

Veritas NetBackup 9.1

Unified data management from edge to core to cloud.

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. At the core of our Enterprise Data Services Platform (EDSP), NetBackup is designed to offer rapid recovery of business-critical data across hybrid, physical, virtual, containerized apps and multi-cloud 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 organizations to protect their enterprise from the unforeseen and offers these key benefits:

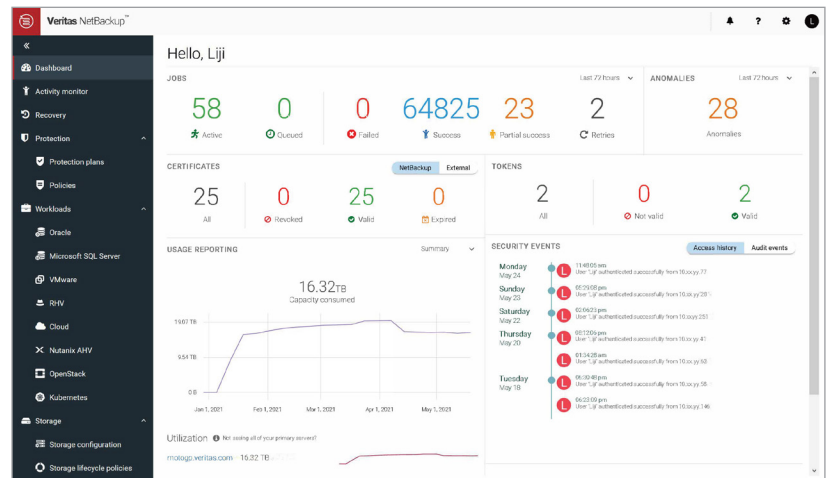


Figure 1. The NetBackup web UI dashboard conveniently displays a single, aggregated view of the most important information in one place.

NetBackup provides unmatched flexibility—Adopt any cloud, any workload, and any architecture at any scale with support for over 800 supported workloads, 1,400 storage targets and 60+ cloud providers, ensuring complete protection of the diverse ecosystem. NetBackup gives enterprises the choice to use the technologies businesses need and to keep data resilient while also providing the freedom to choose any deployment mode for NetBackup—NetBackup Flex, NetBackup Flex Scale, NetBackup Appliances, a cloud instance or build-your-own (BYO) server. 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). Our solution provides the infrastructure to integrate with future technologies, allowing you the freedom to adapt to your changing environment. Through automation and orchestration, NetBackup lets you efficiently manage current workloads and confidently migrate to future workloads.

NetBackup efficiently streamlines data management—As a unified solution to protect all data assets, NetBackup provides support for virtually every server, storage, hypervisor, database, application and cloud platform used by enterprises today. Featuring high performance, intelligent policy-driven automation and centralized management of workloads (see Figure 1), this unified data protection platform can protect any workload at scale, eliminating the need for point products. Access and manage the lifecycle of data and support rapid restore to and from anywhere. NetBackup provides an integrated experience for workload disaster recovery, migration and cloud data protection through the integration of NetBackup CloudPoint™ and Veritas Resiliency Platform; this provides simplified licensing using a single SKU and meter to NetBackup's comprehensive data protection platform.

NetBackup ensures resiliency at scale—NetBackup is designed to strengthen an organization’s resiliency in the face of the unknown and unexpected by providing rapid recovery from catastrophic business events—from lost files to ransomware attacks to data center downtime. Gain confidence in data integrity using identity and access management, data encryption and immutable storage security that help backup files remain safe and untouched from malicious invaders. NetBackup supports disaster recovery (DR) at scale across on-premises, hybrid and multi-cloud environments to meet specific recovery time objectives (RTOs) and recovery point objectives (RPOs). And because NetBackup supports a wide range of recovery options, organizations can choose the methods that best suit recovery needs, such as recovery at scale with NetBackup Resiliency™ or recovering multiple VMs using NetBackup Instant Rollback for VMware. From backup appliances to cloud storage, NetBackup integrates at every point in the technology stack to maximize reliability and performance.

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 all while enabling self-service and NetBackup Instant Access to your workloads from an intuitive web user interface (UI).

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 and hybrid cloud platforms including VMware vSphere, Microsoft Hyper-V, Nutanix AHV, Red Hat Virtualization, AWS Outpost, Microsoft Azure Stack, OpenStack, as well as containerized workloads.

Databases and applications—NetBackup integrates with leading relational, NoSQL databases and application platforms, including IBM DB2, SAP ASE/HANA, Exchange, SQL and SharePoint from Microsoft, Oracle DB, MariaDB, MySQL™, MongoDB, SQLite, Hadoop and HBase.

SQL self-service—NetBackup provides separation of duties between the backup administrator and the database administrator. The database admin can independently discover, manage credentials, schedule backups and perform restores of Microsoft SQL and can also use Instant Access to quickly browse or mount a database.

Universal shares—Ready-to-use, space efficient NAS-based storage target supports both SMB and NFS protocols and enables data protection for proprietary applications without the need for client software. Protection Points allow quick cataloging of stored data and provide Copy Data Management capabilities including instant recovery or access of data from any POSIX-compliant operating system. Additional capabilities include user quota management, Active Directory integration, support for API and NetBackup Appliances.

Storage systems—NetBackup protects data at the storage system level by integrating with various snapshots and the Network Data Management Protocol (NDMP) supported on Pure Storage, Dell EMC, HPE, Hitachi, IBM, NetApp and others. Using snapshots enables a fast point-in-time recovery and helps perform efficient backups. NetBackup Snapshot Manager includes support for Dell EMC PowerScale and Qumulo, providing a consistent tool for managing snapshots across multiple storage vendor platforms. NetBackup uses Dynamic NAS (DNAS) data protection to ensure automated protection of business-critical data on NAS storage with the ability to restore data anywhere (cloud, physical or virtual) as well as resume a backup or restore a job at a specific point in time without starting over with Checkpoint Restart. In NetBackup 9.1, utilize the enhanced support of NAS protocols to include CIFS/SMB along with the existing NFS to protect NAS environments.

Cloud platforms—NetBackup supports the backup and recovery of workloads within cloud environments by leveraging cloud-native snapshot technology on Google Cloud Platform (GCP), Microsoft Azure and Amazon Web Services (AWS). Use the NetBackup web UI to configure an MSDP cloud recovery server for image sharing to instantly recover data from cloud object storage in the event of a disaster or for dev/test needs (see Figure 2). Lower cloud compute costs with Cloud Autoscaling and optimize cloud storage costs by backing up data, snapshots to object storage using Azure Incremental snapshots.

NetBackup provides extensive support for cloud platforms, including Kubernetes, private and public clouds. *NetBackup for OpenStack*, is a cloud-native, API-driven solution that provides policy-based, comprehensive backup and recovery that integrates with the NetBackup web UI, and leverages a Horizon plugin for native tools integration. Our solution includes incremental backups with backup to NFS and S3. You can easily test these backups before recovery, optimizing your RTOs and RPOs. With *NetBackup for OpenStack*, you can efficiently restore an entire environment, a single virtual machine (VM), file, or an instant mount, or migrate to a new cloud.

NetBackup 9.1 introduces our Kubernetes-native solution that provides protection of containerized environments for multiple clouds and distributions. Both storage and Kubernetes-platform agnostic, NetBackup has the ability to discover, protect, and recover all application components across any Kubernetes distribution, on premises or in the cloud. With support for VMware Tanzu, RedHat OpenShift, and Google GKE and growing. *NetBackup for Kubernetes* provides integrated, scalable protection for all Kubernetes (K8s) deployments across all platforms and is specifically designed to protect and optimize Kubernetes environments; utilizing native Kubernetes constructs; leveraging Kubernetes APIs and custom operators, as well as Container Storage Interface (CSI) snapshots. *NetBackup for Kubernetes* provides discovery and protection of all components that make up an application in a namespace, on premise or in the cloud (Figure 3.). NetBackup also offers multiple options for the granularity of data recovery, from the entire namespace to rollback of persistent volumes. Through the intuitive NetBackup web experience, it seamlessly brings K8s protection into the NetBackup framework, making it efficient to protect and recover, simplifying management. *NetBackup for Kubernetes* was fundamentally designed to unlock the power of K8s— portability and elasticity— in order to provide integrated data protection and resiliency.

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.

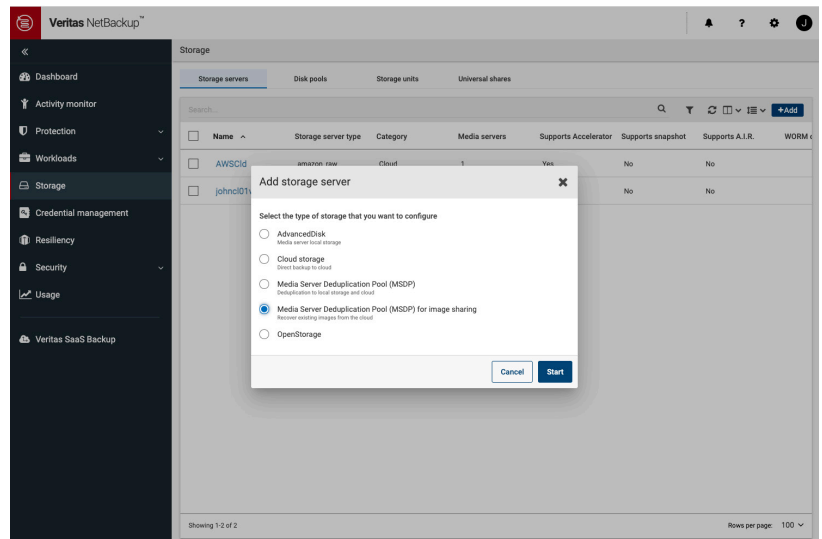


Figure 2. Configure a cloud recovery server through the web UI, introduced in NetBackup 9, using MSDP for image sharing to recover images from the cloud efficiently.

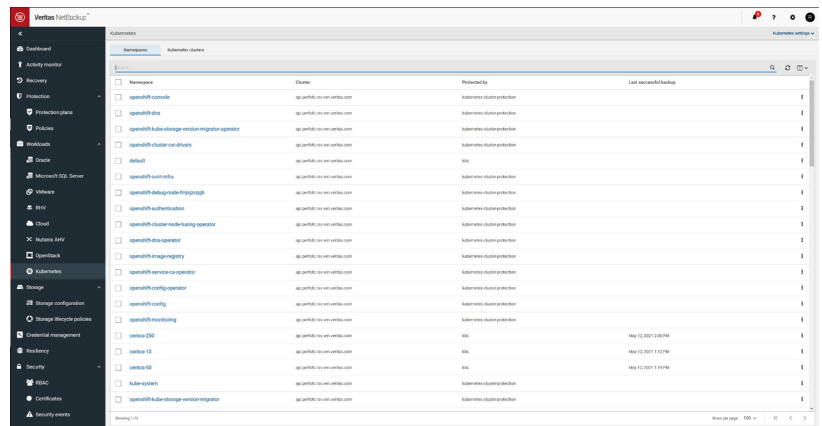


Figure 3. Within the NetBackup UI you can see all of the respective namespaces for a given distribution as well as how they are protected.

CHOOSE YOUR NETBACKUP DEPLOYMENT MODE AND QUICKLY DEPLOY

The modern enterprise must support a wide range of workloads and application owners with differing requirements and needs. In addition, the workloads and users will not only be in the core data center but in remote offices at the enterprise edge or working in hybrid cloud environments. NetBackup deployment mode options allow an enterprise to optimize its data protection infrastructure by choosing the right mix of deployment modes to support its breadth of workloads, users and environments to reduce data center footprint and minimize the total cost of ownership (TCO).

NetBackup Flex Scale and NetBackup Flex are offered as appliances; NetBackup can be used independently or as an integrated appliance.

NetBackup Flex Scale—Extend NetBackup with the simplicity, automation and scale-as-you grow features required by many organizations as they transform their data protection infrastructure with NetBackup Flex Scale. NetBackup Flex Scale's scale-out architecture delivers the economies of the cloud and the flexibility to easily expand capacity as an organization grows.

NetBackup Flex—Consolidate NetBackup domains, streamline the upgrade process and run multiple versions of NetBackup while reducing your data center footprint and minimizing TCO with NetBackup Flex. NetBackup Flex provides immutable and indelible storage that reduces the risk of malware or ransomware encrypting or deleting backup data, thereby making it unusable. To learn more about NetBackup ransomware resiliency solutions, visit the ransomware resiliency page on [Veritas.com](https://www.veritas.com).

NetBackup Appliance or software for BYO—For optimized performance and the fastest deployments, consider a NetBackup integrated Appliance (see Figure 4). Deploy NetBackup virtual or physical appliances or download NetBackup software for BYO or cloud instances. Leverage the cloud marketplace deployment options in AWS, Azure, GCP to get started and use a single solution template to deploy NetBackup CloudPoint along with NetBackup in AWS and Azure. Deploy NetBackup from the cloud marketplace in a matter of minutes to quickly protect VMware Cloud in AWS (VMC), or VMware Hyperscale partners like Azure VMware Solution. Utilize third-party configuration management tools like Chef or Microsoft SCCM to orchestrate custom enterprise deployments. For organizations expanding their NetBackup deployments, an integrated NetBackup Appliance is an ideal solution, that comes preinstalled with NetBackup software, hardened operating system, security software and all necessary hardware components, so you can set up in minutes. NetBackup Virtual Appliance provides a lower-cost alternative to existing NetBackup Appliance solutions for environments with smaller data protection requirements, and requires minimal on-site infrastructure management expertise. Veritas has also developed deployment templates for Chef & SCCM, so that customers can deploy NetBackup clients at scale.



Figure 4. The NetBackup 5250 Appliance is an integrated enterprise backup appliance with expandable storage and intelligent deduplication for physical, virtual and cloud environments.

CHOOSE YOUR STORAGE

Much has changed since the days of traditional tape backup. Enterprises now have many choices about 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 and NetBackup Flex immutable and indelible storage. The NetBackup OpenStorage Technology (OST) API supports immutability image management that is vendor-agnostic. Veritas is collaborating with immutable storage vendors to update their OST plug-ins so organizations can efficiently protect image data managed by NetBackup on third-party immutable appliances. NetBackup 9.1 introduces support for cloud-native immutable storage for AWS S3 Object Lock strengthening data compliance and data integrity.

To learn more about how NetBackup data protection ensures ransomware resiliency, refer to the white paper [Ransomware Resiliency with the Veritas Enterprise Data Services Platform](#).

OpenStorage Technology (OST)—OST is used to integrate NetBackup with a wide range of Veritas and third-party purpose-built backup appliances and storage appliances.

Cloud storage—NetBackup supports a growing list of third-party cloud storage providers such as AWS, Microsoft Azure and Google Cloud Platform (GCP) that can be easily incorporated into NetBackup policies. NetBackup deduplicates data before it's transferred and stored in the cloud, which reduces backup times and lowers your cloud infrastructure costs. Optimized deduped data is sent directly to cloud tiering for long-term retention through the support of AWS Glacier and the added support for Azure Archive. Additionally, with NetBackup 9.1 utilize cloud-native immutable storage for AWS S3 that prevents your data from being compromised.

Disk—Organize one or more ordinary disk volumes into disk pools to support spanning disks as well Capacity Management when using NetBackup Storage Lifecycle Policies.

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 enterprise-class media management to a massive selection of supported tape drive and robotic hardware configurations.

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 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 server. Intelligent policies for VMware, Oracle, SQL and NAS help optimize performance with continuous load balancing.

Identity and access management—Single sign-on (support for Active Directory and LDAP) and two-

factor authentication functionality is provided through the NetBackup web UI via SAML 2.0, so organizations can use their existing authentication provider. With role-based access controls (RBAC) within the web UI, you can configure granular access tailored to meet specific persona needs, identifying who can access data and defining what actions they can perform. Role-based templates help you streamline the process of role creation and management (see Figure 5). Users can only manage workloads they have been assigned and can only perform the range of tasks you authorize.

Enhanced Nutanix AHV support— NetBackup 9.1 provides the following enhancement to Nutanix environment: NetBackup Web User Interface now supports Nutanix AHV workloads listing virtual machines, AHV Clusters, and Intelligent VM Groups to further simplify and automated backup and restore for Nutanix customers; agentless support for single file folder recovery to deliver granular restores saving time, money and disruption; Nutanix resource throttling to optimize resources to automatically load-balancing backup jobs to safeguard that AHV users are not impacted by backups for a superior user experience, and Intelligent VM Group Filters provides customers the ability to logically group Nutanix VMs together to more efficiently manage their backup to ensure all machines are properly protected from data loss; self-service to streamline the role creation process for different levels of users to enforce user access without hindering end-user's ability to perform their job.

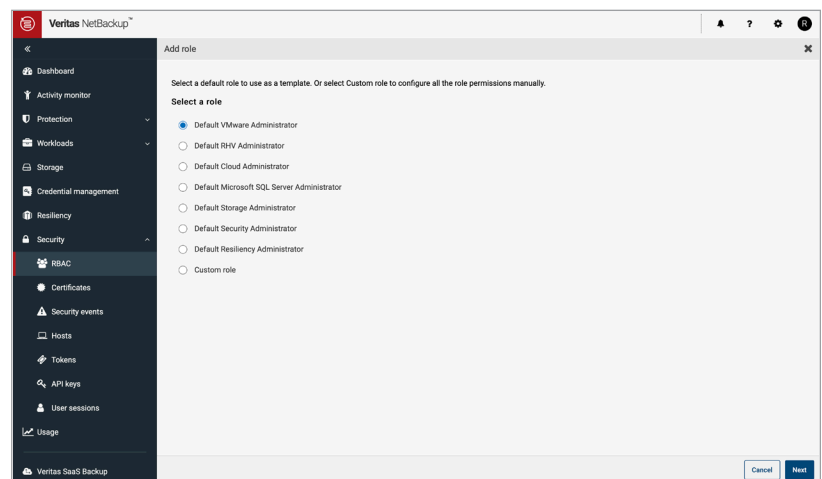


Figure 5. Select a default role to prepopulate permissions to optimize the creation of access roles or create a custom role.

Backup from cloud snapshots—Create a backup for a snapshot image for Azure and Azure Stack to seamlessly have backups readily accessible.

Cloud intelligent polices—Use NetBackup 9.1 to create and manage Intelligent Groups of cloud assets using simple queries. As cloud resources are added or removed from the environment, NetBackup automatically selects the discovered assets based on simple SQL-style queries and adds them to the designated group. Intelligent Groups can be defined for AWS, Azure, Azure Stack and GCP cloud providers in NetBackup 9.1.

Cloud Autoscaling—NetBackup 9.1 ensures that backups do not fail due to insufficient storage space by automatically provisioning additional target cloud capacity as needed. Cloud resources are dynamically re-sized, ensuring that protection needs are met, while also optimizing storage costs and resources. Supported with Microsoft Azure and Azure Stack.

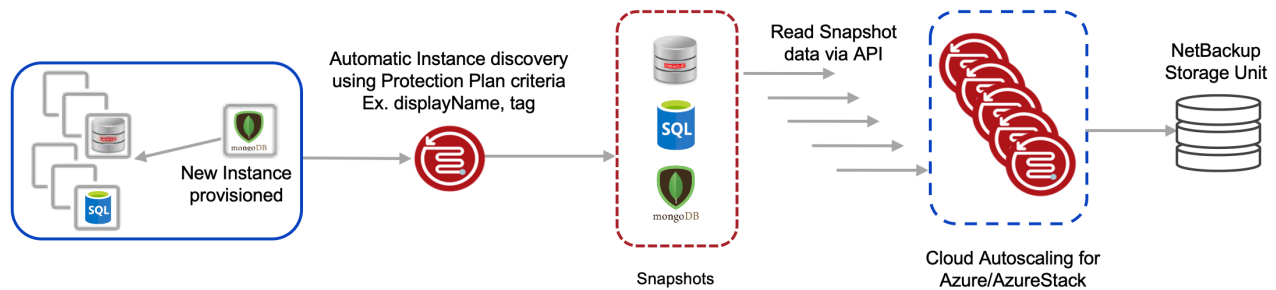


Figure 6. Showcases how backup for snapshots, Cloud Intelligent Policies, and cloud resource autoscaling works.

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 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.

Data encryption—Organizations can leverage Veritas or third-party TLS certificates to support encryption in transit. For encryption at rest, use Veritas key management or third-party key management when a Key Management Interoperability Protocol (KMIP) interface is supported. Data is protected from compromise within the network and ransomware or malicious invaders are prevented from stealing your data and using it for malicious intent. NetBackup provides the freedom to choose the encryption solution that works best for your environment.

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.

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

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.

RESCUE YOUR BUSINESS, PREPARE FOR DISASTER RECOVERY, AND BE RANSOMWARE RESILIENT

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

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

NetBackup Bare Metal Restore™— Quickly recover from bare metal with Bare Metal Restore, which includes support for iSCSI disks as well as Physical to Virtual (P2V) to eliminate the need for manual reconfiguration. Leverage a VM to be up and running quickly in the event of physical hardware failure.

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.

Leverage immutable storage—To keep your data secure and compliant utilize immutable storage on-prem with NetBackup Flex and in the cloud with AWS S3 Object Lock as well as with immutable storage vendors (NEC, HPE) via OST, to prevent your data from being compromised.

NetBackup Instant Rollback for VMware—NetBackup 9.1 provides high speed, Instant Rollback for VMware by leveraging Change Block Tracking to identify what unique blocks need to be recovered, and applying just those changes to bring your virtual machine back to a healthy state—from a disaster or ransomware attack—in seconds instead of minutes and hours.

NetBackup's continuous data protection (CDP) for VMware—Provides added resiliency through granular recovery points of VMware virtual machines (VMs) with a low RPO. CDP ensures recovery capability for VM workloads including ability to recover files and folders across your heterogenous environment using granular recovery points. NetBackup 9.1 introduces CDP for VMware and streamlines data protection by having less impact on running workloads.

Recover from any copy with MS SQL—With 9.1 enable simple recovery of MS SQL Server databases from any storage copy via Web UI and APIs to ensure quick access to your data

Data Guard Intelligence for Oracle— With 9.1 enable Oracle Intelligent Policy to associate Data Guard configurations and enable protection of nodes without any change from the DBA or policy ensuring that all data is protected and secure. The data in these configurations are protected through the various state changes of Data Guard.

Artificial intelligence (AI) powered anomaly detection —Strengthening our comprehensive ransomware resiliency strategy, introduced in NetBackup 9.1, NetBackup AI powered anomaly detection detects and alerts of suspect behavior at the time of backups. This ensures that your data is always recoverable, and enables businesses to take immediate action when ransomware strikes, isolating backups with malware and limiting its impact.

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.

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. Access NetBackup Resiliency directly from the NetBackup web UI and visualize all VMs associated with it (See Figure 8).

With NetBackup Resiliency ensure that Service Level Objectives (SLOs) are maintained. SLOs are important to ensure that mission critical and operational services are available with minimal impact. Typically availability, data loss, and recovery time are metrics that define SLOs for Business Continuity and Disaster Recovery. Recovery point objectives (RPOs) define the organization’s risk tolerance with respect to data loss in the event of an outage. Mission critical services will typically have a low RPO requirement of less than 15 minutes of data loss, but they will also have a requirement for some data copy services such as backup for a 24, 12 or 6 hour period or less (Figure 9). Multi-Level SLOs provide a choice of recovering services with either a low RPO, or reverting to use a backup image as a means of recovery. Introduced in 9.1, create multiple SLOs for recovery and this capability provides multiple options during an actual DR event—or through a simulated DR event, which can provide guidance on whether the SLO is achieved, based on how long it takes to recover from an outage. Allowing customized recovery plans based on specific SPO needs of different application tiers. When using Multi SLOs within Resiliency Platform, you can ensure that your SLOs are met while still having flexible options for recovery.

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

Seamless workload and data portability in hybrid-cloud—Ensure workload mobility between physical or virtual on-premises systems to public cloud environments for maximum flexibility and optimized resource utilization. Enable resiliency and mobility between Azure Stack environments or between Azure regions.

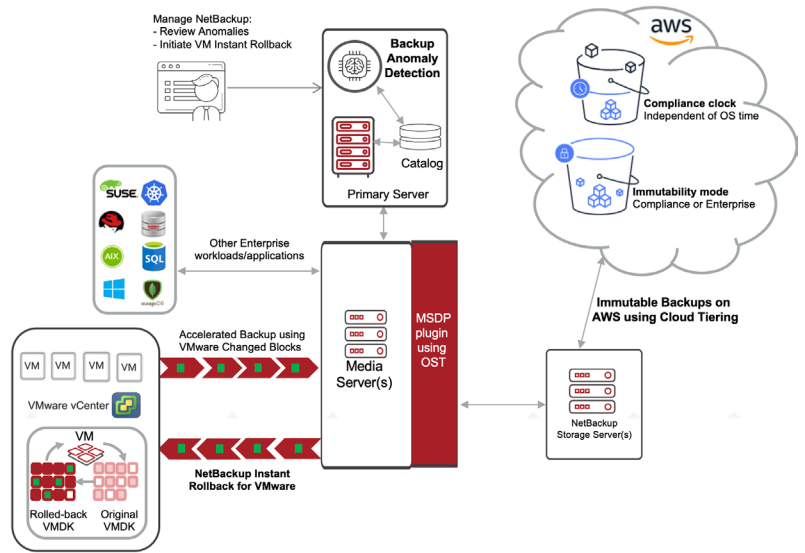


Figure 7. Showcases how immutable storage with AWS, NetBackup Instant Rollback for VMware, and anomaly detection works to keep your data secure and resilient.

Name	RPO	State	Recovery readiness	Platform	Server	Protection	Resiliency group
rheLsmall_19_cd	On	High	VMware	infopress13.english.net	Backup (AWS)	test_13vm14	
rheLsmall_15_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	
rheLsmall_20_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	
rheLsmall_18_cd	On	High	VMware	infopress13.english.net	Backup (AWS)	test_13vm14	
rheLsmall_16_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	
rheLsmall_14_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	
rheLsmall_11_cd	On	High	VMware	infopress13.english.net	Backup (AWS)	test_13vm14	
rheLsmall_13_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	
rheLsmall_17_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	
rheLsmall_12_cd	On	High	VMware	infopress14.english.net	Backup (AWS)	test_13vm14	

Figure 8. Resiliency integration within the NetBackup web UI.

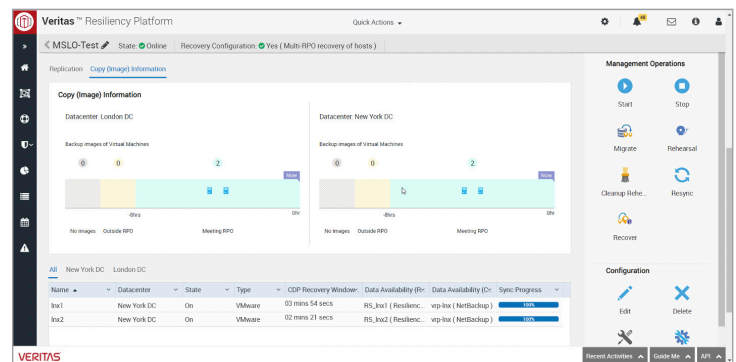


Figure 9. Utilize Multi-SLO to leverage backup and replication recovery options to ensure RPO and RTO requirements.

UNIFIED DATA PROTECTION FOR THE CLOUD-READY ENTERPRISE

NetBackup 9.1 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. NetBackup empowers organizations by improving the resiliency of their applications and infrastructure from edge to core to cloud by protecting their data and ensuring recovery—at scale anywhere it resides. Plus it provides the freedom to choose any NetBackup deployment mode that best suits business needs and requirements. With hundreds of patents awarded to Veritas in areas including cloud, containers, backup, recovery, virtualization, I/O optimization, deduplication and snapshot management, NetBackup continues the advancement of bringing advanced technologies to market first. With NetBackup your data is protected, recoverable and compliant with enterprise-grade management.

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. With 2,000+ developers worldwide, 2,140+ global patents and 800+ supported workloads as well as 1,400+ storage targets and 60+ cloud providers, Veritas is the embodiment of innovation.

ABOUT VERITAS

Veritas Technologies is a global leader in data protection and availability. Over 50,000 enterprises—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).

2625 Augustine Drive, Santa Clara, CA 95054
+1 (866) 837 4827
www.veritas.com

For specific country offices and contact numbers, please visit our website.
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