



Red Hat Hyperconverged Infrastructure:

la prima soluzione HCI (Hyperconverged Infrastructure) production-ready open source basata sulla tecnologia di virtualizzazione e piattaforma storage software-defined di Red Hat

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Agenda



- 1) Cos'è RHHI
 - ☐ Architecture & Technology
- 2) Features
 - ☐ Feature Core
 - ☐ Feature Network
 - ☐ Feature Storage
- (3) Backup
- 4) Disaster Ricovery
- 5) Use Cases







COS'E RHHI

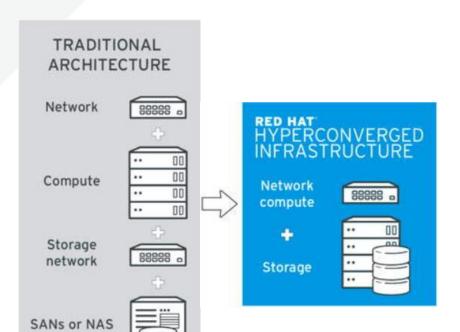






Red Hat Hyperconverged Overview





- •Eliminare la complessità storage
- •Budget unico per la parte computazionale e storage
- •Implementazione & gestione semplificata
- •Single Point Of Contact per il supporto di tutto lo stack
- •Unico Team di gestione per l'intero stack

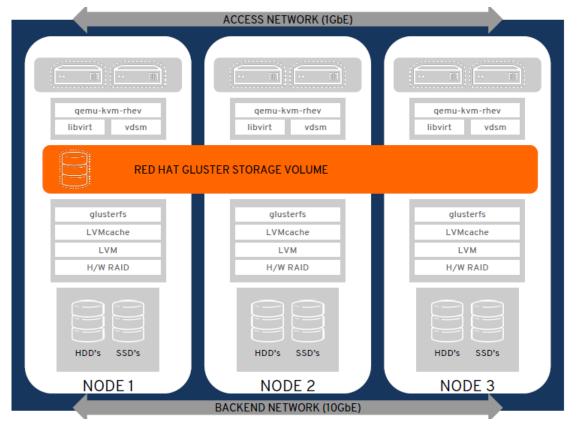






RHHI Architecture Overview











FEATURES







RHHI Feature Core



Single Point of Management for Virtual Resources	HA for Virtual Machines & Management	Automated Resource Mgmt/Load Balancing
CPU Pinning	VM Templates	CPU QoS
RBAC & Tiered Access	Secure Browser Based Management	Hot Add Memory & CPU
Power Management	Streamlined Deployment & Operations	Advanced Live Migration Policies
Support for RHEL & Windows Workloads	Python, Ruby, & Java SDKs	Live Migration
Firewall/SELinux	REST API / Integrate w/ Red Hat Portfolio	









RHHI Feature Network

VLAN Tagging Open Virtual Network (Tech Preview)

Network QoS IPv6 Support (guest)

NIC Bonding Jumbo Frames

VM-FEX Support Network Labels







RHHI Feature Storage



Sharding support 3-way Data Replication

Live Snapshots/Merge Thin & Thick Provisioning

Block discard Storage-based fencing

SSD Caching







BACKUP



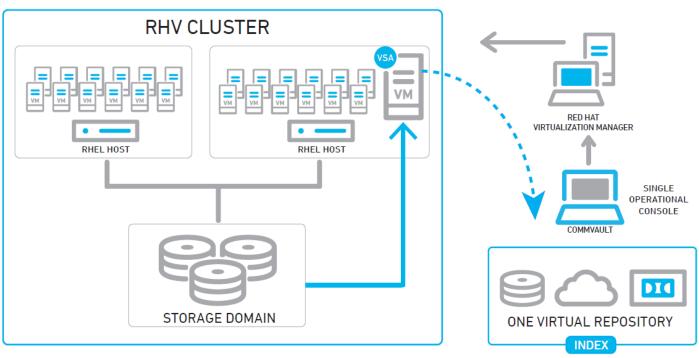




CommVault Solution



RED HAT VIRTUALIZATION









DISASTER RECOVERY



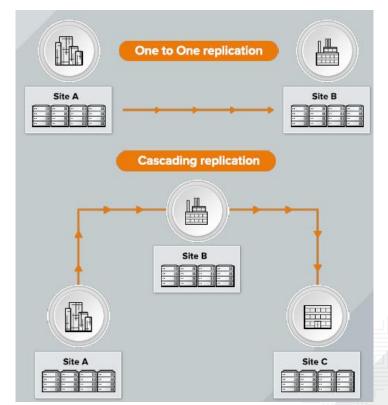




Native Solution (Red Hat Gluster)

- •Asynchronous across LAN, WAN or Internet
- Modello Master / Slave
- •Cascading Replication
- •Molteplici configurazioni:
- •Uno a Uno
- •Uno a Molti
- Cascata

- •PERFORMANCE
- Parallel Transfer
- Efficient source scanning
- Pipelined and batched
- •File type/layout agnostic
- •CHECKPOINTS
- •FAILOVER AND FAILBACK

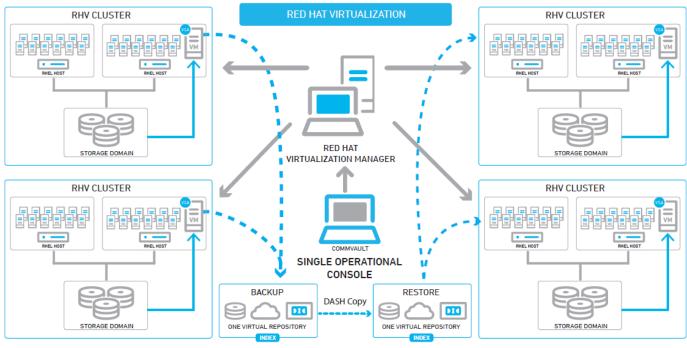








CommVault Solution



DATACENTER - A DATACENTER - B







USE CASES



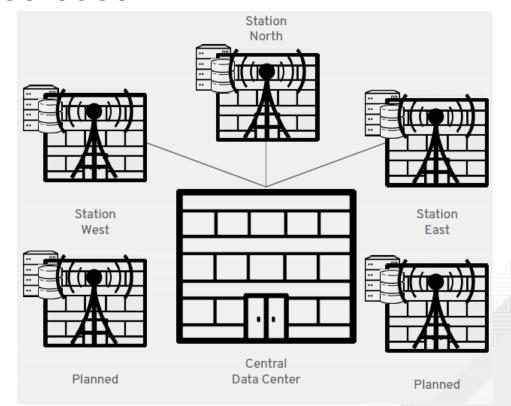




Use Case

PRIMARY USE CASE

- Deploy compute and storage resources closer to cellular customers
- Distributed infrastructure reduces cellular network congestion
- Enhance network performance and build additional resiliency





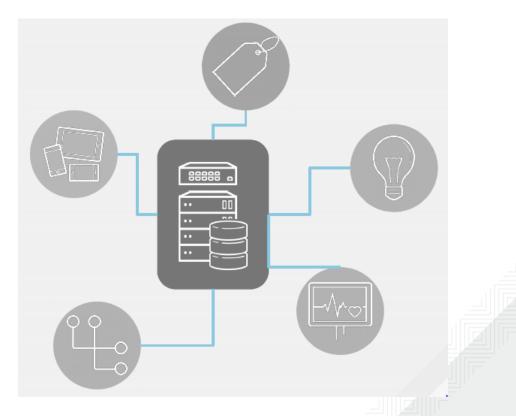




Use Case

PRIMARY USE CASE

- Implement a robust intelligent gateway tier
- Deploy compute and storage resources closer to endpoints
- Red Hat Hyperconverged Infrastructure becomes a "microdatacenter" for IoT





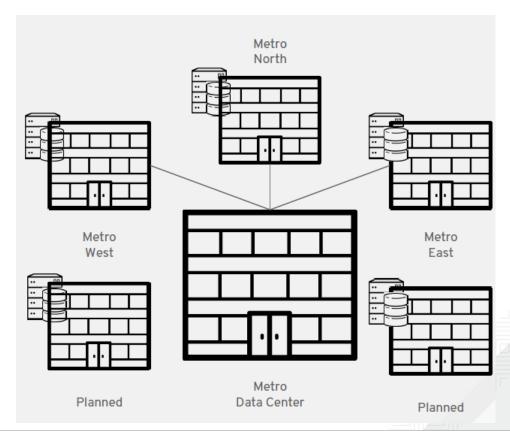




Use Case

PRIMARY USE CASE

- Seeking overall reduction in TCO
- Need infrastructure consolidation
- Need reduced footprint power/cooling costs expanding with traditional models
- Dealing with too many vendors ease of acquisition/support
- Need to keep key applications local to the remote site











RED HAT OPEN SOURCE DAY

Europe, Middle East & Africa



