Server Virtualization Assessment

The Orange Business Services Server Virtualization Assessment consulting service provides you with an understanding of the current capacity utilization across your server environment and identifies opportunities for server consolidation and virtualization. It can help maximize your current server investments and accurately determine capacity requirements.

why a Server Virtualization Assessment?

Measurements indicate that a server is often only utilizing from 5-15% of its capacity to service an application. With appropriate analysis and virtualization, many of these under-utilized devices can be combined into a single physical server, consuming only a fraction of the power of the original devices, saving on costs and taking a step towards a more environmentally friendly data center environment.

Other benefits of a virtualized and consolidated infrastructure include simplified system provisioning and administration, reduced facility costs (floor space, cabling, power, cooling, etc.), improved reliability and availability, faster recovery and less expensive disaster recovery.

plan: discover, analyze, recommend

Orange provides data center services and solutions to achieve the highest levels of information availability for our clients' business applications.

A critical component of our service delivery is to conduct an assessment of your current data center and storage environment, leverage industry best practice and evaluate emerging technologies to investigate how these factors impact your environment.

The result of the assessment enables us to devise a server consolidation strategy and blueprint best suited to your existing situation, culture and business vision.

the challenge

One of the biggest challenges IT organizations face is capacity planning: to have the right amount and type of capacity, at the right time. Other obstacles include low IT productivity, increased complexity and lack of predictability, all of which result in poor visibility into the organization's infrastructure and inadequate capacity-planning capabilities.

some questions to consider:

- Are you under pressure to optimize/cut your server infrastructure costs and spending?

- Are you under pressure to deploy additional/new business applications against a decreasing or stagnant budget?

- Are you under pressure to provide very high availability to your key applications?

- How many servers do you currently manage in your environment?

- Will standardizing your server inventory improve your productivity?

- How do you determine your server capacity and measure utilization against this?

The Server Virtualization Assessment Service allows you to analyze, benchmark and predict capacity utilization, providing greater visibility into your IT infrastructure. It helps identify consolidation opportunities and model various scenarios. Clients are presented with clearly articulated scenario outcomes, a total cost of ownership analysis and validated architecture recommendations.

the assessment

The Server Virtualization Assessment is a compelling solution for organizations that are challenged to increase productivity, reduce complexity and improve the predictability of their IT infrastructure.

The Orange Consulting team conducts the assessment, which intelligently measures the capacity utilization of your infrastructure, identifies opportunities for consolidation and delivers a virtualization roadmap for effective server consolidation and containment.

our approach

Discover…Analyze…Recommend

- Our analysis considers backward (for existing server hardware) and forward (for projected future server requirements) consolidation.

- Ideal virtualization candidates are identified, and consolidation costs are estimated.

- An agent-less tool is deployed in the environment to discover, inventory and gather performance information on all target servers.

- Workload modeling is performed on the information gathered during the assessment. It is used as the foundation for an architectural blueprint for a virtualized and consolidated architecture.

- A feasibility report determining return on investment and total cost of ownership of the target infrastructure is produced to enable business justification for proceeding with a server consolidation project.

Server Virtualization Assessment Steps

1. business objectives of the consolidation workshop

2. technical workshop

3. non-intrusive, agent-less information gathering tool deployment in the live environment

4. analysis of collected data

5. detailed consolidation report based on actual production environment data

6. presentation of the report to key personnel

benefits

- **reduction of wasted server capacity and improved utilization rates**
  The assessment helps you gain visibility of all the servers in your IT infrastructure and their locations. It also provides a performance analysis that determines the average utilization of the existing environment and identifies anomalies based on industry averages. Anomaly identification allows problems to be identified and corrected prior to migrating to a virtualized environment.

- **a step in the right direction towards green computing**
  IT departments are under increasing scrutiny and pressure to deliver environmentally sound solutions. Factors including reduction of energy consumption and carbon dioxide emissions in data centers often provide the impetus for becoming green. This can be achieved in part by embarking on server virtualization projects and having a clear roadmap for a future environment.

- **consolidation and virtualization roadmap**
  Candidates for consolidation and virtualization are highlighted in the assessment, and these form the basis for a roadmap that includes an architecture design blueprint, a "what if" analysis highlighting the estimated costs and likely outcomes of different scenarios.

- **business justification**
  Potential cost savings through a server consolidation project are estimated as part of the assessment. These can include, for example, reduced facility costs (floor space, cabling, etc.) and reduced administrative costs. One of the deliverables of the Server Virtualization Assessment is a feasibility report with return on investment and TCO of the target infrastructure, which can be used to obtain business buy-in to commence with a server consolidation project.

deliverables

Following your Server Virtualization Assessment, you will be provided with the following information:

Feasibility Analysis: a preliminary total cost of ownership and return on investment analysis of the sampled environment

Results of a Server Virtualization Assessment, which investigates:

- hardware audit

- total server count and configuration profile

- total device count

- total operating system

- performance statistics

- anomaly detection

- threshold setting recommendations

An Architecture Design Blueprint for a Virtualized Server Infrastructure, which includes:

- server consolidation roadmap

- items to consolidate

- virtualization recommendations

- obsolete servers

- re-deployable servers

- re-configurable servers

- infrastructure improvements

The findings will be presented to key personnel in your organization, and will also be used as the foundation for implementing your server virtualization project.

why Orange?

- Orange has extensive, in-depth experience in the data center and IT infrastructure field and a proven track record.

- We provide a complete range of services, from technical and financial assessment to fully outsourced infrastructure services.

- Our certified consultants' skills range from server virtualization, desktop virtualization and SAN storage to network, WAN and security expertise and are available as needed for customer projects.

- Orange is your single source for all your data center, LAN and WAN services.

For more information about a Service Virtualization Assessment or other services from Orange, contact your local account team or visit our website at: www.orange-business.com.

**for more information, visit
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