Solution Profile

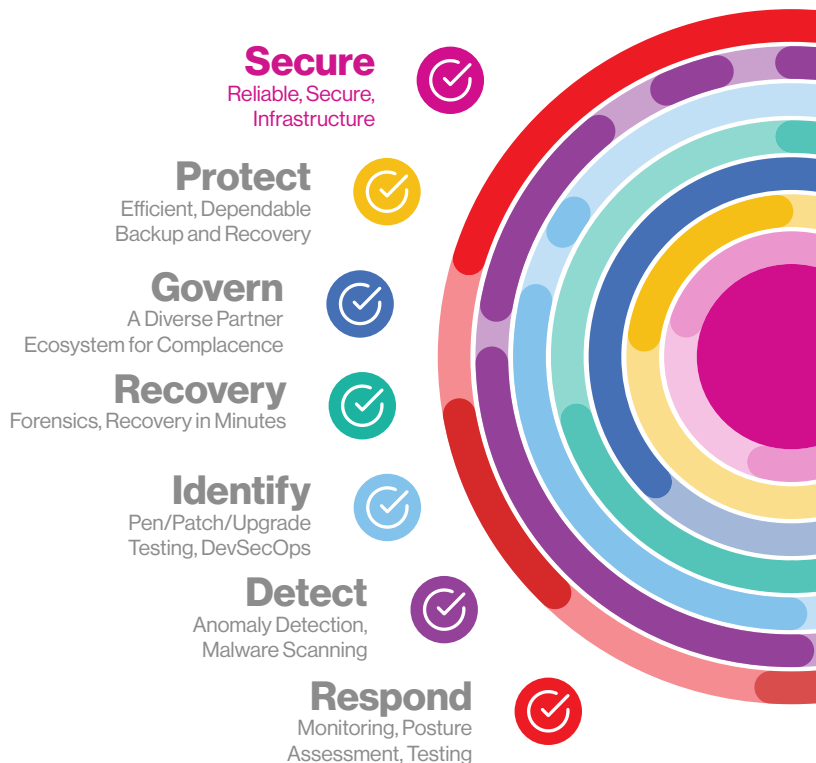# Hitachi's 7-Layer Defense Strategy: Secure

Create a **Secure**, Reliable, Resilient, Immutable Infrastructure.

Digital business transformation, generative AI and emerging cyber threats are creating unprecedented security risks. Keeping data safe from tampering, deletion, loss, theft or exposure is no easy task. 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 ensuring data resiliency with the need to run the business. That's why hundreds of the world's most vulnerable enterprises turn to Hitachi Vantara and our ecosystem of partners for support.

Hitachi helps organizations of all sizes and across all industries confidently address the threats from today's cyber criminals and by offering a proactive defense for an ever-evolving threat landscape.

Hitachi Vantara's 7-layer defense-in-depth strategy, spanning hardware, software and services, delivers immutable safeguards, operational resilience and compliance without the overwhelming complexity found in other solutions. This unique approach helps our customers address rampant data growth and sprawl, cyber threats, downtime costs and regulatory oversight.

Secure
Reliable, Secure, Infrastructure

Protect
Efficient, Dependable Backup and Recovery

Govern
A Diverse Partner Ecosystem for Complacence

Recovery
Forensics, Recovery in Minutes

Identify
Pen/Patch/Upgrade Testing, DevSecOps

Detect
Anomaly Detection, Malware Scanning

Respond
Monitoring, Posture Assessment, Testing

New security challenges are evolving daily, requiring diligence and stronger defenses.

- **Fortifying Vulnerabilities Requires Agility.** The sophistication and impact of modern attacks, combined with growing attack surfaces and increasing regulatory scrutiny requires a new, comprehensive approach and teamwork.

- **Ensuring Protection is Continuous Struggle.** Organizations and their data are under constant threat. Increasingly complex IT landscapes combined with a growing and evolving list of security risks have made the job of protecting the enterprise a challenging one. And now, the threats from cyberattacks like ransomware continue to rise.

- **Safeguarding Data Backups from Ransomware Threats.** 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 Sophos[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.

- **Downtime is Detrimental and Costly.** 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:

  - 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

[1] The state of ransomware in manufacturing and production 2024
[2] Average cost of downtime per industry

What makes one defense strategy better than another? It starts with immutability.

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 and offers peace of mind that comes with:

- The only 100% data availability guarantee in the market and the impregnable fortress that protects the integrity of your data.
- 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 reduces the risk of data loss.
- An assurance of 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 effective 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 can 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 →

About Hitachi Vantara

Hitachi Vantara is transforming the way data fuels innovation. A wholly owned subsidiary of Hitachi, Ltd., we're the data foundation the world's leading innovators rely on. Through data storage, infrastructure systems, cloud management and digital expertise, we build the foundation for sustainable business growth.

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HV-BTD-PV-7-Layer-Secure-11June24-A