



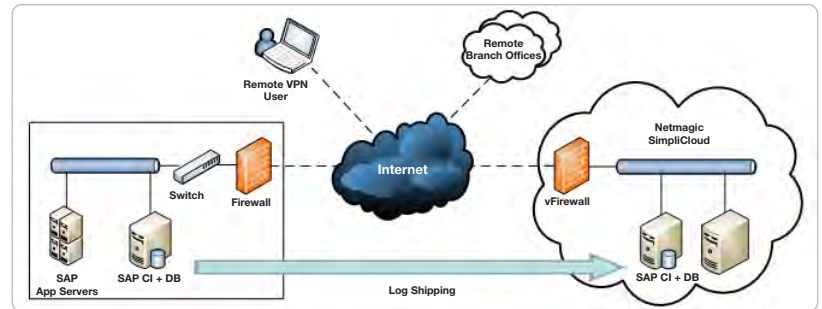
Case Study - DR on Cloud

“SAP as a tool is core to Netmagic's business operations and thus not having DR was never an option. With the organization scaling and depending heavily on SAP, we were forced to implement DR. With multiple Datacenter's that Netmagic has and access to the huge bandwidth pipe made it easier. With cloud computing and virtualization becoming commonplace it was inevitable that wherever possible, Netmagic being a thought leaders, applications were being moved to a virtualized or cloud environment. It was so much easier to move the SAP DR to Netmagic SimpliCloud because of the technology that has been used to build this has VMware, Cisco UCS and EMC. The migration was smooth and we are happy to now say that we have our SAP DR running in the Cloud. We have been able to save so much in terms of Hardware and complexity and management. I am sure this will open doors for many other customers with similar Production setups who can now setup DR on the cloud and enjoy the benefits of cost, scalability and have a proven DR/BDP in place. Our Next experiment will be to move our production environment to the cloud as well at an appropriate time.”

Jayabalan Subramanian, CTO & Co-Founder, Netmagic Solutions

Netmagic SimpliCloud is an ideal solution for both SMEs as well as large enterprises that run a SAP environment for production, development and training. The flexibility to scale up or down and pay-as-you-use model inherent to the Cloud help mitigate the reluctance to invest in a capital intensive DR facility.

The following network diagram shows a high-level design of Netmagic's SAP DR solution:



The enterprise can deploy the SAP DR Solution on the Netmagic SimpliCloud using the following Virtual Environment:

- Virtual Machines on Netmagic SimpliCloud with below Configuration,
 - VM 1: 4 vcpu; 8GB RAM; 120GB HDD; Windows 2003 ENT R2 64bit
 - VM 2: 4 vcpu; 10GB RAM; 270GB HDD; Windows 2003 ENT R2 64bit
- Virtual Firewall
 - SimpliCloud Large Firewall Instance which provides support for Site-to-Site VPN Tunnel as well as Remote Client VPN
- Site-to-Site VPN from SAP Dedicated Cisco PIX Firewall at the Primary site with the vFirewall as part of the DR Cloud.
- The hardware sizing is designed for Recovery Time Objective (RTO) of 1 hour.
- The transaction logs generated every 10 minutes and are shipped from Primary to DR site. Each transaction log is of approx 7-8 MB size.
- The transaction log-shipping will not be applied immediately but after an interval of about 30 min from the start of every log-shipping process. Hence, the Recovery Point Objective (RPO) is 30 minutes in this case.

Key Takeaways

DR on Netmagic SimpliCloud extends the following benefits to small and medium enterprises:

- It is a complete solution and offers the flexibility to pay-as-you-use.
- Having physical servers for DR is expensive, but since this solution is on virtual servers, it is extremely cost-effective
- DR on cloud allows business enterprises to choose the recovery window based on their requirements. The cost will completely depend on what they choose.
- Scalability: Hosting the environment on the cloud allows hardware to be instantly scaled, drastically reducing upgrade lead times.

