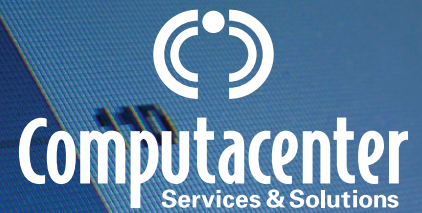


# Virtualisation Audit



The Computacenter Virtualisation Assessment allows customers to make informed decisions and understand the true costs associated with virtualising their existing physical server workloads. The data modelling activity allows critical decisions to be made safely by identifying the most appropriate virtualisation technologies to use, which workloads to virtualise and accurate infrastructure requirements for hosting your virtualised workloads.

## What we do

Identifying the right tools and workloads to virtualise can be complex. Customers need to understand which virtualisation technologies to use, the consolidation ratio's they can safely achieve and the infrastructure that will be required before the business case for virtualisation is completed.

Computacenter's virtualisation assessment consists of a number of activities that result in a set of validated recommendations presented to the client in a documented report. The process includes the following four stages:

### Planning meeting

- Introductory meeting and workshop to identify customer goals
- Infrastructure pre-requisites are discussed prior to Data Collector installation
- Project objectives are documented

### Assessment activities

- Deployment of Data Collector
- Tools-based discovery of systems to be audited
- Data modelling activities

### Findings and recommendations document

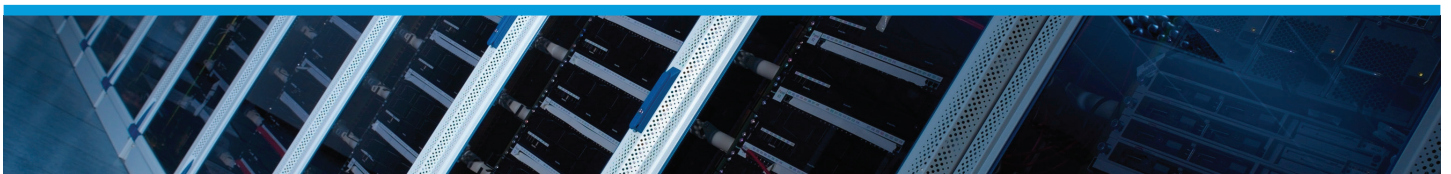
- Document summary
- Virtualisation candidate selection
- List of non-suitable server candidates for virtualisation
- Server utilisation summary report by operating system, CPU utilisation levels – peak and off peak
- Servers with high memory, CPU and disk utilisation
- Servers memory, CPU, storage peak utilisation by hour
- Consolidation scenarios by target vendor platforms
- Loading thresholds
- Servers by site (single site assessment is the default)
- Basic server hardware and licensing requirements
- Conclusions and recommendations
- Next steps
- Glossary of terms

### Project close out

- Customer acceptance that the service has been performed

*“Since implementing the new server infrastructure, we have greener, simpler and more cost-effective datacentres. Computacenter had an integral role in ensuring the success of such a complex project, we were impressed by the openness and the collaborative approach taken by the project team.”*

*Steve Houghton,  
Infrastructure Architect at Aviva*



# Virtualisation Audit



**Computacenter**  
Services & Solutions

## How it helps

Virtualisation technologies enable customers to reduce their capital expenditure by consolidating multiple workloads onto a significantly reduced number of host servers – often by a ratio of more than 25 to one. As well as reducing the number of physical servers required in the datacentre, significant cost savings are returned through a reduction in the power & cooling requirements, enabling a more Green IT at a reduced cost.

### Key virtualisation facts:

- 91% of all enterprise servers bought in 2006 are x86-based
- 5-15% is the utilisation level of an average x86-based server
- Servers are reliable. Over 80% of downtime is planned or known about in advance
- 80% of all customers are actively investigating some type of consolidation
- For every one pound invested in new IT infrastructure, approximately ten pounds is spent maintaining legacy IT, thus limiting innovation

Server virtualisation enables organisations of all sizes to run multiple applications and operating systems on today's high-performance servers. Therefore, instead of seven machines each running at 10% utilisation, you can now run one machine at 70% utilisation.

Significant cost savings in hardware, power, space, and cooling can be realised since there are fewer machines running. In addition, server virtualisation also provides other benefits and allows IT departments to:

- Dynamically allocate computing capacity
- Eliminate System downtime
- Ease IT management and expense

## Deliverables

Computacenter's end-to-end service capability means we have the insight to help effectively design, build, test, and manage IT infrastructures. This means solutions can be implemented according to plan with less cost, less time and greater certainty.

### Breadth and depth of technical skills

We constantly maintain the highest levels of accreditation with virtualisation vendors such as VMware, Citrix, Microsoft, and Sun. Our breadth of technical skills enables a holistic approach, considering the benefits and implications of virtualisation from operating systems and applications to storage and management tools.

### Unique heterogeneous testing facilities

Computacenter's Solution Centre is the UK's only full scale, heterogeneous environment for testing and benchmarking. Through this facility, technologies can be investigated and real customer environments configured to ensure the solution is fit for purpose before investment.

### Broad partner portfolio

In addition to defacto solutions for virtualisation, Computacenter has access to a broad range of complimentary technologies such as PlateSpin and BladeLogic to deliver the optimum solution, rather than 'one size fits all'.

## Where we have done it

Computacenter transformed two of Aviva's datacentres by consolidating and virtualising the environment. This resulted in the consolidation and migration of 320 applications, upgrading 688 servers and decommissioning more than 220. The project has reduced costs and reduced server provisioning time from six weeks to less than one.

## What next?

To find out how Computacenter's Virtualisation Audit can help you, please contact your account manager or email: [enquiries@computacenter.com](mailto:enquiries@computacenter.com) or visit [www.computacenter.com](http://www.computacenter.com)

