

# NetBackup Version Comparison

One platform, with an all-inclusive licensing and pricing model.

Features	8.3	9	9.1	10	10.1	10.2	10.3	Notes
Extensive workload support	✓	✓	✓	✓	✓	✓	✓	Widest support from edge to core to cloud with 800+ data sources, 1,400+ storage targets, and 60+ cloud providers.
Role-based access control (RBAC)	✓	✓	✓	✓	✓	✓	✓	8.3 provided more granular access controls. 9 added role-based templates to help with role creation and management.
Authentication and auditing	✓	✓	✓	✓	✓	✓	✓	8.3 added SAML 2.0 support for single sign-on in the web UI and user auditing by sending user audit logs to the syslog.
Encryption in transit and at rest	✓	✓	✓	✓	✓	✓	✓	8.3 added support for third-party key management with KMIP integration, 2048-bit or higher keys for NetBackup Certificate Authority (CA) to ensure data integrity throughout the data journey.
Multi-factor authentication (MFA) Everywhere							✓	Extend MFA across all product interfaces - GUI, CLI, SSH - further reducing attack surfaces.
Multi-Person Authorization for Critical Operations							✓	Prevents malicious operations (data deletions, etc.) from being performed if a user's workstation is compromised - a designated approver must confirm before the operation can proceed.
TLS 1.3 support	✓	✓	✓	✓	✓	✓	✓	Faster and more secure data encryption for both in-transit and at-rest data.
FIPS 140-2-compliant				✓	✓	✓	✓	Validated FIPS 140-2 cryptographic module for Filesystem, Oracle, Microsoft SQL, SAP HANA, IBM DB2, VMware, Microsoft Hyper-V, Red Hat Virtualization, Nutanix AHV, DynamicNAS, MongoDB, Hadoop, HBase, MySQL, PostgreSQL, SQLite, MariaDB, Microsoft SharePoint, NetBackup Snapshot Manager, NetBackup Flex Appliances, and for data at rest in all target storage controlled by NetBackup.
Long-term retention (LTR)	✓	✓	✓	✓	✓	✓	✓	Keep backup images for an extended period of time and be able to recover efficiently. 9 introduced longer data retention.
Isolated Recovery Environment (IRE)				✓	✓	✓	✓	NetBackup 10.1 expands IRE support by eliminating the need for additional infrastructure when isolating and protecting data. This allows NetBackup to create an isolation boundary around an existing firewall and to use the pull method to move data without the risk of introducing malicious activity from production to an environment. The latest release builds upon advancements introduced in NetBackup 10 including the use of a Flex based, push model IRE.
Immutability with NetBackup and NetBackup Flex running on Appliances	✓	✓	✓	✓	✓	✓	✓	Hardened Appliances. NetBackup support for immutable storage (NetBackup OpenStorage Technology [OST]) and NetBackup Flex help prevent ransomware from encrypting or deleting backup data.
Recovery at scale	✓	✓	✓	✓	✓	✓	✓	Hardened Appliances. NetBackup support for immutable storage (NetBackup OpenStorage Technology [OST]) and NetBackup Flex help prevent ransomware from encrypting or deleting backup data.

Recovery at scale	✓	✓	✓	✓	✓	✓	✓	NetBackup integration with Resiliency Platform, introduced in 8.3, provides multi-SLO automation and orchestration to simplify recovery at scale. NetBackup 10.1 delivers Orchestrated Recovery to recover VMware VMs into Azure Using Image Sharing.	
Immutable Object Lock storage support			✓	✓	✓	✓	✓	AWS (9.1), Microsoft Azure, Hitachi Content Platform, Cloudian HyperStore, and Seagate Lyve Cloud S3 Object Lock immutable storage support.	
Artificial intelligence (AI)–powered anomaly detection			✓	✓	✓	✓	✓	Detects and alerts of suspect behavior at the time of backups. This feature ensures data is always recoverable and enables businesses to take immediate action when ransomware strikes, isolating backups with malware and limiting its impact.	
Anomaly Detection user behavior enhancements							✓	Ability to identify system-level or user behavior anomalies using ML and audit trails.	
Malware detection integration				✓	✓	✓	✓	Integration with malware scanners to scan backup images from MSDP.	
Malware scan automatic pausing of backup activities					✓	✓	✓	Automatically pause data protection activities for the protected asset when an infection in a backup image is detected. These include backups, duplication, and expiration activities.	
Parallel Malware scan						✓	✓	Configure the number of concurrent scans to maximize efficiency while tracking the real-time progress of each job.	
Inline Malware Scanning during recovery							✓	Integrated malware scanning during restore, and support for cloud VMs and Universal Shares.	
Malware scan Virtual Machines					✓	✓	✓	Malware scans can be used to identify the “last-known-good” backup before restoring for Virtual Machine workloads.	
Security/Early Warning systems (SIEM/SOAR)					✓	✓	✓	Integration with SOAR/XDR platforms to pause or resume data protection activities based on security or maintenance events. Anomaly and malware scan alerts stored within system logs can be ingested easily by early warning systems such as SIEM platforms.	
Integration with Cloud-based SIEM/ SOAR						✓	✓	Use the push method to transmit audit events from NBU to cloud-based SIEM/SOAR directly with support for Azure Sentinel.	
2FA/SAML for Java UI			✓	✓	✓	✓	✓	Enhanced secure login for customers using the Java Admin Console.	
Credential Management System support for MSSQL workloads							✓	✓	Automate external credential management and scalability across complex multi-domain systems.
NetBackup Flex	✓	✓	✓	✓	✓	✓	✓	8.3 introduced immutable and indelible storage support.	
TLS 1.3 support			✓	✓	✓	✓	✓	Faster and more secure data encryption for both in-transit and at-rest data.	
NetBackup SaaS Protection			✓	✓	✓	✓	✓	9.1 was released concurrently with the launch of NetBackup SaaS Protection, introducing SaaS application data protection for Microsoft 365, Slack, and Box. 10 adds integration between NetBackup and NetBackup SaaS Protection, the ability to replicate SaaS backup data to an on-premises Access appliance, and data protection for Google Workspace.	

NetBackup Appliance or software for BYO	✓	✓	✓	✓	✓	✓	✓	Deploy NetBackup virtual or physical appliances or download NetBackup software for BYO or cloud instances. Use third-party configuration management tools like Chef or Microsoft SCCM to orchestrate custom enterprise deployments.
MSDP (Media Server Deduplication Pool) direct cloud-tiering	✓	✓	✓	✓	✓	✓	✓	8.3 added support for tier directly from MSDP. 9 added web UI support to configure a recovery server for image sharing. Support Direct Writing to Azure Archive Tier, Performance Improvements for Ushare Ingest of Large DBs (10+ TB)
Instant Access on MSDP based on Object Storage					✓	✓	✓	Access data directly from backup storage, providing a virtual file system view of data that is compressed, encrypted, and deduped.
Enhanced Media Server Elasticity and Intelligence							✓	Optimize spin-up to incrementally improve efficiency with the smallest deployment of a media server image.
CPaaS Use Managed Identity IAM Based Azure Plugins					✓	✓	✓	Improved and modernized cloud-native security model allows for IAM roles-based security for NBU snapshot manager.
Replication Orchestration for Snapshot Manager						✓	✓	Configure NetBackup Snapshot Manager Service in the NBU Web-UI and manage "Backup from Replica" with the array's replication Data Mover to streamline replication.
Cloud-native backup solution	✓	✓	✓	✓	✓	✓	✓	Cloud-native workloads through the integration of NetBackup Snapshot Manager.
Cloud snapshot granular recovery	✓	✓	✓	✓	✓	✓	✓	Direct recovery of individual files and folders through the web UI without having to roll back the entire snapshot first. 9 introduced Azure incremental snapshots, saving costs and optimizing cloud storage space.
Workload and data portability to Azure Stack and Azure	✓	✓	✓	✓	✓	✓	✓	New Azure Stack to Azure Stack and Azure Stack to Azure portability/resiliency.
Incremental Backup Support for Azure SQL and Azure SQL MI							✓	Protection for Azure SQL workloads with minimal overhead, compute, and storage requirements.
Image sharing with Azure and AWS S3	✓	✓	✓	✓	✓	✓	✓	Compatible object storage.
Expanded S3 Immutability Support							✓	Immutable object lock support available for IBM Cloud Object Storage, Data Core Cloud Cluster Storage, and NetApp Storage Grid.
Disaster recovery (DR) to the cloud	✓	✓	✓	✓	✓	✓	✓	Automated, orchestrated, DR at scale to the cloud.
At-scale push-button business DR to the cloud	✓	✓	✓	✓	✓	✓	✓	At-scale DR of business units in the cloud and between clouds.
Cloud snapshot orchestration	✓	✓	✓	✓	✓	✓	✓	Enabling application-aware snapshots, single-file recovery, and multi-region snapshot migration.
Unified single-server deduplication	✓	✓	✓	✓	✓	✓	✓	Optimize costs and cloud storage usage with deduplication.
Dedupe to object storage, including AWS Glacier, Azure Archive, and Deep Archive tiers	✓	✓	✓	✓	✓	✓	✓	Reduce the cost of bandwidth and cloud storage. Common data is factored out before sending to the cloud. 9 introduced support for Azure Archive.

Automate public cloud deployment with marketplace images	✓	✓	✓	✓	✓	✓	✓	Simplified deployment directly from public cloud marketplaces (AWS/Azure/Google Cloud Platform). 9.1 enabled NetBackup Snapshot Manager co-deployment with NetBackup for AWS and Azure.
Backup from cloud snapshots			✓	✓	✓	✓	✓	Leverage SLP policies to move contents of snapshots to NetBackup storage for cost savings. Now includes Recovery Vault as a backup destination.
Cloud Intelligent Policies			✓	✓	✓	✓	✓	Create and manage intelligent groups of cloud assets using tags and attributes to ensure AWS, Azure, Azure Stack, and GCP cloud assets are protected.
Cloud autoscaling			✓	✓	✓	✓	✓	Cloud resources are dynamically re-sized, ensuring protection needs are met while optimizing storage costs and resources.
Multi-tier backup copies				✓	✓	✓	✓	Ensure data is not only protected and to alternate locations but is stored in lower-cost storage in a deduplicated format to avoid high, unexpected cloud costs.
Backup and Recovery support for PaaS workloads					✓	✓	✓	Full backup and recovery support for PaaS workloads, including 9 workloads across three clouds: <ul style="list-style-type: none"> <li>▪ Azure SQL/MI Azure DB for Sybase and MySQL</li> <li>▪ Amazon DynamoDB, RDS Sybase and MySQL</li> <li>▪ Google PostgreSQL and MySQL</li> </ul> PaaS workloads will be automatically discovered and can create a protection plan for the databases and enact it autonomously, providing fast and agile support for new workloads.
Oracle Self-Service Recovery							✓	Recover an entire Oracle system completely within the NetBackup user interface - either through automated recovery via API, or a delegated recovery via RBAC.
Incremental backup support for PaaS workloads						✓	✓	Extract incremental data from the workload referencing against the point in time of the previous full backup.
PostgreSQL Self Service & MySQL Self Service					✓	✓	✓	Control PostgreSQL and MySQL deployments with autodiscovery of deployed databases, intelligent policy with scriptless protection and restore capabilities via wizard.
Automated Recovery of PostgreSQL and MySQL Databases						✓	✓	Eliminate the manual lift of extracting, updating, and attaching databases and instances to PostgreSQL and MySQL when performing a recovery task.
Azure SQL PaaS workloads				✓	✓	✓	✓	Discovery of existing Azure SQL protection outside of NetBackup and the ability to initiate an Azure SQL restore.
Support for AWS PrivateLink with MSDP-C				✓	✓	✓	✓	Connect to and use AWS PrivateLink with NetBackup MSDP-C.
Cloud Region Resiliency for AWS					✓	✓	✓	Resiliency across AWS regions to provide quick RTO and Low RPO for workloads.
Resiliency Platform marketplace install for Google Cloud Platform (GCP)				✓	✓	✓	✓	Cloud marketplace offerings now available for NetBackup and Resiliency Platform family.

Multi-volume snapshot support				✓	✓	✓	✓	Ability to configure consistency groups that are snapped at the same point in time using FlexSnap. This is a common requirement for customers that have applications with data spanning multiple volumes.
Accelerator backup from snapshot				✓	✓	✓	✓	When backing up from snapshots in the cloud, provides the ability to use the NetBackup Accelerator feature.
OpenStack enhancements	✓	✓	✓	✓	✓	✓	✓	Supports significantly more functionality for OpenStack, including integrating into the NetBackup Web UI with plug-in support for Horizon integration, providing incremental backup, restore of a single VM or file, quota integration, and tenant-level, self-service protection.
Cassandra database support					✓	✓	✓	Support for Cassandra big data workloads with cluster-consistent agentless backup and recovery. Backup Cassandra workloads when a cluster is in use or active and granularly restore from table or keyspace level.
Support for Kubernetes (K8s)			✓	✓	✓	✓	✓	Backup and recover namespaces on platform-agnostic (storage and Kubernetes) deployments with RBAC enabled self-service from the NetBackup web UI. Leverage K8s APIs, custom operators, and Container Storage Interface (CSI) snapshots.
Extend CSI-based snapshot support (the standard for Kubernetes)							✓	Support backup from snapshot for block-based and file-based storage in the same namespace allowing for parallel stream recovery.
Kubernetes Duplication of Backup Copy and AIR Support					✓	✓	✓	Image duplication for the tiering of backup storage (service lifecycle policies, "SLP") and AIR are built-in.
Database-consistent backups for Kubernetes (K8s)			✓	✓	✓	✓	✓	Protect any database in an application-consistent manner.
Kubernetes (K8s) cluster recovery			✓	✓	✓	✓	✓	Recover an entire Kubernetes cluster in case of a disaster.
Data movement for Kubernetes (K8s)				✓	✓	✓	✓	Support for any NetBackup storage target available in the web UI, including deduplication. Added Client side dedupe for optimization of the network to reduce cost and overhead. Ability to make multiple backup copies for storage tiering for additional storage savings and SLA management.
Kubernetes (K8s) instant rollback from snapshot				✓	✓	✓	✓	Ability to instantly rollback Kubernetes namespaces from snapshots. Ability to set different retentions on snapshot and backup copy.
Automated protection for Kubernetes (K8s) - Intelligent Policies				✓	✓	✓	✓	Create and manage intelligent groups of Kubernetes assets using labels to ensure your Kubernetes cluster and assets are protected along the ability to include/exclude resources.
Kubernetes (K8s) distribution mobility				✓	✓	✓	✓	Backup in one distribution, recover to another for distribution mobility and disaster recovery.
FIPS Compliance for K8 Workloads (on RHEL Based VMs)							✓	Provides a higher level of security for Kubernetes workload protection meeting FIPS requirements for any RHEL-based VMs.

Perform VMware single- file recovery or any file system	✓	✓	✓	✓	✓	✓	✓	Ability to recover granular data.
Malware Scanning for VMs and Unstructured Data					✓	✓	✓	Integrated malware scanning for VMware workloads and Unstructured data catalog and recovery.
Support for vTPM (Virtual Trusted Platform Module)	✓	✓	✓	✓	✓	✓	✓	Allow backup and restore of virtual machines (VMs) that use vTPM for high-security environments.
vCloud discovery enhancements	✓	✓	✓	✓	✓	✓	✓	Reduce discovery time in very large environments from hours to minutes.
VMware agentless everywhere	✓	✓	✓	✓	✓	✓	✓	Agentless backup and recovery, including single-file recovery and instant access.
VMware performance enhancements	✓	✓	✓	✓	✓	✓	✓	Discovery is over 50x faster, allowing jobs to start sooner.
Support for VMware Cloud Foundation (VCF)	✓	✓	✓	✓	✓	✓	✓	Support for VMware Cloud, HyperScale Partners, and integrated systems, including Dell EMC VxRail.
Support for VMware vRealize, vSphere 7, and ServiceNow plug-ins	✓	✓	✓	✓	✓	✓	✓	Automated workflows enable easier management.
NetBackup instant rollback for VMware			✓	✓	✓	✓	✓	Perform instant recovery of production VMs by leveraging Change Block Tracking to only recover unique blocks to a healthy state.
Continuous Data Protection (CDP) for VMware			✓	✓	✓	✓	✓	Leverage stun-free backups of VMware VMs with low-RPO, providing added resiliency through granular recovery points with the ability to recover files and folders.
VMware on-cloud support for in-guest IO tap				✓	✓	✓	✓	To support VMware on public cloud deployments the data mover technology will need to be leveraged from within the guest OS because the VAIO framework is disabled by default by VMware when deploying vSphere within the public cloud.
Support for Nutanix AHV	✓	✓	✓	✓	✓	✓	✓	Protection including Accelerator, incremental support, licensing, and HMI plug-in hypervisor policy support.
Improved Cloud VM Restores							✓	Improved user experience and control, with enhancements that improve manageability and cost tracking.
Nutanix AHV self-service			✓	✓	✓	✓	✓	Enforce access and control through the streamlined role creation process using the web UI.
Support for agentless file and folder restore for Nutanix AHV			✓	✓	✓	✓	✓	Quickly recover a single file or folder to ensure quick access to data.
Nutanix AHV data management			✓	✓	✓	✓	✓	Agentless support for single file folder recovery. Support for VM group filters to classify the different types of protection they want to assign to each group. Inclusion of application-consistent backups. Resource throttling control to set resource limits during backup.
Nutanix AHV restore from snapshot				✓	✓	✓	✓	Restore Nutanix VMs from snapshot without additional load on the network, Nutanix AHV cluster, and NetBackup media server.

Support for Oracle and Oracle RAC	✓	✓	✓	✓	✓	✓	✓	RAC backup improvements (ported functionality to the web UI) and load balancing with Oracle Intelligent Policies in 8.3.
Oracle Instant Access using Multiple Universal Shares Protection						✓	✓	Protect large Oracle databases across multiple universal shares and MSDP storage Pools and NBFS protection of Oracle data that is larger than the capacity of one node in the MSDP-X cluster.
Big Data and DB Support				✓	✓	✓	✓	Expanded Protection/Recovery support for Cassandra and Oracle databases
Support for MS-SQL workloads	✓	✓	✓	✓	✓	✓	✓	Database admin self-service/web UI integration in 8.3.
Oracle deduplication direct				✓	✓	✓	✓	Lightweight plug-in to backup and restore directly to and from MSDP.
Universal Shares for Oracle				✓	✓	✓	✓	Get all the benefits of Copilot on any Universal Share, no longer limited to Appliances. Enables an incremental forever strategy enabling quick RTO objective and minimized backup window.
Additional MS-SQL recovery option			✓	✓	✓	✓	✓	Recover from any copy, not just the primary, for MS SQL, ensuring quick access to data.
Instant Access with MS-SQL databases for NetBackup Appliances and BYO	✓	✓	✓	✓	✓	✓	✓	Accelerated recovery for an improved, web-based customer experience.
Support for Oracle Wallet	✓	✓	✓	✓	✓	✓	✓	Access control of databases.
Oracle Data Guard			✓	✓	✓	✓	✓	Support for Oracle Data Guard in Oracle Intelligent Policies to streamline data.
Universal Share support with BYO and NetBackup Appliances	✓	✓	✓	✓	✓	✓	✓	Added support for BYO in 8.3.
Universal Share web support					✓	✓	✓	Universal Share Self-Service Recovery via Web UI
Quota and HA support for Universal Shares on Appliances	✓	✓	✓	✓	✓	✓	✓	Automatic failover if a node goes down plus the ability for the storage admin to restrict how much data can go into a share.
NAS data protection based on NDMP	✓	✓	✓	✓	✓	✓	✓	Protocol used to protect NAS that is not flexible and provides NAS storage vendor lock-in. 9 added support to create an NDMP policy through the web UI.
NAS data protection with Dynamic NAS (DNAS) data protection		✓	✓	✓	✓	✓	✓	Support for traditional snapshot-based protection of NAS devices, data portability, automatic performance tuning, and simplified administration for NFS 9 introduced a resume backup or restore at a point in time rather than start at the beginning with checkpoint restart.

Dynamic NAS (DNAS) Data Protection for CIFS/SMB				✓	✓	✓	✓	Added support for CIFS/SMB.
Malware scanning support for DNAS workloads						✓	✓	Quickly and easily recover the “last known good” backup, reducing downtime while ensuring constant protection.
NAS Parallel Recovery from DNAS Backup						✓	✓	Accelerate recovery by leveraging parallel recovery streams to increase the throughput of backup processing.
DNAS Performance Improvements							✓	Major speed improvements in throughput and optimization improvement for discovery and I/O
Support for MongoDB	✓	✓	✓	✓	✓	✓	✓	Protect single or multiple instances of Mongo in sharded or non-sharded environments for community or enterprise version 3.4/3.6/4.0. 9 added support for MongoDB v5.0, zLinux Support.

### Modern UI & Integrations

Features	8.3	9	9.1	10	10.1	10.2	10.3	Notes
Simplified UI and added workloads and features (RBAC, new workloads, API)	✓	✓	✓	✓	✓	✓	✓	Improvements to BMR capability in APIs and Web UI. Added Nutanix AHV, Kubernetes, NetBackup Instant Rollback for VMware, and more.
Built-in cloud snapshots and DR orchestration		✓	✓	✓	✓	✓	✓	Integrated NetBackup Snapshot Manager and Resiliency Platform to introduce a unified experience that delivers cloud-native protection and DR orchestration directly from NetBackup. NetBackup 10.1 expands management support and introduces backup from snapshot for GCP and expands protection with S3/Blob discovery and setup plug-ins for Snapshot Manager.
Reduce Java footprint	✓	✓	✓	✓	✓	✓	✓	8.1.2 added VxUpdate for client upgrades and EEB deployment. 8.2 expanded VxUpdate to handle BYO media servers. 8.3 and 9 reduced Java footprints leveraging the intuitive web UI.
NetBackup SaaS Protection monitoring				✓	✓	✓	✓	Ability to monitor NetBackup SaaS Protection policies using the same NetBackup web UI.
NetBackup IT Analytics Foundation				✓	✓	✓	✓	A NetBackup-only subset feature set for reporting, alerting, dashboards, and access to the NetBackup web UI. Available only for customers purchasing NetBackup 10.x or later with a new subscription.
VMware vCloud Director Integration					✓	✓	✓	Incorporates VMware vCloud Director functionality into the NetBackup Web UI, allowing administrators to more easily manage their vCD environments at scale.

To compare features from prior NetBackup versions, visit the [What's New](#) webpage. To learn about the latest version of NetBackup, visit [veritas.com/protection/netbackup/whats-new](https://veritas.com/protection/netbackup/whats-new).

### About Veritas

Veritas Technologies is a leader in multi-cloud data management. Over 80,000 customers—including 91 percent of the Fortune 100—rely on Veritas to help ensure the protection, recoverability, and compliance of their data. Veritas has a reputation for reliability at scale, which delivers the resilience its customers need against the disruptions threatened by cyberattacks, like ransomware. No other vendor is able to match the ability of Veritas to execute, with support for 800+ data sources, 100+ operating systems, 1,400+ storage targets, and 60+ clouds through a single, unified approach. Powered by Cloud Scale Technology, Veritas is delivering today on its strategy for Autonomous Data Management that reduces operational overhead while delivering greater value. Learn more at [www.veritas.com](https://www.veritas.com). Follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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