

# Stopping Ransomware Attacks in Their Tracks

With the Veritas and Hitachi Vantara Alliance

**\$20  
billion**

**OF ANNUAL GLOBAL  
RANSOMWARE  
DAMAGE PREDICTED  
BY 2021<sup>1</sup>**

## The Growing Threat

Traditional security solutions can only go so far to protect systems when (not if) ransomware attacks happen.

## Solution brief

As the fastest-growing cybercrime, ransomware — and the rapid evolution of ransomware capabilities — poses even more critical challenges for data-intensive organizations. The impact of these attacks spans far beyond paying ransom — they can put an organization out of business. The alliance between Veritas, the leader in data recovery, and Hitachi Vantara, the leader in data storage and protection, provides a proactive, multilayered approach to protection and defense before attacks can even begin.

## The State of Ransomware

Ransomware attacks have evolved from a traditional shotgun approach to a post compromise approach

- Impact has gone from being contained to just a few systems to seeing advanced, persistent threats throughout many to all systems — in many cases involving exfiltration.

Cost of damage is rising along with more sophisticated attacks

- Ransomware attacks on organizations are predicted to occur every 11 seconds, causing \$20 billion in damages per year

Delivery methods causing ransomware infections rely on vulnerabilities in organizations

- Infiltrating through targeted malicious campaigns, such as phishing emails and mal-advertising.
- Attackers take advantage of lack of security training and risk-aware password management among personnel, as well as weak access controls.

# 20%

**OF THOSE WHO PAY  
NEVER RECEIVE A  
DECRYPTION KEY<sup>2</sup>**

### Should You Pay?

Victims need to be aware that paying the ransom does NOT always work. Some attackers will continue to demand ransom after receiving the initial payment. The decryption process, if poorly implemented, can damage files.

## The Veritas-Hitachi Vantara Joint Solution Approach

No one cybersecurity organization can solve for the multiple impacts of ransomware in one solution. Together, Veritas and Hitachi Vantara offer protection from ransomware on both the hardware and software fronts.



### Govern

- Veritas provides tools and applications for managing data — knowing what data your organization has, identifying infrastructural risk of attack, and reporting on data security compliance.



### Protect

- Hitachi Vantara makes data immutable — fixed, unchangeable and can never be deleted.
- With several layers and tools to protect data and applications, Hitachi Vantara creates powerful defenses against malicious code.



### Detect

- Hitachi Vantara and Veritas provide tools for the accurate detection of ransomware on multiple levels, reporting from the backup environment and alerting on suspicious activity, i.e. large amounts of changed files in a short period.



### Respond/Recover

- Veritas provides the last point of defense, making data more resilient in the face of attacks.
- Veritas' near 100% data recovery rate ensures backup stores are clean and recoverable.

## Ransomware Attacks Are More Frequent Than Ever<sup>3</sup>



Beginning of 2016



End of 2016



End of 2019



In 2021

**91%**  
**OF CYBERATTACKS**  
**BEGIN WITH A**  
**SPEAR-PHISHING**  
**EMAIL**<sup>4</sup>

## Be Ransomware Resilient



Secure physical access to the protection servers and storage devices.



Test your disaster recovery plan.



Harden and protect the NetBackup Master servers.



Recover from data spillage.



Secure communications pathways and ports.



Perform frequent security audits, reviews and training.



Protect and secure client nodes.



Ensure critical systems protection for the backup server.



Manage security patches and alerts.



Ensure continuous availability of clean restorable data.

## The Payoff

- Together, Veritas and Hitachi Vantara provide a multilayered approach to tackling ransomware throughout all threat stages.
- Veritas and Hitachi Vantara are focused on proactive infrastructure protection, rather than reactive defense.
- Hitachi Vantara builds strong walls between attackers and crucial data.
- Veritas provides rapid and accurate data recovery as the last line of defense, should attacks permeate defenses.
- Prevent loss of time and money while maintaining business continuity.
- Eliminate the need to pay ransom on hijacked data.

1. Global Ransomware Damage Costs Predicted To Reach \$20 Billion (USD) By 2021

2. Why you should NOT pay ransom to malware creators

3. Global Ransomware Damage Costs Predicted To Reach \$20 Billion (USD) By 2021

4. 91% of cyberattacks begin with spear phishing email

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