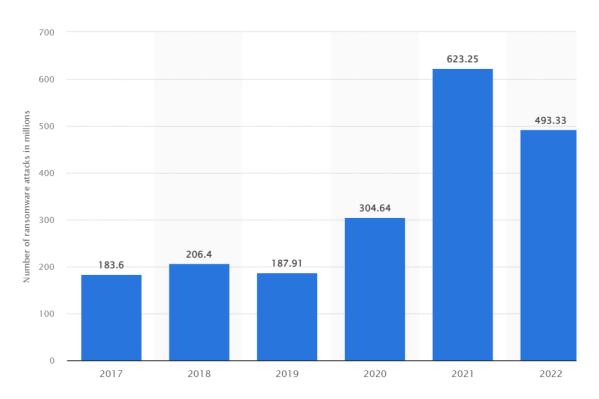
Ransomware Protection and Recovery with NetVault® Plus

Quest

Ransomware attacks continue to plague companies and non-profit organizations globally, causing irreparable harm and high cost. Add the negative impact to brand reputation and customer service, and you have a perfect storm.



Number of ransomware attacks from Statista report, 2022¹

While ransomware attacks declined slightly in 2022, there were still almost 500 million attacks globally. In its "Cost of a Data Breach 2022" report², IBM revealed an average ransom payment of \$812,360. The actual ransom payment, however, is only part of the total cost of a ransomware attack, which IBM pegs at \$4.5 million on average. IBM also noted that it takes an average of 49 days longer than other types of attacks for organizations to identify and remediate ransomware breaches.

Organizations need a backup solution that provides additional strength in combatting the ransomware impact. Quest® NetVault Plus does exactly this. NetVault Plus is a comprehensive data protection solution developed for most modern data center applications and infrastructure, as well as cloud solutions like Microsoft 365. It provides a wide range of ransomware protection, recovery and optimization capabilities.

PROTECT

Preparing for ransomware attacks involves a multilayered approach, and a solid backup and recovery solution is your last line of defense to minimize business risk.

To start, NetVault Plus provides enterprise-class backup and recovery that is used by thousands of organizations globally. It protects a wide range of systems, applications and data, both on-premises and in the cloud. NetVault Plus offers continuous data protection (CDP) that performs incremental forever protection of VMware virtual machines to help speed backup and reduce risk of data loss and damage.

NetVault Plus includes a software-defined storage component that provides deduplication, compression, encryption, replication and cloud connection. This storage technology relies on an unpublished protocol called Rapid Data Access (RDA) that protects the backup data. Unlike Server Message Block (SMB), used for Windows shares, RDA is not an open protocol. It is not accessible directly by an operating system and has an authentication requirement that sits outside the local server or domain-controlled constructs. NetVault Plus also provides data encryption to ensure data is well protected both on-premises and in the cloud. To address government data security requirements, NetVault Plus crypto module is certified for FIPS 140-2 Level.

NetVault Plus strengthens your ransomware protection, as backup jobs can be assigned as "immutable" such that the backup data cannot be overwritten, changed, deleted or encrypted during the backup retention policy—even by a NetVault administrator.

When using NetVault Plus, backup data flows directly from source to destination. There is no need to have traditional media servers. This reduces complexity and helps to reduce risk by having fewer core components that could be attacked.

On top of that, NetVault Plus employs Secure Connect technology that wraps the data transfer and control commands in a TLS 2.0 secure layer. This is a great step to restrict access to your backup data from ransomware.

With NetVault Plus, you can quickly and safely replicate backup data to enable a 3-2-1 backup strategy for disaster recovery. And for extra protection, NetVault Plus also offers air-gap backup to tape.

Of course, the NetVault Plus system itself has access to backup data, so we also need to consider that. Ransomware has been known to predominately target Windows-based systems, partly due to popularity, but also due to the number of existing user client/ user endpoints that ransomware perpetrators can take advantage of. NetVault Plus reduces that threat by supporting system installation on Linux. While not completely invulnerable, installing the NetVault Plus system on Linux reduces the number of potential threats.

Another consideration is how system access is granted. NetVault Plus has two main methods for granting access: Integration with a directory service or its own role-based access mechanism. Given the risk of Active Directory Group Policy and Group Policy Object (GPO) attacks, we must consider that this level of compromise could allow access to the backup application where systemic data deletion could be achieved. While you can leverage Active Directory to control system access, NetVault Plus also provides robust role-based access without the need to use Active Directory. While this might be less convenient for user and group control, it does offer another degree of separation from the production environment and potential access by an unauthorized third party.

RECOVER

NetVault Plus makes recovery quick and easy.

Administrators can easily find what they need and immediately start recovery. When using NetVault Plus CDP for VMware, you get Instant Restore that allows you to instantly recover a virtual machine by mounting a VM snapshot image directly from the NetVault Plus deduplicated secondary storage repository.



OPTIMIZE

NetVault Plus includes powerful automation to simplify data protection and increase IT staff productivity. It provides global source-side data deduplication and compression that accelerates backup and recovery while reducing storage requirements and costs by more than 90%. NetVault Plus' deduplication is far from ordinary. To start, it performs deduplication across all your backup jobs for true global deduplication. It combines a variable-block deduplication chunking methodology with a contentaware algorithm that identifies patterns in the data, despite the shifting that results from additions or deletions in the data stream. In the end, you attain the best possible storage reduction available in the industry. This source-side deduplication also reduces the amount of data being sent over a network, from a client machine to storage, further reducing exposure to data capture techniques.

NetVault Plus' cloud tiering also helps optimize your backup data by keeping more recent backups on-prem and moving older backups to cloud. That way you can save money by using cloud storage versus on-prem storage. Cloud tiering will also help you recover your data faster as it will deliver the more recent backups from local disk while it's acquiring what it needs from the cloud.

KEY BENEFITS

In the end, even the most prepared organization can't completely protect itself against ransomware attacks. But you can limit the risks when you have a backup solution that not only allows you to restore all your data quickly and fully, but also:

- Mitigates the risks of ransomware impacting your business
- Reduces the number of core components that can be attacked
- Limits exposure to data capture techniques
- Restricts your backup data from ransomware

NetVault Plus delivers the protection, recovery and optimization capabilities demanding IT managers and executives seek in today's challenging high-risk environment.

For more information about NetVault Plus, visit www. quest.com/products/netvault-plus.



About Quest

Quest creates software solutions that make the benefits of new technology real in an increasingly complex IT landscape. From database and systems management, to Active Directory and Microsoft 365 migration and management, and cybersecurity resilience, Quest helps customers solve their next IT challenge now. Around the globe, more than 130,000 companies and 95% of the Fortune 500 count on Quest to deliver proactive management and monitoring for the next enterprise initiative, find the next solution for complex Microsoft challenges and stay ahead of the next threat. Quest Software. Where next meets now. For more information, visit www.quest.com.

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