HITACHI
Inspire the Next

Embracing The Hybrid Cloud:

Using Cloud Services To Unlock the Value
of Corporate Data (and Modernize Your IT)

HitachiVantara.com

Unlock the Value of Data

Data can transform your organization – if you can make sense of it. Applications play a key role in understanding customer data, internal process data and everything in between. But in order to leverage applications across the organization, your data needs to be accessible, shareable and ready to support advanced analytics.

A few companies have managed to maximize the value of their data, primarily because they've chosen to work with partners who can guide them through digitization and the use of advanced analytics.

According to McKinsey & Company, 40% of industries have achieved true digitization.

In addition, a report by Forbes found that 44% of companies believe they have advanced or extremely advanced maturity in data and analytics.

The Key is in the Hybrid Cloud

To get the most out of your data, applications need to be in the right place: the cloud. When you migrate apps to the cloud, you gain the IT agility needed to efficiently utilize data across a wide variety of applications.

Cloud-based applications are also primed to support modern data sources, data management and the automation strategies behind artificial intelligence and machine learning.

With the right applications in the right cloud, you'll be ready to use data to extract actionable insights, enable digital transformation and create competitive advantage.

But first you need a cloud strategy. To unlock the value of your corporate data, your IT strategy must include the cloud in all of its varieties:

✓ **Public**

✓ **Private**

✓ **Hybrid**

This e-book will explore the hybrid cloud and how to implement it to maximize the value of your data.

The Cloud Explained: Private, Public, and Hybrid

There's no way around it: you need to leverage the cloud to ensure IT agility and data accessibility for business analysis.

Let's discuss the three primary types of cloud computing and how cloud-based data platforms can help transform data into a very powerful asset for your organization.

The Cloud Explained: Private, Public, and Hybrid

Located on premise, the private cloud is an efficient, secure and safe form of cloud computing. While some private clouds are pre-engineered, complexity, cost and time to implement can vary with private cloud adoption. After all, private clouds are not simply existing data centers running virtualized, legacy workloads; they incorporate highly modernized digital application and service environments running on true cloud platforms.

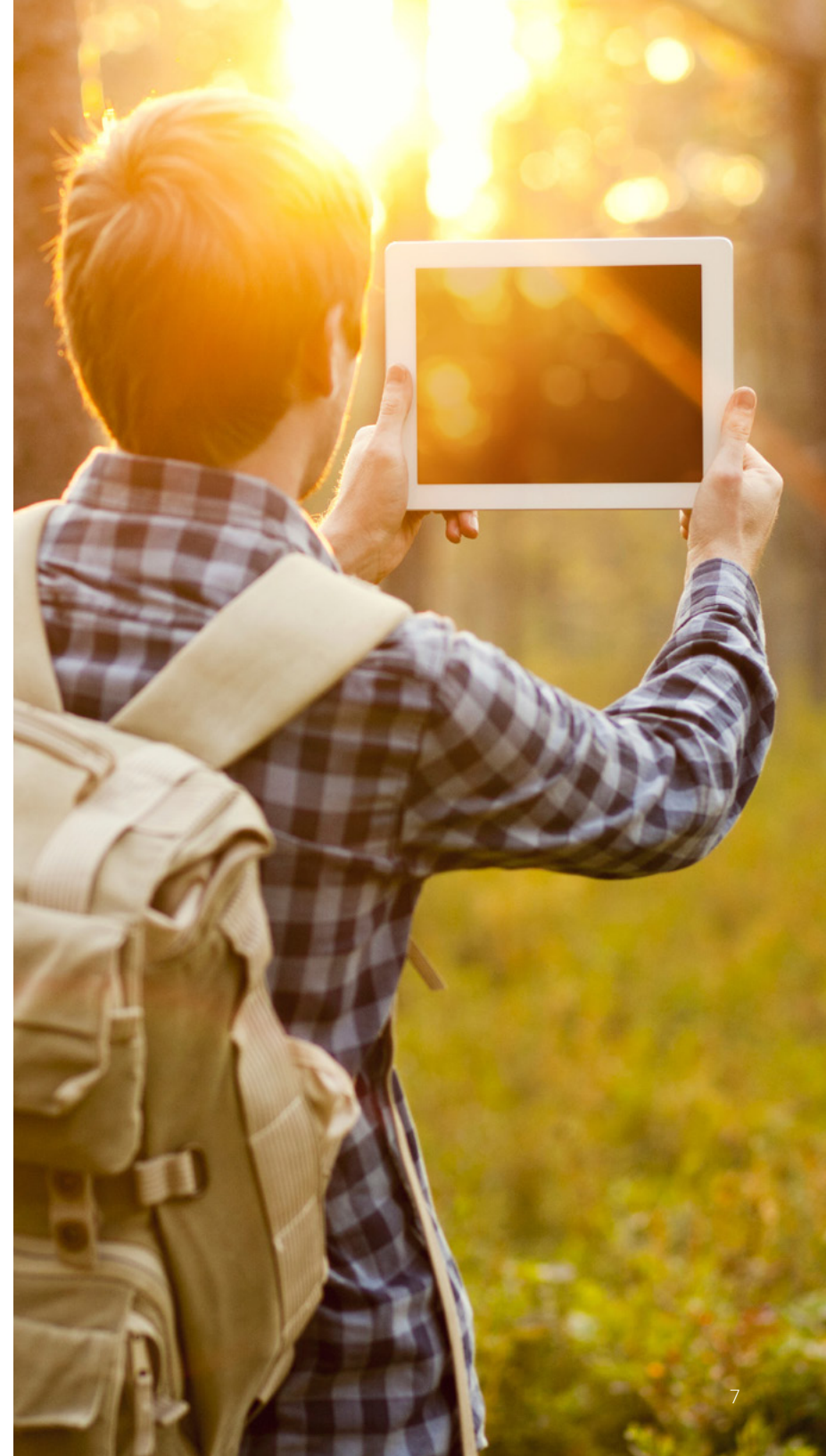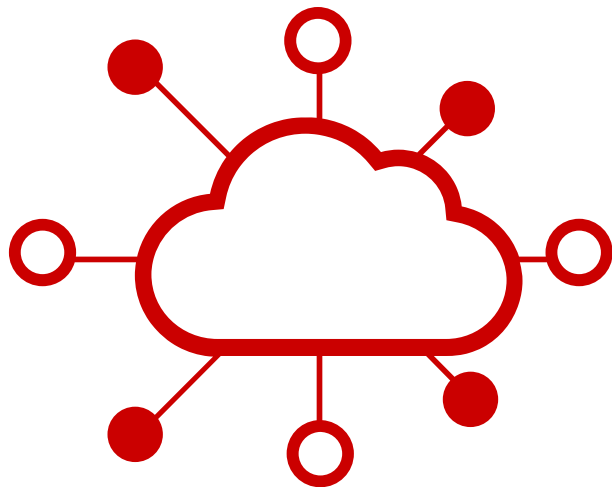# The Cloud Explained: Private, Public, and Hybrid

Outsourced operations to a public cloud provider, usually for a fixed monthly fee, might be a part of your solution. Public clouds often have lower costs and more scalability and excel at providing burstable computing resources when needed quickly. However, a public cloud isn't a perfect match for every computing need. For some business and IT requirements, a private or hybrid approach may be a better fit.

The Cloud Explained: Private, Public, and Hybrid

A mix of the public cloud and an internal private cloud managed in-house can offer greater scalability and increased control over the computing environment. Hybrid clouds must bond the two clouds together through fundamental technology to allow the transfer of data and applications. The vast majority of IT organizations adopt a hybrid cloud approach that includes elements of both private and public cloud models.

Three Parts of a Successful Cloud Strategy

With the need to move to the cloud, where do most companies get it wrong?

✗ They underestimate the new tools, skills, time and resources needed.

✗ They mistakenly believe that limiting project scope limits risk, so they gravitate toward point solutions or incremental solutions that ultimately undermine their ability to achieve cloud's potential benefits.

To get it right, implement these three key parts of a successful cloud strategy.

Cloud Application Modernization

✓ Modernise Applications

✓ Automate Process

✓ Cloud Agnostic Deployment

Cloud Data and Analytics

✓ Integrate AI Data

✓ Gain Intelligent Insights

✓ Power Business with Analytics

Cloud Infrastructure and Multi-cloud Operation

✓ Leverage the Best Technology

✓ Optimize for Multicloud

✓ The Best Service Technology

Three Parts of a Successful Cloud Strategy

1. Cloud Application Modernization

To automate data management and sharing across applications with vendor-agnostic cloud compatibility, you need to modernize applications. App modernization is a complex initiative with multiple options from "lift and shift" to refactoring. You'll need guidance, best practices and managed services to strategize, adopt, deploy and manage such a solution.

Three Parts of a Successful Cloud Strategy

2. Cloud Data and Analytics

To gain intelligent insights with advanced analytics, you'll need to integrate and analyze data from all sources, often pooling it all into a data lake. Implementing an integrated data management strategy (like a data lake) is complex with new solutions emerging all the time. A cloud-agnostic partner can help integrate business analytics across all your data sources to produce intelligent insights.

Three Parts of a Successful Cloud Strategy

3. Cloud Infrastructure & Multi-cloud Operation

To maximize the value of your data, you need to use preeminent technologies that are optimized for multicloud. Of course, this is easier said than done. It can be complex to implement a secure and compliant cloud environment with new threats and regulations constantly materializing. You'll need technology and service leadership to support safe and compliant multicloud environments.
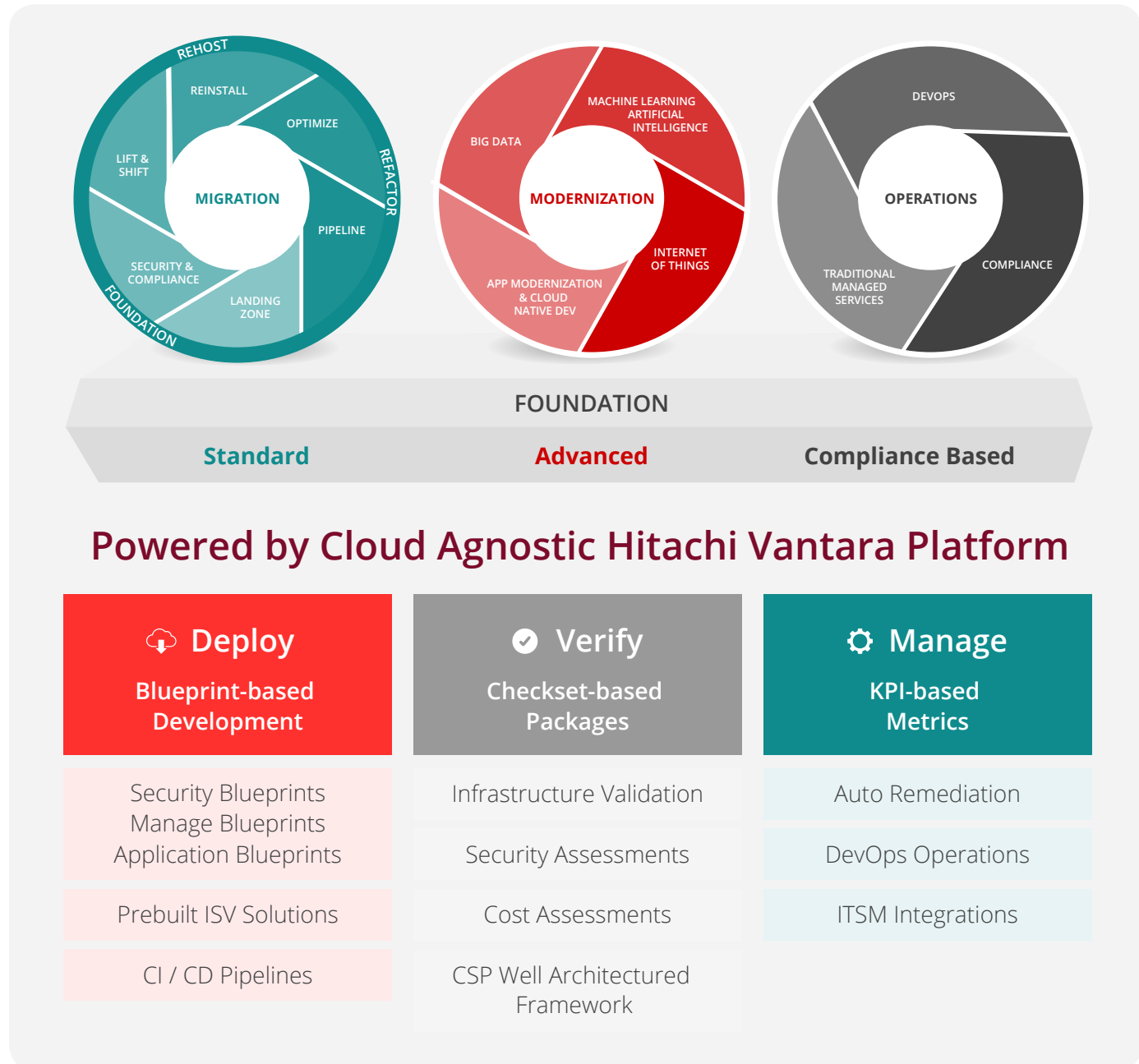
How Can You Take Advantage of the Cloud?

Hitachi Vantara offers managed services and solutions for hyperscale-integrated IaaS and PaaS providers and is one the few systems integrators capable of supporting the entire cloud services lifecycle. Backed by extensive security DNA and deep compliance IP and expertise, Hitachi Vantara helps enterprise customers that operate in highly regulated environments – Financial Services, Healthcare/Life Sciences, Education and the Public Sector – accelerate their cloud investments while extracting maximum value from use of the cloud itself.

Three Key Hitachi Vantara Cloud Offerings

Here are three key cloud offerings from Hitachi Vantara that should be in your cloud deployment roadmap.

MIGRATION
- REHOST
- REINSTALL
- OPTIMIZE
- REFACTOR
- PIPELINE
- LANDING ZONE
- SECURITY & COMPLIANCE
- LIFT & SHIFT
- FOUNDATION

MODERNIZATION
- MACHINE LEARNING ARTIFICIAL INTELLIGENCE
- BIG DATA
- INTERNET OF THINGS
- APP MODERNIZATION & CLOUD NATIVE DEV

OPERATIONS
- DEVOPS
- COMPLIANCE
- TRADITIONAL MANAGED SERVICES

FOUNDATION

Standard	Advanced	Compliance Based

Powered by Cloud Agnostic Hitachi Vantara Platform

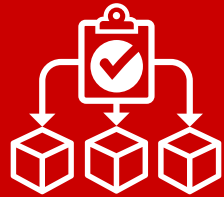| ☁ Deploy	✔ Verify	⚙ Manage
Blueprint-based Development	**Checkset-based Packages**	**KPI-based Metrics**
Security Blueprints Manage Blueprints Application Blueprints	Infrastructure Validation	Auto Remediation
	Security Assessments	DevOps Operations
Prebuilt ISV Solutions	Cost Assessments	ITSM Integrations
CI / CD Pipelines	CSP Well Architectured Framework	

How Can You Take Advantage Of The Cloud?

MIGRATE

Move Workloads to the Cloud

Cloud Migration Services from Hitachi Vantara can help you pool data in the cloud to prepare for actionable insights, rehost and reinstall applications in the cloud, or move legacy applications to a more modern cloud environment. Our expertise building cloud-native and Devops-enabled applications and working with the hyperscale public clouds can help you move workloads to the cloud 96% faster and achieve deployments that are 100% consistent.

How Can You Take Advantage of the Cloud?

MODERNIZE

Give Legacy Applications Agility

Cloud Application Modernization Services from Hitachi Vantara can help you modernize apps during the move to the cloud to make them more agile and cloud-aware in the process. Our expertise in app modernization helps you take full advantage of innovative services in the cloud after the migration, extending applications so that you can intelligently interact with customers and optimize business operations.

How Can You Take Advantage of the Cloud?

MANAGE

Optimize the Management of Cloud Applications

Cloud Operations Services from Hitachi Vantara can help you manage data and applications in the cloud more effectively to extract more value out of your data and improve application efficiency. With a rich set of blueprints and custom accelerators for common data lake deployments, you can efficiently deploy a common data management framework.

When you can leverage all of your data – from the private, public, and hybrid cloud – you can unlock actionable insights that will give your business a competitive advantage in the marketplace.

Did You Know?

Hitachi Vantara has the industry's most comprehensive certifications and partnerships with all leading cloud providers, and a proven track record with customers across all verticals including :

✓ Financial Services

✓ Healthcare

✓ Government

✓ Public Sector

✓ ISV

Case Studies

Your situation is unique, so choosing the right approach to the cloud – and cloud services – depends on your own IT environment and business needs.

To help you develop your own cloud services strategy, here's a glimpse at how Hitachi Vantara customers have successfully approached the cloud.
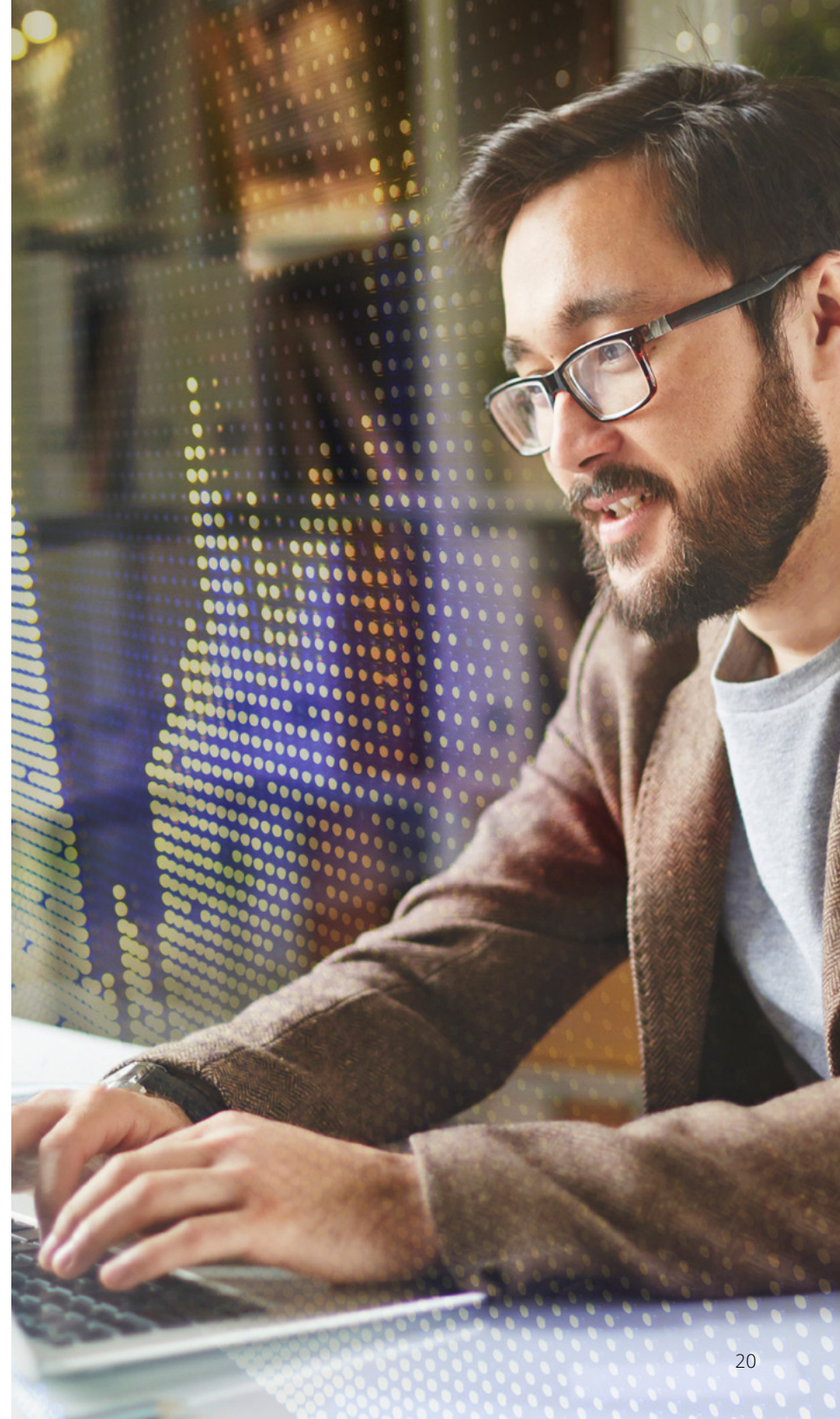
Case Studies

1. The American Heart Association (AHA) Utilized Hitachi Vantara's Cloud Services to Architect a Custom Environment That Streamlines Cardiovascular Research

Hitachi Vantara implemented a well-architected, secure, seven-layer virtual private cloud (VPC). The solution monitors the movement and status of data at all times. Through the unique cloud-based infrastructure, the Precision Medicine Platform will enable increased collaboration among the research community. The result will be better accelerated discoveries for both heart disease and stroke patients. Additionally, the flexibility and agility of the platform helps scientists amalgamate research, identify trends and provide real-time solutions, based on empirical data.

Case Studies

2. Ditech Chose Hitachi Vantara's Best-in-Class Architecture To Create a Secure, Compliant Foundation for Hybrid Cloud Deployment

Hitachi Vantara modernized the IT infrastructure of Ditech to increase agility and add new products and features to their website and applications, while also reducing costs by migrating their business applications and Citrix remote desktop environments to the cloud. The team executed the hybrid cloud deployment based on a secure, best-in-class and future-ready infrastructure that aligned with industry-standard compliance frameworks.
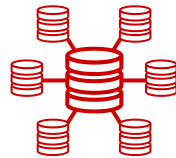
Case Studies

3. **i4C's Pet Care Solution, Voyce, Implemented Scalable Cloud Infrastructure To Optimize Agility**

Hitachi Vantara completed a comprehensive assessment of the existing architecture and designed a defense-in-depth virtual infrastructure to optimize security and agility while processing big data. Voyce was able to ensure constant quality of performance through Operations Services from Hitachi Vantara. The big data platform created by Hitachi Vantara collects and processes streaming data from Voyce sensors. This platform provides insights into key wellness indicators that assist in early pet illness detection and provides cost savings through preventive care.
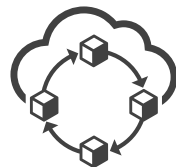
About Cloud Services from Hitachi Vantara

Cloud Migration Services from Hitachi Vantara

To enhance application performance, we can help you move them to the cloud. Our process is strategic (not all apps need to be in the cloud), secure and efficient.

Our cloud migration services provide a complete roadmap to leveraging applications in the cloud.

DATA LAKE AS A SERVICE
Redevelop structured and unstructured data using data lakes and big data. Apply blueprints to save time readying multistage transactional data for analytics and processing.

REFACTORING WITH DEVOPS PIPELINES
Ensure high agility and governance through automated pipelines. Use cloud-native services to optimize enterprise applications without rewriting application code.

REHOSTING TO AUTOMATE APPLICATION DEPLOYMENT IN THE CLOUD
Use cloud tools to accelerate cloud adoption from simple "lift and shifts" to reinstalls that migrate applications.

MIGRATING LEGACY APPLICATIONS
Create microservices to become an API-driven, low-code organization. Simply extract legacy application data in a data lake and create microservices to assemble applications.

LEARN MORE

About Cloud Services from Hitachi Vantara

Cloud Application Modernization Services from Hitachi Vantara

To automate operations and improve efficiencies, we can help you modernize enterprise applications and systems for the cloud.

Four critical layers form the basis for modernizing business in the cloud, starting with our scalable, secure, adaptable data foundation.

MACHINE LEARNING AND AI
Adding advanced machine learning and other analytics is easier when a strong data layer is in place.

INTERNET OF THINGS
The internet of things (IoT) provides a trove of data for analytics that deliver deep insight into operations.

BIG DATA
When applications directly access data, you can get insights fast from existing business logic or new microservices.

APP MODERNIZATION
Extending applications allows you to intelligently interact with customers and optimize business operations.
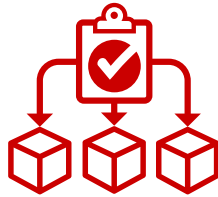
LEARN MORE

About Cloud Services from Hitachi Vantara

Cloud Operations Services from Hitachi Vantara

To migrate and manage applications securely in the cloud, we offer comprehensive, modern infrastructure management and world-class governance.

Our core operations services capabilities for infrastructure and applications include:

ALWAYS-ON INFRASTRUCTURE SERVICES

Infrastructure operations service provide continual proactive monitoring, incident management, process automation, patching, logging, alerting and backup management of the cloud service provider (CSP) environment.

PROACTIVE APPLICATION SERVICES

Application operations service provide proactive monitoring, incident management, automation scripting, release, logging, alerting, database management and backup management of modern application stacks.

LEARN MORE

Data is your greatest asset, if you know how to use it. The key to new revenue streams, better customer experiences and lower costs is in your data. With our experience and expertise in operational and informational technology, Hitachi Vantara drives data to meaningful outcomes.

Learn more at HitachiVantara.com >

Hitachi Vantara
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