



• Disaster Recovery & Business Continuity

- Automatic Cross-Site Replication
- Synchronous VM Mirroring
- Citrix XenServer Protection

Introduction

Many organisations do not consider disaster recovery (DR) and business continuity (BC) planning until they have experienced downtime or a significant loss of data. Mature organisations consider DR and BC planning as a form of insurance. Like insurance, every organisation should consider its tolerance for risk and decide what level of DR/BC constitutes a proportional response.

Virtualisation significantly benefits a DR/BC infrastructure. It provides quicker recovery from a disruptive event through easier replication of the production environment at reduced cost. It is faster to recover a virtual machine than a physical server and recovery can be instantaneous on another site. If the recovery procedure requires the creation of a new server, this can be achieved quickly by utilising templates in a virtual environment.



A Citrix XenServer virtualisation platform combined with tools available from 360is allows organisations to plan and recover from any kind of server outage. We are the first to bring together all these technologies and offer them as turn-key DR and BC solutions.

Approach

Citrix XenServer Capability

Citrix XenServer combined with tools implemented by 360is consultants provides organisations with a DR and BC solution while minimising the time and resources needed to implement and support it. Citrix XenServer provides a number of built-in features that offer the ability to easily shift workloads across physical servers, allowing you to perform maintenance without disrupting service. You can snap-shot virtual machines running on NetApp storage giving you the ability to recover in the event of a crisis as well as replicating the entire Citrix XenServer Resource Pool between storage arrays.

Marathon everRun[®] VM Capability

We can help organisations design and implement a virtualisation strategy that provides instant fail-over, preventing application downtime and data loss throughout disruptive events. Marathon's everRun VM delivers reliable protection for critical virtual workloads by providing redundant virtual machines and synchronised mirroring of your network, storage and data. The integration of Citrix XenServer's performance and a unique software fault-tolerant architecture gives you the confidence to run business critical and other essential applications in virtual machines.

SteelEye[®] Protection Capability

A solution with the SteelEye Protection Suite for Citrix XenServer provides data replication, high availability clustering and XenServer-specific optimisations to deliver end-to-end XenServer protection. SteelEye protects XenServer with built-in data replication, fast and automatic failure detection and recovery of both physical and virtual servers, and comprehensive monitoring and recovery for individual applications.

Platespin PowerConvert®

To ensure continuity between both physical and virtual machines 360is currently recommends the use of Platespin PowerConvert software. PowerConvert is a powerful enterprise-ready workload portability and protection solution that streams server workloads over the network between physical servers, virtual hosts and image archives. Organisations can move whole server workloads from a physical to virtual environment via either file-based replication or high-speed block-level transfer, protecting transactional workloads. Incremental transfers ensure that only changes to source data files are replicated to the target environment.

People

Our consultants are experts, having worked previously in senior roles for the worlds largest and most successful ISP. With an estimated 70% of the Internets traffic passing over their network, they deployed and managed thousands of systems for blue-chip Times Top 100 and Fortune 500 customers. We have advised a number of public bodies including the Financial Services Authority and the Criminal Intelligence Units of a major UK police force. Staff are highly referenceable via previous engagements with top 5 Investment Banks, Telcos, vendors and ISVs. 360is has over 40 customers running production systems on virtualized infrastructure designed and implemented by us.

All our consultants have previously occupied positions of responsibility within organisations where the buck stopped with them for architecture and datacentre operations.

Research & Technology

In order to keep abreast of the latest developments we maintain a close relationship with virtualization vendors and carefully monitor newsgroups, mailing lists, web sites, and chat rooms. During the execution of our duties we routinely use a mixture of open source, commercial, and in-house developed tools.

Deliverable



Our DR and BC solutions are bespoke to each of our customer's environments. Our consultants carefully assess your risks and recovery aims and produce a detailed protection plan utilising a number of technologies. You will be left with a DR and BC infrastructure that meets the organisations

needs in the event of service disruption.

Conclusion

360is has gained a reputation for delivering the highest quality solutions. One of the key reasons for this is that our consultants have a long history with virtualisation technologies and have been involved with the space since its conception. This gives them the hands on experience and training to deliver not only what is expected but to advise on best practices and hard-earned knowledge from real deployments at companies like your own.

All trademarks and registered trademarks mentioned herein are the property of their respective owners. This document is copyright Three Sixty Information Security Ltd.