



## Liverpool Women's NHS Foundation Trust builds a private cloud with Novosco, facilitating Disaster Recovery and Business Continuity Plan.

### The customer

Faced with an infrastructure nearing the end of service, Liverpool Women's NHS Foundation Trust (LWH) needed a strategic partner with a track record of delivering hybrid cloud projects from inception to sign-off.

LWH selected Novosco as its expert advisor, based on a solid track record of delivering projects on time, within budget, and aligned with deep infrastructure knowledge. Designing an infrastructure based on VSPEX technologies consisting of Cisco, EMC and VMware, Novosco demonstrated unrivalled expertise in architecting an on-premise private cloud, replicated to an off-premise Disaster Recovery facility, creating their hybrid cloud backbone, and complemented by field-proven project management expertise. This expertise allowed for a smooth transition and implementation programme, enhancing the value of the investment for LWH. The private cloud gives LWH the flexibility and ability to react quickly to the need for expansion, as a consequence of an exponential demand for resources.

Liverpool Women's NHS Foundation Trust is Europe's largest women's hospital and reproductive medicine unit, a regional centre for neonatology and fetal medicine, cyto, molecular and clinical genetics. It employs 1,500 staff and has 250 beds. Every year it makes over 8,000 deliveries and manages 200,000 outpatient appointments.

Their Information Management & Technology department is certified for ISO9001, ISO14001, ISO22301 and ISO27001.

### Overview

#### Challenges

- A solution that can expand and grow
- Return on investment
- Protect critical clinical IT systems and services
- Provide fully resilient Disaster Recovery Solution

#### Solution

- EMC VNX 5500 Storage Array
- VMware vSphere Enterprise Plus
- Cisco UCS Blade Servers
- EMC RecoverPoint
- VMware Site Recovery Manager
- Avamar Grid Technology
- EMC Isilon
- Citrix XenDesktop

#### Results

- Less time spent managing infrastructure
- IT resources in line with demand

#### Benefits

- Reduced management overheads
- Higher return on investment
- More time for patients

## The challenge

LWH's core infrastructure was at the end of its product lifecycle. They assessed that maintaining the existing solution set was simply too costly in terms of management overhead, power and supportability.

It also did not allow the team to fully leverage new developments in technology. This, matched with being challenged to provide higher service levels together with resource issues in maintaining infrastructure elements such as a large physical server estate, led LWH to look for a new infrastructure platform that could assist in the delivery of a better IT experience for Trust staff, clinicians and ultimately patients.

## The solution

Novosco worked in partnership with LWH's IT team and core application vendors to design sufficient capacity to allow a much higher degree of virtualisation, thus reducing the number of physical servers, as well as power and cooling requirements.

The hybrid cloud solution is based on the VMware Site Recovery Manager (SRM) which automates and orchestrates failover, both in test and live, and more importantly, failback.

## Business results & benefits

The adoption of the VSPEX technology stack together with Citrix has allowed LWH to spend less time managing infrastructure and more time on delivering business benefit and enabling patient care. Management overheads have been reduced by ensuring that resources are redirected in line with demand, whether by utilising intelligent VMware functionality, EMC's VNX automated storage tools or Cisco's next generation blade infrastructure.

By providing a fully resilient IT infrastructure, the business can be assured that data is safe and available on a 24/7 basis, and that systems and processes are available at the point of care, wherever it is being delivered.

Novosco's expertise in delivering this private cloud solution allowed for a smooth transition and implementation programme, enabling LWH to further enhance the value of their investment. The continued partnership with Novosco allows for LWH to further leverage the investment, by giving the ability to react quickly to the need for expansion and enhancement to the IT infrastructure, and by working together to ensure that delivery is rapid, secure and compliant.



"We selected Novosco because they deliver on their promises. They have deep understanding of both our challenges and of the technologies they work with. This has been consistently demonstrated throughout our three year partnership as they have continued to add value and respond to our rapidly changing demands. We really value their insight and professionalism."

**David Walliker, CIO,**  
**Liverpool Women's NHS**  
**Foundation Trust**