HPE Data Protection Solution for Microsoft Azure and Microsoft Azure Stack
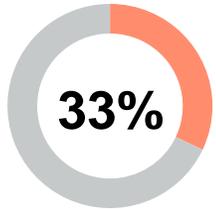
Cloud-enabled data protection powered by Veritas NetBackup

Sept 2018

Hewlett Packard Enterprise

VERITAS

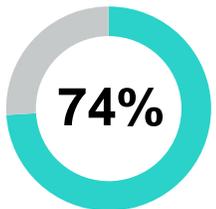# Reducing risk and ensuring resilience for Hybrid IT
How are you protecting your mix of traditional IT and private cloud infrastructure?

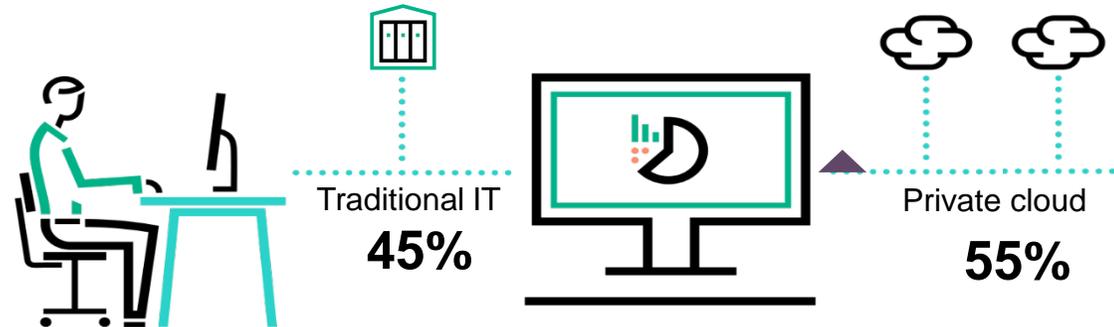**33%** Of organizations use hosted private clouds and public clouds

50% Of organizations use on-premises private clouds and public clouds

74% Of organizations use on-premises private clouds and hosted private clouds

Enable protection of workloads with optimal service

Traditional IT **45%**

Private cloud **55%**

Source: 451 Research Market Monitor: Cloud Computing, Q2 2016

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Customer challenges protecting data in Azure Stack

I need to protect my data wherever it resides—in traditional IT and private or public clouds

I need to reduce the cost and complexity of protecting Hybrid IT

I want to use my existing backup application for native cloud-based DR

I want to use private or public clouds for low-cost, long-term retention to maintain regulatory or governance compliance

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The 3-2-1 rule for best practice Hybrid IT data protection
Protecting data against any failure...wherever it lives

3-2-1 best practice: 3 copies of data, 2 copies on 2 different types of media, and 1 copy off-site

First copy on
primary storage

Second copy on
disk backup appliance

Third copy on another disk
backup appliance

Optional: Copy saved
in cloud

On-premises

Off-site

Why do today's Azure Stack data protection solutions fall short?

Native Azure backup

– Does not allow VM-level backups through hypervisor APIs

– Lacks the enterprise capabilities of on-premises data protection solutions

– Backs up data directly to Azure public cloud with no option to keep backed up data on-premises; high risk of missing SLAs (RTO)
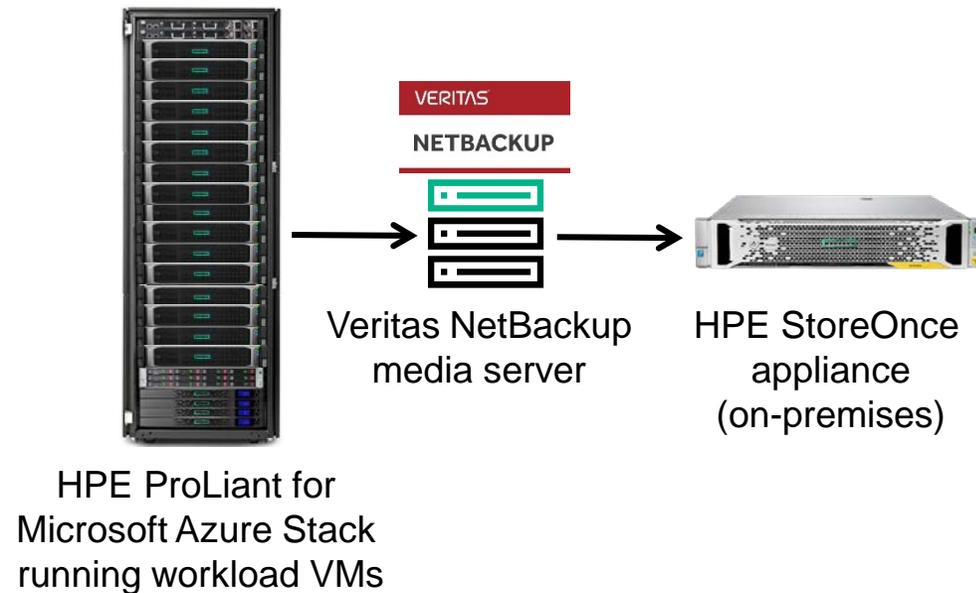
Snapshots and replication

– Are primarily used for disaster recovery

– Are not integrated with each application to ensure application-consistent recovery

– Do not provide a viable long-term retention option

Enabling on-premises data protection for Azure Stack
HPE StoreOnce and Veritas NetBackup

Key benefits

– Efficient CPU consumption with source- and server-side deduplication

– Fast restores (RTO)

– Industry-leading deduplication with tight OST integration
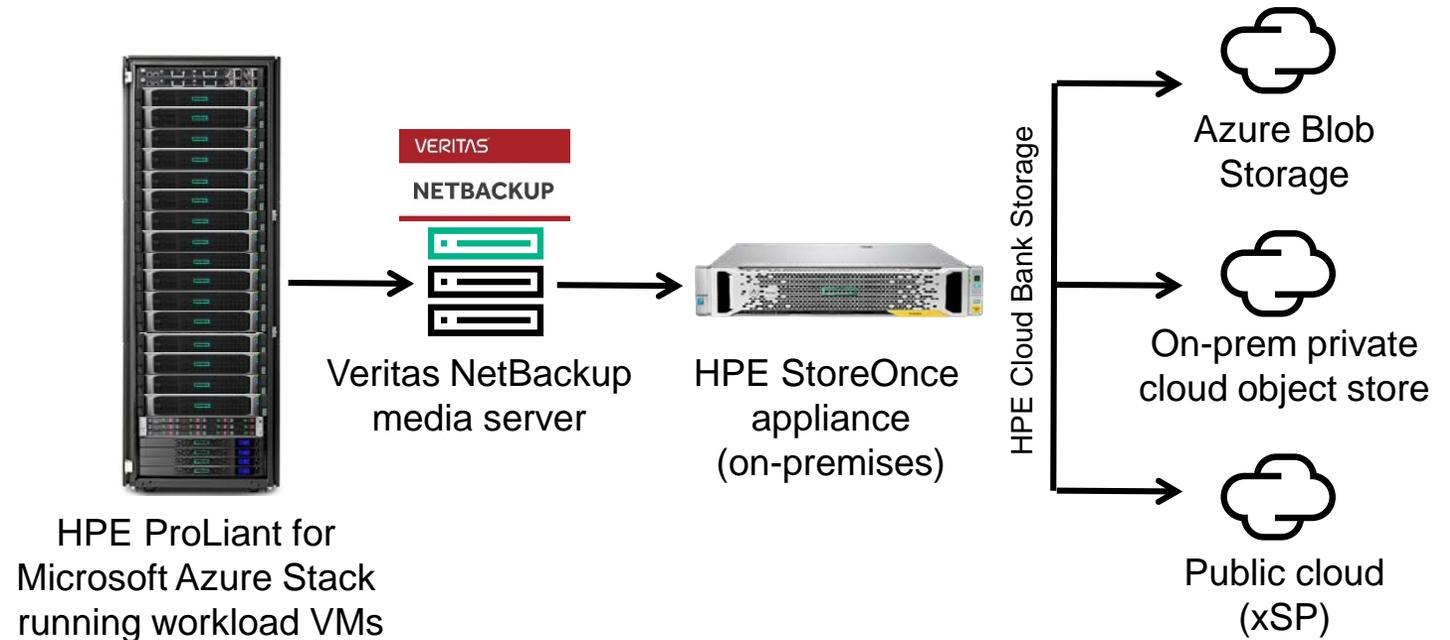
– Option to serve as multicloud gateway

HPE ProLiant for
Microsoft Azure Stack
running workload VMs

Veritas NetBackup
media server

HPE StoreOnce
appliance
(on-premises)

Enabling off-premises data protection for Azure Stack
HPE Cloud Bank Storage and Azure Blob Storage

Key benefits

– Wide choice of cloud deployments

– Cost-effective and high performance with long-term retention

– Reliable disaster recovery using off-site backup data copies without having to invest in off-site facilities

HPE ProLiant for Microsoft Azure Stack running workload VMs

Veritas NetBackup media server

HPE StoreOnce appliance (on-premises)

HPE Cloud Bank Storage

Azure Blob Storage

On-prem private cloud object store

Public cloud (xSP)

Why HPE StoreOnce systems for Azure Stack?
Simple, affordable, and cloud-ready data protection

Virtualized
Deduplicated backup in a VM for virtualized cloud environments

RPO and RTO driven
Industry-leading backup and restore performance

Application centric
Tight integration with leading backup ISVs and app plug-ins such as Microsoft SQL Server

Hybrid cloud ready
Native Azure Stack and Azure cloud tiering for long-term retention and DR

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Why HPE Cloud Bank Storage for Azure Blob Storage?

Economic
Protect **>100 PB**[1] of data at **20x**[2] lower cost than existing public cloud services

Efficient
20x[3] reduced storage capacity requirement and optimized bandwidth utilization cost while transferring data

Flexible
Automated, native tiering of backup data to Azure and Azure Stack

Secure
Mitigate risk with simple, encrypted, and reliable cloud disaster recovery solution

[1] Assuming dedupe ratio of 20:1 and the maximum logical capacity of StoreOnce 6600 of 34 PB
[2] Cost of long-term retention of backup data with Cloud Bank Storage for StoreOnce, assuming dedupe ratio of 20:1 and AWS (S3) standard object storage pricing of $0.02 per GB per month
[3] When compared to a fully hydrated backup

Learn more

- Download the HPE data protection solution for Microsoft Azure Stack Reference Architecture

- Read blog titled Data protection for Azure Stack hybrid cloud environments using HPE Storage and Veritas NetBackup

- Check the health of your backup environment and optimize with the free backup assessment tool: Sign up, watch the video, and read the solution brief

- Involve HPE Pointnext consulting and contact Bharath Ram Ramanathan (bharath-ram.r@hpe.com) for a customer demo environment