Infrastructure

- Segregate networking
- Share networking in Data Center
- Share networking in Region/Global
- Connect and Share networking to on-premises



DRaaS Software options: protection for every application

Software

Non-Critical Applications

- Applications whose availability will not impact business performance to a significant degree.
- High tolerance for downtime

vmware[®]
vSphere Replication

Business Critical Applications

- Applications that facilitate important business processes.
- Some tolerance for downtime.
- Little to no financial impact from short periods of downtime.

vmware[®]
vSphere Replication

Zerto

Mission Critical Applications

- No tolerance for downtime.
- Aggressive RPOs and RTOs.
- Downtime would have a financial impact on the business.

Zerto



Backup Software : Two Use Cases

Software

Managed Backups



Solution: Add-On to Hosted Private Cloud – backup to storage host

License: Standard or advanced.

Purchase: Per VM

Unmanaged Backups



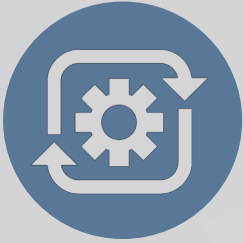
Solution: Bare Metal Servers & Hosted Private Cloud

License: Enterprise +

Purchase: Per VM or BYOL

Quickly respond to business needs

Flexibility



Automated Provisioning

- Automated new environment creation
- Add / remove hosts & storage & public IPs



Automated Maintenance

- Automated host replacement
- Storage backup & resilience
- Storage maintenance & support



Billing

- Multiple billing options,
- with burst capability,
- hourly rates

Timeline: Launch, grow, enhance

2018
2H

2019
1H

Hardware & General Services	<ul style="list-style-type: none">• Hosted Private Cloud hosts in US Market (32GB-768GB options)	<ul style="list-style-type: none">• Bare Metal DR Services• Object Storage
Software	<ul style="list-style-type: none">• OVHcloud.com w/ US Manager portal• Zerto	<ul style="list-style-type: none">• Site Recovery Manager (SRM)• BYOL options for customers
Network & Data Center	<ul style="list-style-type: none">• Launch US East, US West, Germany, UK, and Poland• Statement of intent for DC Certification HIPAA, PCI, ISO, SOC1/SOC 2	<ul style="list-style-type: none">• 7 additional international POPs• Additional backbone bandwidth• Additional anti-DDoS



Insurance Company

Excited about possibilities with OVH

Problem: Limited time to evacuate a data center

- Insurance company
- 3000 employees
- Big investment in VMware technologies

Challenge

- [Customer] had a hard date to get out of 2nd data center

Need

- Leverage existing investment in back up gear
- Operationalize in a short period of time

Question for OVH

- Can they leverage the cloud for disaster recovery?
- Leverage investment in NSX?
- Connect to Sungard?
- Leverage recently purchased back-up gear?

Product Purchased

- Dedicated DRaaS with vSphere replication + HCM

Key Factors in WBMI Decision



Same Tools



Same Team



Less Risk

WBMI DRaaS Short List

Microsoft

- Strongly considered because [customer] utilizes Duck Creek software that runs on Azure
- Microsoft 2003 can't run on Azure

VMC on AWS

- Couldn't direct connect from on-premise to cloud via private dedicated circuit

Google

- Very difficult to do DR with Google
- Too much customization

DRaaS: More Capabilities with OVH

New Cloud Capabilities

- Layer 2 stretch (via software)
- Partial site failover

New Capabilities with OVH

- Layer 2 stretch in hardware (and software)
- Bare metal compute



QUESTIONS + ANSWERS