



# Secure Private Cloud

Taking back  
control of your data

**Prepared by:**  
Sekuro

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# Secure Private Cloud with Sekuro & Pure Storage

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The volume of data created worldwide in 2022 was estimated to reach 97 zettabytes.<sup>1</sup> These days, much of this data runs through applications, and to maintain the level of speed and scalability that is expected of organisations, you need high-performing apps.

Managing your data in a way that guarantees performance becomes a challenge when you're managing hybrid environments - like most organisations now do. We know not everything can be migrated to the public cloud, whether it be due to the nature of the data or increasing regulatory requirements relating to data sovereignty.

However, the cost of supporting legacy applications in a data centre can be high, both in terms of what it costs the organisation, as well as the environment.

Sekuro believes organisations can have their cake and eat it too by bringing the scalability of the cloud into their private and on-premises data centres with zero downtime.

In this whitepaper, we will discuss how you can have the best of both worlds by building a high-performance private cloud environment for your mission-critical applications and data that ensures high performance, data sovereignty, security, and complete control over your infrastructure.

<sup>1</sup>Petroc Taylor, Total Data Volume Worldwide 2010-2025, Statista, September 8, 2022. Accessed 11 May, 2020.

## How do I know if I need a secure private cloud?

- Are you being held back by legacy infrastructure bottlenecks?
- Do you have legacy apps that aren't suited to the public cloud?
- Do you need better, more reliable performance from your applications?
- Are you looking to reduce your data storage power consumption and costs?
- Do you need to comply with data sovereignty regulations?

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If you answered yes to any of the above, reach out to Sekuro to discuss your Secure Private Cloud options.

# Why choose Secure Private Cloud?

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## Improve business performance and contribute to a more sustainable future

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- Improved application availability and performance
- Store and manage large amounts of data effectively
- Reduce power consumption, rack space and cooling requirements
- Balance quick deployment of services with security and compliance
- Scale infrastructure without compromising performance
- Easily manage complex and disparate IT infrastructure
- Grow data volumes and complexity
- Improve disaster recovery capabilities
- Create efficiencies in infrastructure management due to the simplification of architecture

## Next-generation data management

Our next-generation data management solution, in partnership with PureStorage, offers high-performance, easily scalable, and secure storage that can help you manage growing data volumes.

You can store and access data quickly and efficiently, without worrying about running out of storage space or losing critical data. Overall, we can help you reduce storage costs and ensure that your data is secure and compliant, even as data volumes and complexity grow. (See pages 7 & 8)

## Converged infrastructure

Our converged infrastructure solution, leveraging FlashStack by Pure Storage and Cisco, simplifies deployment, minimises downtime, and reduces the management of data centre resources.

By consolidating compute, storage, and networking into a single, pre-validated solution, we can help you achieve faster time-to-market for new applications and services, reduce operational expenses, and streamline IT operations for increased agility and responsiveness. (See pages 5 & 6)

# Bring your data storage into the next generation

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## What is next-generation data management?

Many organisations have moved to cloud infrastructure and storage for its scalability and adaptability to business needs without incurring downtime. However, this shift can sometimes result in drawbacks such as increased costs, diminished control over assets, and network bandwidth bottlenecks due to WAN connectivity.

This is where next-generation data management comes in. As a modern and advanced solution, next-generation data management is designed to handle large structured and unstructured data, including images, videos, and social media feeds, more efficiently. A need that is only going to increase with predictions that 80% of the world's data will be unstructured by 2025.<sup>2</sup>

Next-generation data management uses different approaches like object storage, software-defined storage, and all-flash storage to provide better performance and scalability. It also provides additional capabilities, including automated tiering, data duplication, compression, and encryption, to ensure data security and compliance.

## Why might you need it?

- Organisations are facing challenges in managing large and unstructured data due to increasing file sizes and data volumes.

- Conventional data management technologies are insufficient to handle these data storage demands.
- Next-generation data management provides a reliable, faster, and resilient solution to address the growing data needs.

## What are the benefits?

- Delivers high-speed access to data, allowing for faster application performance
- Highly scalable, allowing organisations to easily add storage capacity as their needs grow
- Provides advanced data compression and deduplication, which can reduce the amount of storage space needed and help lower costs
- Built with redundancy and self-healing capabilities, ensuring that data is always available and protected against hardware failures
- Designed to be simple and easy to manage, with intuitive interfaces and automated processes that can help reduce IT overhead

<sup>2</sup>Timothy King, 80 Percent of Your Data Will Be Unstructured in Five Years, Data Management Solutions Review, March 28, 2019. Accessed 11 May, 2020.

# Why Sekuro & Pure Storage for next-gen data management?

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Sekuro and Pure Storage offer a solution that combines the best of both worlds – the scalability and non-disruptive upgradability of cloud storage with the benefits and cost savings of on-premises infrastructure.

As a leading provider of next-generation data management solutions, Pure Storage delivers high performance, reliability, and efficiency. It provides organisations with a simplified, easy-to-manage platform that supports rapid data growth while reducing the total cost of ownership.

As Pure Storage's top partner in the APJ region, Sekuro offers the highest level of expertise and helps design solutions that support clients' business growth.

## Case study

### *Energising Efficiency:*

*How a large utility company reduced mission-critical application response times by up to 90% with Sekuro's Next-Generation Data Management*

### Challenges:

A large energy operator responsible for managing Australia's energy infrastructure and systems faced significant challenges in maintaining the performance of its mission-critical applications.

The operator required a reliable and efficient storage solution to ensure a smooth operation and protect the nation's energy supplies.

### Solution:

Next-generation data management with Sekuro and Pure Storage

### Outcomes:

By partnering with Sekuro and Pure Storage, the energy operator achieved significant improvements in performance, reliability, and efficiency.

After implementing the solution, the operator experienced an immediate improvement in application performance, with response times reduced by up to 90%.

# Connecting the dots with converged infrastructure

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## What is converged infrastructure?

Converged infrastructure is a solution designed to overcome the limitations and inefficiencies of traditional IT storage and compute.

Traditional data centre management systems are comprised of disparate silos that must be individually configured, which can be time-consuming and costly to set up and maintain.

Converged infrastructure joins compute, networking, storage, systems administration, and software together in a pre-configured package. The package operates and is managed as a single converged system that delivers faster time to value. The purpose of converged infrastructure is to deliver a highly performant platform that can scale as organisations grow and simplify ongoing management.

## Why might you need it?

- To manage data centre growth while controlling costs and maximising performance.
- Traditional IT storage and compute systems can be inefficient and require significant expertise to manage.

- Managing disparate silos of storage and compute resources can be time-consuming and complex, impacting the speed and agility of deployments.

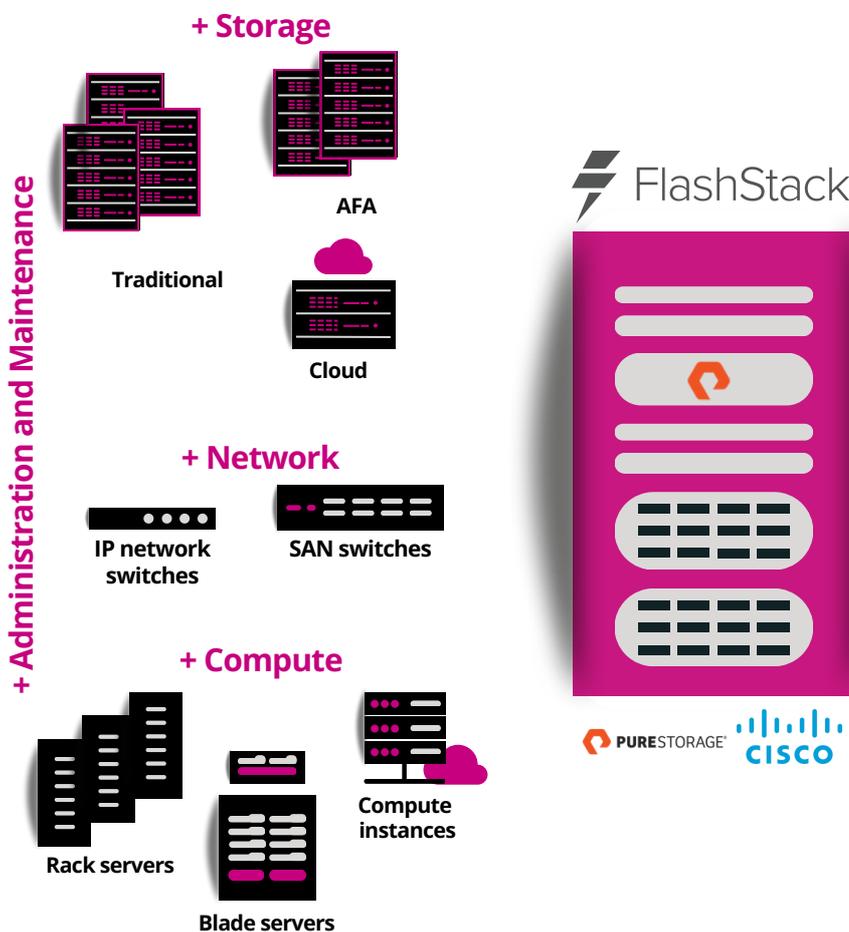
## What are the benefits?

- Simplified data centre management all in one place
- Deployments preset with modular configurations to increase speed and agility
- Validating configurations reduce the guesswork and provide templates for new applications
- Lowered costs due to reducing repetitive installation tasks and system testing, removing infrastructure silos and consolidating infrastructure
- Converged systems that display all system resources in a single capacity pool for better monitoring of resource usage
- Ability to scale and bring new services to market rapidly
- Infrastructure components, including compute, storage, and network, can be scaled independently rather than in a hyperconverged infrastructure model

# Why Sekuro & Pure Storage for converged infrastructure?

FlashStack from Pure Storage and Cisco delivers cloud-like agility and pay-as-you-use pricing across hybrid-cloud environments. FlashStack scales fast, runs any application and allows you to upgrade without disruptions. This means organisations can quickly deploy new capabilities to achieve business outcomes while staying within budget.

Sekuro helps organisations effectively manage and store burgeoning data volumes and complexity, whilst ensuring high availability of mission- and business-critical applications and data. Sekuro goes beyond being a systems integrator – we act in an advisory capacity with our clients, such as the Australian Grand Prix Corporation, for which we implemented Pure Storage. This consultative and strategic whole-of-organisation approach means we proactively identify opportunities to further optimise and address any security gaps across IT and SecOps.



## Business value highlights

<b>446%</b> five-year ROI	<b>77%</b> improved storage deployment agility
<b>72%</b> reduced total cost of operations	<b>\$16m</b> additional revenue gained/protected
<b>8</b> month payback period	<b>97%</b> reduction in unplanned downtime
<b>72%</b> more efficient IT infrastructure staff	<b>17%</b> more productive end users
<b>37%</b> more efficient help desk	<b>45%</b> more applications deployed
<b>8x</b> more staff time spent on innovation-based activities	

Source: Enterprise Strategy Group, a division of TechTarget, Inc

Source: IDC

# Why work with Sekuro?

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## Experience

From powering the nation to delivering banking services, Sekuro has been working alongside Pure Storage for 8 years architecting and implementing secure private clouds for some of the biggest critical infrastructure deployments supporting Australian citizens.



## Services

We believe that providing exceptional service is key to client success. Our services are designed to help organisations maximise their technology investments, with a focus on delivering solutions that are scalable, reliable, and effective. We enable organisations to achieve their business objectives by providing personalised and customised services that align with their specific needs.



## Implementation

We provide customised implementation services to ensure seamless transitions. Our team of skilled engineers have extensive knowledge of the technologies they work with and are committed to delivering the best outcomes for organisations. We follow a hands-on approach to implementation, providing project planning and management, high-level design, deployment/installation, best-practice configuration, documentation, and knowledge transfer.

Our implementation services are designed to help clients maximise their technology investments, with a focus on delivering solutions that are scalable, reliable, and effective.



## Optimisation

At the core of our optimisation services is maximising the value of our clients' ongoing technology investments. Our team of experienced engineers, with a deep understanding of the technologies they work with, collaborate with clients to identify areas where their technology can be enhanced, and work closely with clients to make hands-on changes, whether that be to improve performance, increase security, or achieve greater efficiency. We also provide strategic guidance to help clients plan for the future and develop a roadmap for continuous improvement.

# Get in touch

Sekuro is a cyber security and digital resiliency solutions provider that helps CIOs and CISOs take a strategic approach to cyber security risk mitigation and digital transformation. Operating at the intersection of the digital technologies and cyber security industries, Sekuro reduces cyber risk while new technologies are adopted - ultimately building business resiliency and enabling fearless innovation.

Our four practice areas (Governance, Risk and Compliance, Technology and Platforms, Offensive Security, and Managed Security Services) are full of the brightest minds in the industry. They work together to look be-yond the threat landscape of today and into an opportunity landscape of tomorrow.

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