

Veritas NetBackup 8.3

Unified data protection for the cloud-ready enterprise.

VERITAS™

ENTERPRISE-CLASS DATA PROTECTION

Long recognized as the market share leader in enterprise backup and recovery software, Veritas NetBackup™ eliminates the cost and complexity of point products while keeping your data secure, compliant and available—regardless of where it lives. Offering rapid recovery of business-critical data across hybrid, physical, virtual and multicloud environments, NetBackup scales to any size workload and delivers breakthrough capabilities for virtualized and cloud-based deployments that go well beyond what traditional backup practices can achieve.

From threats such as a ransomware attack to unplanned downtime, NetBackup empowers you to protect your enterprise from the unforeseen and offers these key benefits:

Manage business risks—NetBackup provides rapid recovery from catastrophic business events, including everything from lost files and ransomware attacks to data center downtime. From backup appliances to cloud storage, NetBackup integrates at every point in the technology stack to maximize reliability and performance. Recover at scale with NetBackup Resiliency to become resilient from threats like ransomware. Use immutable storage and access management of data for extra security measures. Prevent any gaps or siloed work by having visibility and reporting of your entire data infrastructure with APTARE™ IT Analytics.

Trust that “it just works”—For over a decade, NetBackup has led the industry as the most popular enterprise data protection software by market share, is used by the largest enterprises on the planet and has been named a Leader 15 times in the Gartner Magic Quadrant (MQ). We have a global team and community around the world to assist our customers and partners on their journey to keeping their data safe, accessible and compliant. With 2,000+ developers worldwide, 2,140+ global patents and 800+ supported workloads, Veritas is a nation of innovation.

Reduce cost and complexity—As a single, unified solution to protect all your data assets, NetBackup provides support for virtually every server, storage, hypervisor, database, application and cloud platform used by enterprises today. Featuring high performance, intelligent automation and centralized management, this unified data protection platform can protect any workload at scale, eliminating the need for point products (see Figure 1.) NetBackup 8.3 integrates with CloudPoint and Veritas Resiliency Platform, provides simplified licensing with a single SKU and meter with access to complete the NetBackup data protection platform.

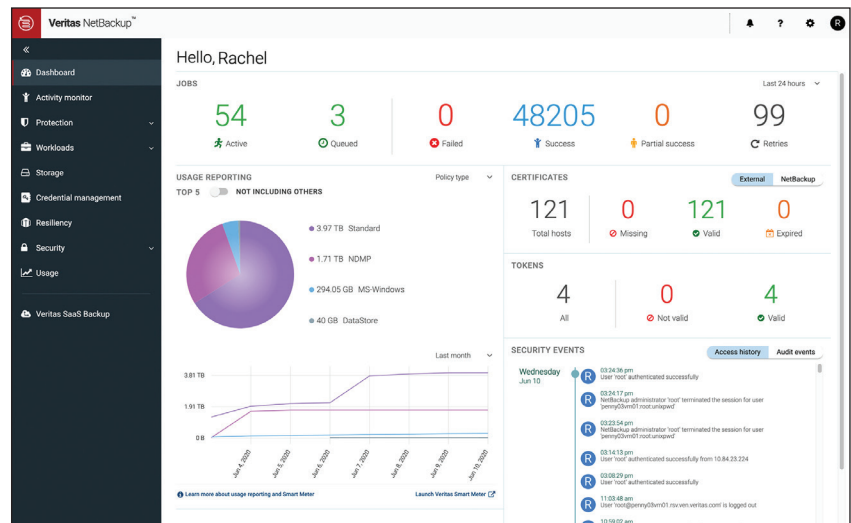


Figure 1. The NetBackup web UI dashboard conveniently displays a single, aggregated view of the most important information in one place.

Prepare for the future—With hundreds of patents awarded in areas including cloud, containers, backup, recovery, virtualization, I/O optimization, deduplication and snapshot management, NetBackup continues the long Veritas tradition of bringing advanced technologies to market first. Our solution provides the infrastructure to integrate with future technologies. We provide you the freedom to adapt to your changing environment.

PROTECT ANY WORKLOAD

One of the hallmarks of enterprise IT is its heterogeneity. The wide variety of platforms, applications and infrastructure often grows with the size of the enterprise. NetBackup supports a vast array of environments and integrates with every layer of the infrastructure stack to unify your entire data protection strategy.

Operating systems—NetBackup integrates with dozens of server operating system (OS) versions, including Microsoft Windows®, Linux® and UNIX® files.

Virtual systems—NetBackup integrates with leading hypervisors including VMware vSphere®, Microsoft® Hyper-V, Nutanix AHV, Red Hat Virtualization, Docker, Azure Stack and OpenStack.

Databases and applications—NetBackup integrates with leading relational database and application platforms, including IBM DB2®, Microsoft® Exchange Server, Microsoft SQL Server®, MySQL™, Oracle®, Oracle RAC, SAP® and others.

SQL Self-Service—Provides separation of duties between the backup administrator and the DBA. The DBA can independently discover, manage credentials, schedule backups, and perform restores of Microsoft SQL. The DBA can also utilize Instant Access to quickly browse or mount a database.

Universal shares—New form factor support for CIFS/NFS shares backed by MSDP storage is now available for both appliances and build-your-own (BYO) media servers. Enhanced management includes user quota support, AD integration, NetBackup HA Appliances support, and part of the web UI for centralized management as well as full API support.

Storage systems—NetBackup protects data at the storage system level by integrating with various snapshot and NDMP protocol supported on Pure Storage, Dell EMC®, HPE, Hitachi, IBM®, NetApp® and others. Protect NAS workloads using Dynamic NAS (DNAS) Data Protection. Ensure automated protection of business-critical data on NAS storage with the ability to restore data anywhere (cloud, physical, virtual).

Cloud platforms—NetBackup supports the backup and recovery of workloads within cloud environments by leveraging cloud-native snapshot technology on Google, Microsoft Azure, and AWS.

Big data systems—With NetBackup Parallel Streaming, you can protect large scale-out, multi-node systems such as Hadoop and HBase much more quickly by streaming data from every node simultaneously.

CHOOSE YOUR STORAGE

Much has changed since the days of traditional tape backup. Enterprises now have many choices of where to store backups. NetBackup integrates this diverse collection of storage targets without compromising manageability.

Ransomware immutable storage target—Prevent ransomware from encrypting backup data with NetBackup support that is agnostic to immutable storage using the NetBackup OpenStorage Technology (OST) API. Storage solutions are responsible to update or create an OST plug-in to leverage this capability. Veritas is collaborating with immutable storage vendors to update their OST plug-ins with NetBackup. Veritas NetBackup immutable storage server with Flex Appliances will leverage this new capability in future Flex software releases.

Cloud storage—NetBackup supports a growing list of third-party cloud storage providers such as Amazon Web Services (AWS), Microsoft® Azure and Google that can be easily incorporated into NetBackup policies. And NetBackup deduplicates data before it's transferred and stored in the cloud, which reduces backup times and lowers your cloud infrastructure costs.

Purpose-built backup appliances (PBBAs)—NetBackup uses its OpenStorage Technology (OST) interface to integrate with a wide range of PBBAs and storage appliances. Veritas offers a full line of Integrated PBBAs that are optimized integrations of NetBackup in a hardware appliance. Designed for enterprise use cases from the edge to the core to the cloud, NetBackup Appliances speed the deployment of NetBackup and provide hardened security, simplified management and proactive support for enterprise-wide data protection. Veritas Appliances ensure end-to-end support of the complete data protection solution. Incorporate the Veritas Appliance Family in your data infrastructure to expand your data protection capabilities (see Figure 2.)



Figure 2. Veritas NetBackup 5250 is an integrated enterprise backup appliance with expandable storage and intelligent deduplication for physical, virtual and cloud environments.

Disk—You can organize ordinary disk volumes into disk pools under NetBackup control.

Storage system snapshots—NetBackup can orchestrate hardware snapshots using proprietary capabilities from vendors such as NetApp, Dell EMC, HDS, HPE and Pure Storage. Recover NAS backups (NetApp and Nutanix files) anywhere with a backup copy or use rapid restore from a snapshot, which avoids vendor lock-in.

Tape—NetBackup brings mainframe-class media management to a massive selection of supported tape drive and robotic hardware configurations.

MEET THE SHRINKING BACKUP WINDOW

It's not uncommon for IT organizations to report data growth of 40–60 percent per year. To keep up, you need backups that run as fast as possible without disrupting production activity. NetBackup combines innovative design with the latest technical advancements to deliver impressive performance numbers with minimal impact.

Parallel Streaming—Eliminate performance bottlenecks and optimize storage for big data environments. NetBackup Parallel Streaming provides agentless, API-based backup and restore of multi-node, scale-out clusters such as Hadoop.

Accelerator—Eliminate full backups once and for all. With NetBackup Accelerator, only changed blocks are backed up each time. These blocks are combined with previous backups to synthesize a new full backup for quick recovery.

Snapshots—Let the storage system run backups for you. With NetBackup Snapshot Management, snapshots are orchestrated, cataloged and replicated using storage technologies from vendors such as NetApp and Dell EMC.

RESCUE YOUR BUSINESS

The unthinkable happens. Services are down and the clock is ticking. There's no time to waste: It's time to recover from backup. NetBackup is ready with fast, reliable recovery options to get your systems up and running as quickly as possible.

Instant Access—Mount and browse both VMware and Microsoft SQL images using a simple, web-based user interface, accessible by any user that has been granted access. These are made available directly from the MSDP storage without moving any data. Instant Access is available on both appliances and BYO media servers.

NetBackup Bare Metal Restore™—Quickly prepare a physical system for restore, eliminating the need for manual reconfiguration.

NetBackup Granular Recovery Technology (GRT)—NetBackup GRT indexes the contents of data sources, making it easy to restore specific items without endless trial-and-error restore attempts.

PREPARE FOR DISASTER RECOVERY

No business will survive if it keeps its data in one place. Protect your business from natural disasters and site outages by keeping a copy off-site or in the cloud. NetBackup can help you automate disaster recovery (DR) readiness regardless of what storage or transport method you use.

NetBackup Auto Image Replication (AIR)—With NetBackup AIR, backup images and catalogs are automatically replicated over a network to other NetBackup domains on-premises or in the cloud, according to preset policies.

Snapshot replication—Hardware snapshots can be automatically replicated to other storage systems at off-site locations, all under the control of NetBackup Resiliency Platform.

Tape vaulting—Vault automatically ejects the proper tapes from a robotic library, tracks the movement of tapes to and from off-site storage facilities and prints daily reports to include with the daily shipment or email to your records management vendor.

NetBackup Resiliency—Meeting business uptime service-level objectives (SLAs) across hybrid clouds with multiple point products and different data sources can be complicated and costly. The integration of NetBackup and Resiliency Platform helps you proactively ensure resiliency for applications across your heterogeneous environments using both near-real-time data replication and a combination of replication and NetBackup AIR with orchestrated recovery. (See Figure 3.) Access NetBackup Resiliency directly from the NetBackup web UI and visualize all virtual machines associated with it. (See Figure 4.)

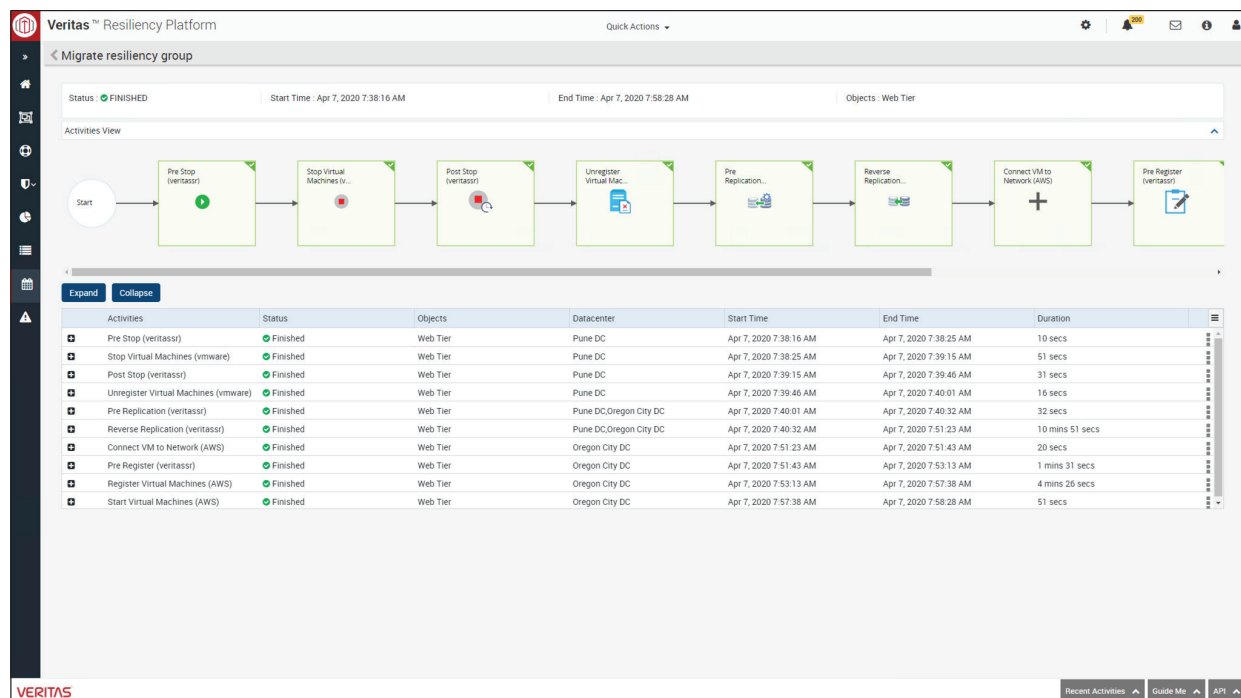


Figure 3. Veritas Resiliency Platform can orchestrate complex NetBackup site recovery operations with a single click.

| Name | RPO | State | Recovery readiness | Platform | Server | Protection | Resiliency group |
|------------------|-----|-------|--------------------|----------|------------------------|--------------|------------------|
| rhel_small_19_cd | ✓ | On | High | VMware | schvpessq13.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_15_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_20_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_18_cd | ✓ | On | High | VMware | schvpessq13.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_16_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_14_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_11_cd | ✓ | On | High | VMware | schvpessq13.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_13_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_17_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |
| rhel_small_12_cd | ✓ | On | High | VMware | schvpessq14.engba.veri | Backup (AIR) | test_13vm14 |

Figure 4. Resiliency integration within the NetBackup web UI.

DR to the cloud—To achieve near-zero downtime and minimize ransomware threats.

Seamless workload and data portability in hybrid-cloud—Workload mobility between physical or virtual on-premise systems to public cloud environments for maximum flexibility and optimized resource utilization. Resiliency and mobility between Azure Stack environments, or between Azure regions.

External KMS support—Supporting KMIP to allow agnostic integration to third-party KMS solutions.

DEPLOY QUICKLY

Experienced IT professionals know how difficult it can be to deploy or upgrade backup systems. Not only do backup servers and storage require their own care and feeding, but backups interact with just about every server, storage or network component. NetBackup eases this burden and offers a fully integrated, turnkey appliance that integrates software with the required hardware, providing several benefits such as single process updates and simplified management.

Agentless backup—NetBackup makes agents within virtual machines (VMs) unnecessary for backups, greatly simplifying the deployment and maintenance of backup software across a virtual environment.

NetBackup Appliance family—For the fastest deployments, consider deploying NetBackup Appliances. NetBackup Appliances come preinstalled with all necessary hardware and software components and can be set up in minutes.

Automatic client updates—For systems that use client or agent software, NetBackup can automate the deployment of this software using built-in or third-party software distribution tools. For media server upgrades, VxUpdate is available as well.

STREAMLINE OPERATIONS

With the constant pressures of relentless data growth and escalating service requests, IT is always challenged to do more with less. NetBackup helps you maximize staff productivity so you can invest more in your core business.

Centralized, policy-based management—All NetBackup policies are configured from a single management console enforced by the NetBackup master SaaS server. Intelligent policies for VMware, Oracle, SQL and NAS help optimize performance with continuous load balancing.

Role-based access—Grant limited access privileges to other people in your organization based on role. Users can only manage workloads they have been assigned and can only perform the range of tasks you authorize.

Console plug-ins for Hyper-V and vSphere—Plug-ins for the VMware vSphere® web client and Microsoft® System Center Virtual Machine Manager (SCVMM) give VM admins direct control over backup and restore operations.

Extensive API library—Leverage NetBackup RESTful APIs to customize the user experience and integrate with third-party operations platforms such as ServiceNow® to achieve a much greater level of automation.

NetBackup Self Service—Offers business users a single “store front” to perform self-service backups and restores using custom-designed interfaces. A single instance can register multiple tenants to allow secure separation. SLA measurement, notification and reporting make it easy to manage.

PLAN FOR THE FUTURE

No successful organization stands still. There are always improvements to make, processes to optimize and costs to reduce. NetBackup provides extensive reporting and analytics to help understand historical results and trends, which helps paint a clear picture of the road ahead.

Point-and-click operational reporting—APTARE IT Analytics quickly identifies tape drive utilization, success rates and unprotected areas across NetBackup and provides contextual reporting based on line-of-business, geography or application across a heterogeneous environment.

Long-term trending and analysis—Better predict backup storage consumption by tracking growth rates over time, including pre- and post-deduplication, for easier ROI tracking and deduplication rates.

UNIFIED DATA PROTECTION FOR THE CLOUD-READY ENTERPRISE

NetBackup 8.3 reduces the staggering complexity of enterprise data protection with a unified solution built on converged infrastructure that easily scales while providing best-in-class performance for petabyte-level capacity and paves the way to IT as a service through convenient, self-service operation. It lays the foundation for universal data management, enabling rapid visualization of data and accelerated cloud adoption with minimal risk. As IT transforms from cost center to business enabler, NetBackup is engineered to solve the diverse challenges of today and tomorrow and ultimately give organizations the confidence to move faster and take bigger risks, trusting their information will be safe.

ABOUT VERITAS

Veritas Technologies is a global leader in data protection and availability. Over 80,000 customers—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at www.veritas.com. Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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