

# ***NetVault<sup>®</sup>: Backup***

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Easy to Use

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Advanced

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Data

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Protection

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# NetVault® Backup

**Data protection is critically important** to your organization and you'll personally feel the impact if something can't be restored, the problem is that you also have many other duties that are crucial and immediate.

It's no secret that the challenges associated with data protection have changed dramatically – and will continue to change – courtesy of technological progress. Advances in the art and science of data protection, coupled with a highly competitive global economy and increasing concerns surrounding compliance have left organizations of all sizes demanding faster Recovery Time and shorter Recovery Point Objectives (RTOs and RPOs) – all while trying to keep a grip on shrinking IT budgets.

At BakBone Software, we have a deep understanding of the data protection challenges that lead to your hectic days and sleepless nights. Our goal is to provide you with the tools to tackle these challenges head-on, and do it with strict attention to ease of use, flexibility of deployment and lower total cost of ownership. With that in mind, we'd like you to meet **NetVault: Backup**. We realize that traditionally you've had to choose between two types of data protection products - those that were easy to use but somewhat limited in functionality and ones that were comprehensive, but difficult to deploy and manage.

NetVault: Backup breaks the data protection mold by combining unsurpassed ease of use and advanced functionality, along with pain-free, scalability. This enables you to custom tailor NetVault: Backup to match the changing landscape of your organization's IT infrastructure – without a rip and replace of what you've already deployed. But, don't just take our word for it. Ask the thousands of people in small to medium enterprises as well as very large global 500 companies who use NetVault: Backup to **protect their organizations** - not to mention their careers!

INTRODUCTION

So, how did we accomplish that? Before we talk about great features and enticing benefits, let's first talk about the core belief that shapes the ongoing development of NetVault: Backup – **the power of simplicity**. While it is an absolute necessity, the general perception of backup and recovery is that it is not always enjoyable or exciting. In fact, many IT administrators would likely tell you that having less time and effort wrapped up in backup and recovery processes would give way to more interesting and strategic initiatives.

Second, we fully understand that the world (and your organization) changes all the time, so we engineered NetVault: Backup to not just keep up with, but to take full advantage of those changes.

Finally, when it comes to IT budgets, we understand it: budgets are not unlimited – in fact, they are shrinking in many cases. **NetVault: Backup was architected to protect and leverage your existing investments** in data protection while making necessary changes and upgrades to support the growth and health of your organization.



### **The Power of Simplicity**

As an IT professional in today's economy, you likely have multiple areas of expertise. Obviously, you want to maintain your proficiency in these and perhaps take on even more responsibility to demonstrate your increasing value to your organization. You can easily become more proficient in backup and recovery too - without losing ground or missing a beat in other more visible tasks. For example, with the powerful NetVault: Backup Application Plugin Modules you are not required to script backup and recovery jobs. You select the backup strategy that best fits your database or email environment and then just point and click. Who knew that backup and recovery of your organization's most critical applications and databases could be so easy? We did. Now you do too.

How about virtualization protection? Same holds true here. No scripting required. You don't need to understand storage, database or email internals – yet you can become the “Virtualization or SQL Server or ... backup specialist”- even more reason to keep you around – and keep you happy! NetVault: Backup protects your data and applications from a common console without distracting you from priority tasks that you need to do as well as the fun things you want to do. Plus, when that next promotion or appealing opportunity comes along, NetVault: Backup's ease of use will make it that much simpler to have a new person step in to assume the data protection responsibilities.

Basically, NetVault: Backup is enterprise level software that does not require you to be an expert. It installs out of the box, but has the flexibility so you can tune it as you want. Try it out for yourself.

### **Maximizes Your Flexibility**

Any form of vendor lockin can be difficult because it can deprives you of the flexibility to make choices that otherwise would be best for your company and you. For example, if an organizational merger takes place or a key department acquires a major application that requires a different platform, you may find yourself scrambling to make necessary data protection preparations – with the little money you have remaining. That's no problem with NetVault: Backup's heterogeneous server and extensive application support.

And the freedom of choice does not end there. Our powerful disk-based data protection product, NetVault: SmartDisk, integrates seamlessly with NetVault: Backup to allow you to be in control of which data should be deduplicated and which should not, without restricting you to specific types of storage drives and appliances. Select your backup device of choice from a very large list of supported NAS, VTL and tape systems. You decide when and where to encrypt to reduce backup windows while still meeting regulatory requirements. You can deploy and protect physical or virtual machines. With NetVault: Backup Application Plugin Modules, you easily select the best backup method to protect all the popular OS, messaging and database applications. A user friendly console lets you determine the data protection granularity that best meets your needs. NetVault: Backup SmartClient gives you the freedom to attach virtual and physical tape devices where you want to.

With NetVault: Backup, the choice is yours!

### **Safeguards Your Investment**

NetVault: Backup's ability to efficiently scale from small installations to very large global 500 companies means you won't be penalized by being forced to rip and replace your data protection infrastructure just because your organization is successful and growing.

Your investment in storage systems is protected through automated access to hundreds of different storage devices. You avoid vendor lockin by taking advantage of NetVault: Backup's heterogeneous server support as well as powerful messaging, database and virtualization protection options. With NetVault: Backup, you protect your vital IT assets because you can still recover your data even in a worst case scenario in which you only have your backup media, but no NetVault: Backup database. Plus, you can redeploy into a different OS for an emergency recovery.

NetVault: Backup gives you the comfort that you made the right decision in protecting your organization's valuable assets.

## STRATEGY



## KEY FEATURES

# NetVault® Backup

### Disk-based Backup and Deduplication

NetVault: SmartDisk's disk-based backup product with its data deduplication option protects your storage investment with its powerful byte-level variable block-based software deduplication. This packs up to 12 times more protected data into the same storage area. Hardware costs are reduced by giving you the choice to use existing storage infrastructure instead of requiring you to buy specific drives or appliances.

NetVault: SmartDisk shrinks backup windows with its post-process deduplication option which can be scheduled outside the backup window. Additionally, administrators have increased choice including the ability to copy/move data between NetVault: SmartDisk Instances, to VTL or tape based devices in order to place redundant backups in offsite locations for failover and disaster recovery purposes.

### Virtualization Protection

NetVault: Backup virtualization protection is a cost-effective solution that helps you manage data efficiently, consume less energy and floor space, and acquire less hardware. NetVault: Backup virtualization plugins extend your data protection options within Xen, Virtual Iron, VMware and Hyper-V environments with advanced functionality for VMware and Hyper-V. Easy to deploy and use, NetVault: Backup virtualization plugins reduce complexity by enabling consistent, reliable point-and-click backup and restore activities without requiring you to be an expert.

### Workstation Protection

NetVault: Backup Workstation Client expands NetVault: Backup enterprise-class data protection to workstations by protecting your investment in intellectual property stored on desktops and laptops using a shadowing process that creates local redundant copies to protect data against corruption and accidental deletion. Seamless integration with the NetVault: Backup Server protects the copies for long-term retention or disaster recovery. NetVault: Backup Workstation Client also maximizes IT staff efficiency by enabling end-user recovery of data from the Shadow Area without the assistance of the backup administrator.

### Application Protection

When combined with NetVault: Backup, Application Plugin Modules (APMs) are designed so you don't have to be an expert to ensure continuous availability of business-critical applications such as Oracle, SQL Server, Exchange, SharePoint, MySQL, PostgreSQL, Lotus Notes/Domino Informix and Sybase. Native integration options offered by applications aren't enough; NetVault: Backup APMs improve native options to reduce time-consuming integration efforts. With these improvements, you protect your application investments and help close the gap between application, database and storage administrators..

### Network Attached Storage Protection

NetVault: Backup can protect Network Attached Storage (NAS) via NDMP data directly to a locally attached SCSI device, a SAN-attached storage device (tape or VTL) or to a storage device elsewhere on the network. NetVault: Backup offers advanced NDMP features such as Browsable Volume and Direct Access Restore (DAR) support, which helps restore files quickly by fast positioning to the right section of the tape. Files can be selected and restored at the directory level. NetVault: Backup lets you choose how to backup your filer with multiple options to meet the needs of your configuration.

### Enterprise Functionality

NetVault: Backup gives you the choice to manage from the location that works best for you by enabling backup administrators to define, manage and monitor jobs from remote locations

NetVault: Backup's global event notification and policy based job management features provide increased automation, especially when deployed across heterogeneous storage networks. This means you don't have to spend a lot of time monitoring and creating jobs so you have the freedom to do other things – like have a life!

## Advanced Security

NetVault: Backup's Encryption Plugin provides CAST-128, AES-256 and CAST-256 algorithm support options to meet regulatory requirements without sacrificing backup windows or deduplication performance. When on the NetVault: Backup Heterogeneous Client, the NetVault: Backup Encryption Plugin encrypts and transfers data across the network to the backup device, where it remains encrypted until restored to the NetVault: Backup Client.

If encryption is only required for secondary storage, NetVault: Backup's job-level encryption gives you the choice to encrypt only the secondary copy while the primary backup remains unencrypted to shrink the backup window. NetVault: SmartDisk's job-level deduplication combined with job-level encryption allows you to deduplicate your primary copy while encrypting the secondary copy. This means you gain the advantage of having both a smaller storage footprint and lower storage costs while also meeting your regulatory security requirements for off-site data.

## Bare Metal Recovery

NetVault: Bare Metal Recovery significantly reduces the time required to recover a failed disk drive and restore operations. Online full partition backups and offline block-level backups can be scheduled as an extension to your existing backup routine. In the event of a server crash, the provided minimal OS or LiveCD may be used to recover a system that has no functioning operating system. Once in a state to be restored, the NetVault: Backup console is used to restore the most recent system image. NetVault: Bare Metal Recovery protects your server investments by improving your ability to meet aggressive Recovery Time Objectives and Service Level Agreements by eliminating much of the manual intervention and guesswork commonly associated with the task of rebuilding a disk. By automating system recovery – including recovery of operating systems, network settings, system settings, applications, disk partitions and data - NetVault: Bare Metal Recovery ensures that the disk rebuild will be done correctly the first time.

## LAN Free Backup

By combining SmartClients with Dynamically Shared Devices in a Storage Area Network (SAN), the NetVault: Backup administrator can create a LAN-free backup environment. Backup data does not need to traverse the LAN to be written to locally attached storage devices. This keeps the LAN free of backup traffic and more available for other application usage.

### SmartClient

NetVault: Backup SmartClient gives you the freedom to attach storage wherever you like. Both real and virtual backup targets can be easily distributed throughout the backup domain. Backup data no longer needs to pass over the network and through a NetVault: Backup server in order to be written to a storage device. SmartClients are an optimal solution for multiple clients with large amounts of data, or for remotely controlling backup operations of branch offices. While the SmartClient performs local backups to direct attached storage (virtual tape library, tape drive, or tape library), all the scheduling and "on-disk" indexing information is stored on the NetVault: Backup server — thus lowering the SmartClient system resource requirements.

### Dynamically Shared Device

NetVault: Backup's Dynamically Shared Device (DSD) feature enables stand-alone tape drives and/or tape drives in libraries to be dynamically shared among client nodes in SAN and shared-SCSI environments. Backup data transfers are optimized and the number of "single points of failure" is reduced. This extends your freedom to select the optimal device for your data protection needs.

## KEY FEATURES



## **NetVault: Backup System Requirements**

### **Server Platforms**

Windows, Most Linux Platforms, Mac OS X, HP-UX Itanium, AIX, Solaris (SPARC & x86/x86-64)

### **Client Platforms**

FreeBSD

### **Application Support**

Oracle, SQL Server, Exchange Server, SharePoint, DB2, Informix, Lotus Notes/Domino, MySQL, PostgreSQL, Sybase, Teradata

### **Virtualization Platforms**

Supports multiple virtual machine operating systems

### **Device & Library Support**

Most existing tape libraries and tape formats

*Specifications and system requirements subject to change without notice.  
Review detailed system requirements at [www.bakbone.com/compatibility](http://www.bakbone.com/compatibility).*

## **NetVault: Backup Evaluation**

*Download a free evaluation copy of NetVault: Backup at [www.bakbone.com/downloads](http://www.bakbone.com/downloads).*



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