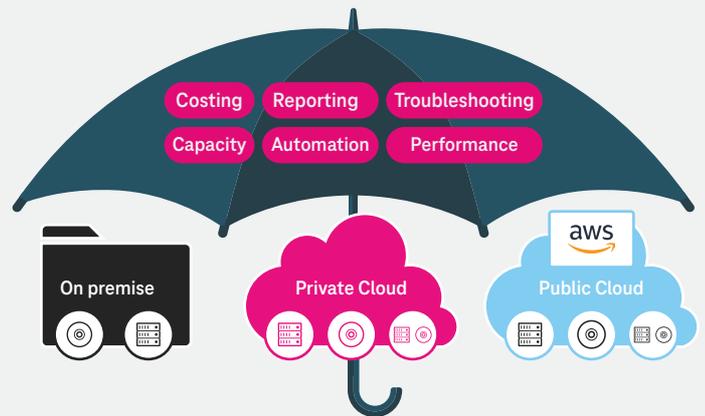# The Cloud Tailor-Made for Healthcare

Addressing Industry Challenges with a Scalable Digital Platform

Modern digital infrastructure plays a central role in this transformation, streamlining healthcare processes through automation, security, standardization, and data management. Orchestrating services across diverse private and public landscapes to optimize cost and performance is critical to hospitals' IT strategy.

Leveraging the Health Hybrid Cloud offers opportunities for system enhancement, data interoperability, scalability, and AI integration, while also bolstering security and compliance. These advancements promise tangible benefits, including improved clinical outcomes, operational efficiency, patient engagement, and staff satisfaction.

T-Systems Health Hybrid Cloud

- Costing
- Reporting
- Troubleshooting
- Capacity
- Automation
- Performance

On premise | Private Cloud | Public Cloud (aws)

Health Hybrid Cloud Advantages

Delivering value for hospitals

Savings
TCO Reduction
Save on Infrastructure as a Service (IaaS) and app/workload services due to a higher degree of automation and more flexibility by using self service models; transition CapEx to OpEx

Leverage new technology
Embrace the digital future
Take advantage of Platforms, DevOps, Container, Big Data, AI

Reliable
High availability
Resiliency ensures availability of your EHR (EPIC) environment and all ancillary

Simplification
Hybrid cloud orchestration
Single pane of glass delivery across Public, Private and Classic environments

Risk Mitigation
Compliant and protected
Support for a full range of compliance requirements -- both platform and

Business Continuity
Safe and secure
Keeping your patient data secure and recoverable in case of disaster

Scalability
Unlimited flexibility
Optimize and move workloads across public and private clouds without the need to refactor

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Let's power higher performance

Hospital IT departments face common challenges...

1	**2**	**3**	**4**	**5**
Disaster Recovery & Business Continuity	**High Availability**	**Cost Optimization**	**Digitalization of Health Records**	**Simplifying the Hospital IT Landscape**
• Continuity of care in event of an outage. • Ransomware attacks; natural disasters. • Disaster recovery following an incident.	• Reliable access to data 24/7. • Dynamic demands for growing data capacity. • Contingency planning.	• Increasing cost pressure across hospital operations. • Managing total cost of ownership (TCO). • Leveraging new technology to reduce costs.	• Data explosion: storing and securing rapidly growing EHR databases. • Data retention policies and storage. • Data exchange requires data management. • Increasing regulatory demands.	• Managing application lifecycles. • Decision making around hosting models (public, private, on-prem) • Integrating IT applications across disparate locations. • Manual processes are inefficient and error-prone.

Our solutions face these challenges head-on.

• Secure comprehensive backup services through a dual-core data center approach tailored for healthcare organizations. • Implementing fail-safe switchovers to respond to ransomware attacks. • Ensure continuity of service through solution design.	• Maintain geographic redundancy to secure data and applications. • Ensure availability based on a twin-core concept (fail-over). • Co-design and develop contingency plans for business-critical services.	• Moving from CapEx to OpEx models for better cost control. • Transparency of consumption to improve cost allocation. • Conduct a Clinical Landscape Assessment to optimize hybrid cloud strategy.	• Rapid scalability to meet exponential growth of data sets. • Ensure compliance with regulatory and security requirements. • Enabling patient records exchange through data management and governance.	• Maintain the regular update of EHR along vendor release schedule. • Consolidating and integrating IT applications across a hybrid cloud environment. • Introduce automation for efficient process management, easing IT team workload.

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