Solution Profile

Hitachi Vantara's 7-Layer Defense Strategy: Protect

Protection Safeguards to Manage Your Cybersecurity Risk.

Digital business transformation, generative AI and emerging cyber threats create unprecedented security risks. Protecting data from tampering, deletion, loss or theft isn't easy. What's worked in the past is falling short, leaving gaps in many companies' security posture.

In response, organizations are searching for new and immutable cybersecurity approaches. But they struggle to balance protecting data and ensuring resiliency with the need to run the business. That's why hundreds of the world's most security conscious enterprises turn to Hitachi Vantara and our ecosystem of partners for support.
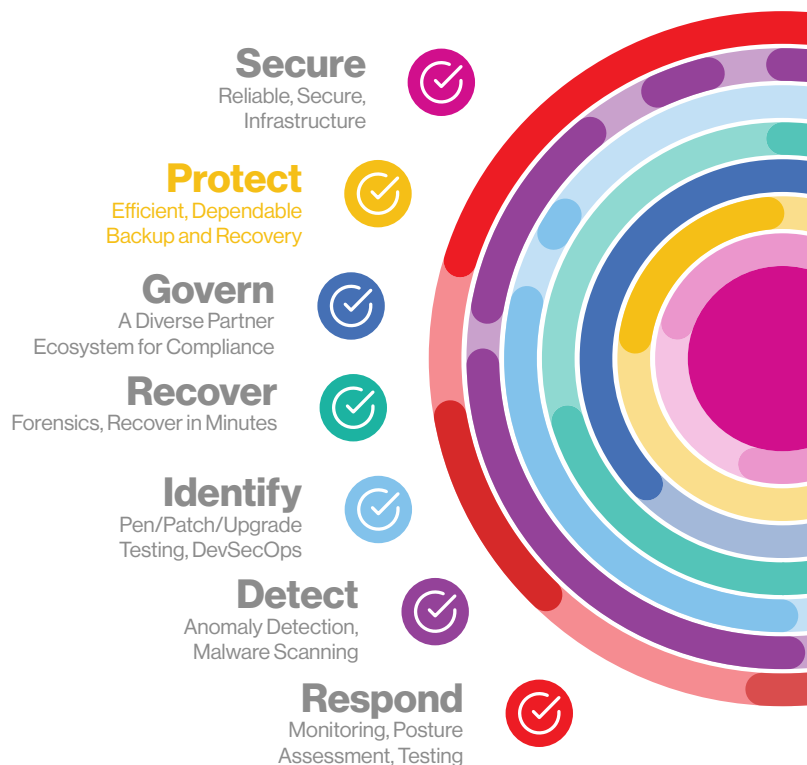
Hitachi helps organizations of all sizes and industries confidently address the threats from today's cyber criminals by offering a proactive defense strategy that expands on the National Institute of Standards and Technology (NIST) Cybersecurity Framework.

The NIST Cybersecurity Framework is a set of industry standards and best practices designed to help organizations manage cybersecurity risks and provides a flexible and cost-effective approach to enhancing cybersecurity infrastructure and risk management processes.

Hitachi Vantara's 7-layer defense-in-depth integration with the NIST Cybersecurity Framework spans hardware, software and services. It delivers immutable safeguards, operational resilience and compliance without overwhelming complexity. This unique approach helps our customers address rampant data growth and sprawl, cyber threats, downtime costs and regulatory oversight.

More Sophisticated and Costly Security Events Require Stronger Protection

Whether an intrusion or other breach, the total cost of an event is often more than the ransom—it also includes the recovery of impacted systems and the losses incurred by downtime. A report by Hitachi partner Veeam[1] found that in 93% of ransomware incidents, threat actors actively targeted backup repositories. Seventy-five percent of victims lost some of their backups and 39% of backup repositories were completely lost.

Secure
Reliable, Secure, Infrastructure

Protect
Efficient, Dependable Backup and Recovery

Govern
A Diverse Partner Ecosystem for Compliance

Recover
Forensics, Recover in Minutes

Identify
Pen/Patch/Upgrade Testing, DevSecOps

Detect
Anomaly Detection, Malware Scanning

Respond
Monitoring, Posture Assessment, Testing

Downtime is Detrimental and Expensive

System failures, user errors, and malicious attacks are unpredictable and unavoidable. According to Pingdom[2], the cost of downtime for these industries can amount to the cost of downtime for these industries can amount to:

- Media at **$90,000** per hour
- Health care at **$636,000** per hour
- IT at **$450,000** per hour
- Retail at **$1.1 million** per hour
- Telecommunications at **$2 million** per hour
- The energy industry at **$2.48 million** per hour
- Auto at **$3 million** per hour
- Brokerage service industry at **$6.48 million** per hour

The Ultimate Benefit of Protect—Peace of Mind

While most IT organizations have some data protection in place, cyber readiness is different. As cyberattacks become more frequent and sophisticated, the path to operational resiliency becomes increasingly important. In some cases, cybercriminals even target backups in an attempt to prevent the victim from trying to recover their data.

The protect functionality of Hitachi's 7-layer defense-in-depth strategy outlines the safeguards that ensure you can deliver critical infrastructure services mitigating the impact of a potential cybersecurity event.

Protect empowers IT by providing the necessary access control to limit exposure to cyberattacks, data security measures to protect information and the maintenance of security protection technologies to provide resilience.

Beyond mere prevention tactics, the functionality incorporates training and awareness programs to educate employees about cybersecurity risks and appropriate behaviors. Education is essential for creating a security-conscious culture within the organization, significantly reducing the risk of security breaches from internal sources.

Hitachi Vantara—Data Protection Guaranteed

Hitachi has decades of experience ensuring reliable, secure storage that incorporates immutability, encryption, retention and versioning to prevent tampering, deletion, loss, theft or exposure of data. Plus, our partnerships with the biggest names and the up-and-comers in backup and recovery ensure these operations are efficient and reliable.

As a result, you gain the peace of mind that comes with:

- The only 100% data availability guarantee in the market and the impregnable fortress that protects data integrity.
- Data that is safely stored in an isolated, encrypted, versioned and secure storage environment designed for scale and speedy recovery.

- The robust protection of data where it lives reduces the cost of traditional data protection and the risk of data loss.
- Ensuring continuous operations for mission-critical applications with nonstop, uninterrupted data access to achieve strict zero RTO and RPO objectives.

The Hitachi Advantage: VSP One, HCP and HCP Anywhere Enterprise

Hitachi Vantara solutions deliver reliable, scalable and secure storage solutions so organizations can manage their data effectively.

The Hitachi Virtual Storage Platform One (VSP One) is built with resiliency in mind. It provides 100% data availability, modern storage assurance and adequate capacity. The Hitachi Content Platform (HCP) allows IT organizations and cloud service providers to securely and cost-effectively store, share, protect, preserve and analyze data.

Adding VSP One and/or HCP will make your environment more scalable, more affordable, faster, easier to manage and more reliable with built-in features for data durability, automated retention, massive scalability, immutability, versioning, performance and more.

HCP Anywhere Enterprise is an enterprise-level file synchronization and sharing platform that brings edge offices and remote workers under the same robust protection you deliver in your data centers.

Click here to learn how we can help you build an unbreakable data infrastructure powered by Hitachi Vantara's technology.

Learn more →

[1] Backup Repositories Targeted in 93% of Ransomware Attacks
[2] Average Cost of Downtime per Industry

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