

NUTANIX TO VMWARE MIGRATION CASE STUDY

**A FINANCIAL SERVICES COMPANY HIRED
SUMMIT TO MIGRATE 250 VMS AND 64 TB
OF DATA FROM NUTANIX TO VMWARE
VSPHERE, BOOSTING I/O PERFORMANCE
BY 40%.**

A CASE STUDY BY
SUMMIT

CHALLENGE

A mid-sized financial services company with 500 employees had been using Nutanix hyperconverged infrastructure for five years. Due to changing business needs and a desire for better integration with an existing VMware-based disaster recovery site, it needed to migrate its primary data center from Nutanix to VMware vSphere. The team felt overwhelmed by the project, so they called on Summit to properly manage the full migration for them.

MIGRATION SCOPE

- 250 virtual machines (VMs) running various workloads
- 64 TB of data
- Critical applications: ERP system, customer database, development environments
- Timeline: 1 month

CONSIDERATIONS

- Minimal Downtime: Business continuity during the migration was a priority, with minimal disruption to their 24/7 operations.
- Different Hypervisors: Moving from Nutanix AHV to VMware ESXi required careful planning due to differences in VM formats and management tools.
- Network Reconfiguration: The existing network configuration in Nutanix needed to be accurately translated to VMware's networking model.
- Data Integrity: Data had to be transferred completely without corruption or loss.
- Application Dependencies: Some applications had complex interdependencies that needed to be maintained post-migration.



MIGRATION PROCESS

For this project, Summit chose primarily Carbonite Migrate as the migration software suite due to its ability to handle live migrations between different hypervisors with minimal downtime.

Assessment and Planning

- Conducted a thorough inventory of all VMs and their dependencies
- Created a detailed migration plan, prioritizing non-critical workloads first

Environment Preparation

- Set up the target VMware environment with appropriate resources
- Installed and configured Carbonite Migrate on both source and target environments

Test Migrations

- Performed test migrations on non-production VMs to validate the process
- Adjusted the migration plan based on test results

Phased Migration

- Migrated VMs in phases, starting with non-critical workloads
- Used Carbonite Migrate's replication feature to keep source and target in sync until cutover

Network Reconfiguration

- Recreated network configurations in VMware, including VLANs and security groups
- Updated DNS and DHCP settings to reflect the new environment

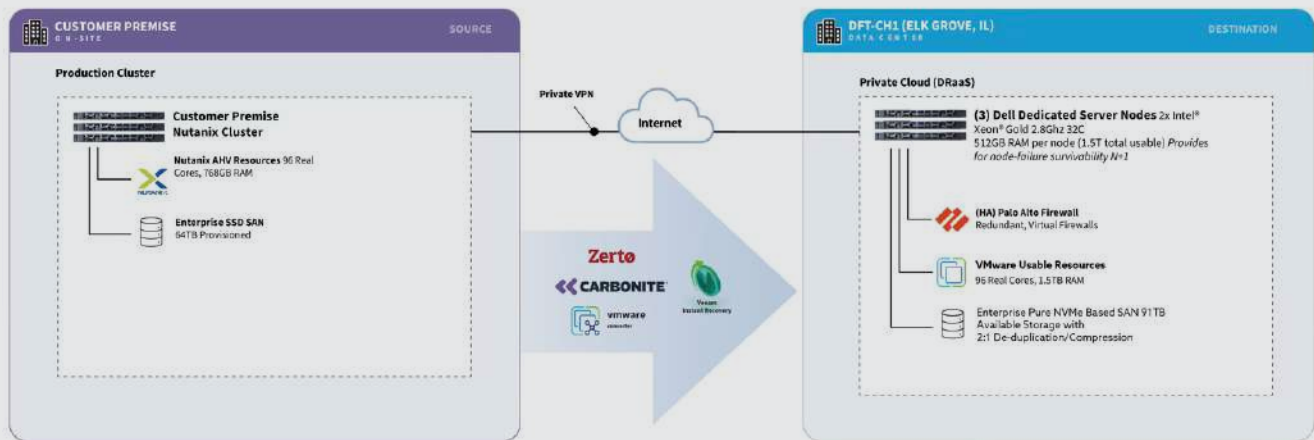


Application Testing

- Conducted thorough testing of all applications post-migration
- Involved end-users in UAT (User Acceptance Testing) to ensure functionality

Final Cutover

- Scheduled the final cutover of critical systems during a maintenance window
- Used Carbonite Migrate's near-zero downtime feature for the most critical applications



RESULTS

- Successfully migrated all 250 VMs and 64 TB of data within the 1-month timeline
- Achieved minimal downtime, with critical systems experiencing less than 30 minutes of interruption
- Improved overall system performance due to optimized configuration in VMware
- Enhanced disaster recovery capabilities by standardizing VMware across primary and DR sites with Veeam backups
- Improved I/O performance by 40% with NVMe-based SAN Storage
- Acquired a carefully crafted Disaster Recovery Runbook from Summit, built to meet or exceed customer-required RTO/RPOs

TIPS FOR A SMOOTH MIGRATION

- A thorough pre-migration assessment is crucial for identifying potential issues early
- Regular communication with all stakeholders helps manage expectations and reduce migration stress
- A phased migration approach allows for better control and issue resolution
- Ongoing post-migration optimization is necessary to fully leverage the new environment's capabilities



Some things are too important to mess up. A data migration is one of them. When you need an experienced, source-agnostic partner you can count on, call Summit.

