



Cross Platform Disaster Recovery with eNlight Cloud



About Company

Our client is government's largest power generation sector in India and has the highest overall power generation capacity. It comprises the highest yet very well balanced power generation portfolio involving highest thermal, HYDEL and gas installed capacity amongst all the state power generation utilities in India.

The organization is an eco-friendly power generation company which has adopted ISO: 14001 and ISO: 18001 Certifications. Eco-friendliness is achieved with a network of hydro and thermal power plants. Power is generated for

over 15,000,000 residential and business customers in India using an infrastructure that is supported by over 15,000 highly skilled engineers.

Keeping in mind the overall efficiency of the organization, they introduced a centralized control room at the corporate office to monitor all power plants and the dispatch of the output. At the same time SAP-ERP modules were also introduced in order to let employees at all power plants access the same range of applications regardless of their location.



Business challenge

1. Deployment of a Disaster Recovery (DR) site to ensure that applications are always accessible to all users:

In the event of primary SAP site being unavailable, the client wanted a secondary site deployed to take up the functioning of operations/processes in order to maintain continuity and prevent a major disruption in work. The goal of Disaster Recovery project is to have a business data in the correct state upon switch-over in a cost effective manner.

2. The client wanted this solution to be cost effective since they had budget constraints that put traditional DR models out of contention:

Traditional DR models can be expensive to setup and maintain, as they require the entire physical infrastructure at the main site to be replicated at the DR site as it is, which increases the CAPEX twofold. This proposition makes the traditional DR setup an unattractive option as large pools of resources often go unused with the DR site.

3. Client required a Secure & Robust DR solution which would suffice their demand for 100% Business Continuity & Data Integrity.

Key Business Challenges

- ✓ Need of a cost Effective & Reliable (DR) Disaster Recovery Solution
- ✓ High Capital Investment, Frequent Maintenance & set up outlays
- ✓ Unreliable server performance due to lack of resource management
- ✓ Assuring 100% Business Continuity
- ✓ Maintaining Security of critical mission data



Solution

After successfully going LIVE with SAP running through client's In-house Data Center, client needed to now proceed with reliable business continuity which would provide scalable performance whenever required with all SAP modules. ESDS realized that client's critical requirement was High Availability of their SAP/ERP applications for their users ensuring 100% transaction success rate.

Considering these aspects, ESDS recommended **Cross Platform DR** concept to the client. This Solution is specifically suited to host modules with dynamic data like SAP / ERP modules which are likely to be comprised of huge databases. The proposed solution "**Cross DR Platform**" has been designed very carefully to ensure a constant availability of the SAP modules to the users in case of any disaster at the primary site. The highlight of this proposed solution is that the entire SAP environment is on eNlight Cloud environment, which runs on "x86 platform" instead of proprietary hardware & Operating System.

With **ESDS Cross Platform DR** solution, any client using HP UNIX or IBM AIX or any hardware (in this case HP UNIX) can host their DR environment in Cloud environment powered by eNlight Cloud. **eNlight Cloud** is a state-of-the-art x86 cloud platform that has been developed in-house by ESDS. This indigenous Cloud platform has the ability to provide flexibility in the form of Dynamic Auto-Resource Scaling On-the-Fly, application porting and huge cost savings without compromising on the performance.

One of the main features of **eNlight Cloud** is **Dynamic Resource Scaling**, which allowed the client to create VMs and run their SAP modules on DR Site with no downtime. Only the minimum amount of resources necessary to run the modules at a stable level are used at all times thereby eliminating the possibility of resources being wasted or unused. ESDS' eNlight Cloud allowed client to achieve a similar DR solution for a fraction of the cost of traditional DR and most importantly, within their budget.



Business Benefits

- ✓ Reliable & Rapid DRaaS Delivery with easy to implement Automation
- ✓ Real time Data Synchronization
- ✓ Reduced CAPEX up to 90%
- ✓ High Transactional Integrity
- ✓ Server performance remained in proportion to the demand due to continual Monitoring & Auto-Scaling
- ✓ A robust secured environment, as ensured by eNlight cloud due to its automated HA, regular backups & state of the art storage
- ✓ Auto & Easy Restoration of Primary site
- ✓ eNlight Cloud's iNtelligent Managing & Monitoring feature maintains Data Integrity of client's mission critical web applications
- ✓ No Data Loss & No Down Time
- ✓ Unmatched Flexibility & Fast Recovery





Solution

SAP ENVIRONMENT DEPLOYMENT, CONNECTIVITY & SERVICES OFFERED

- ✓ DR site contains a cluster of physical servers hosted at ESDS Data Center; running the in-house developed eNlight Cloud Platform to form a private cloud dedicated environment for client.
- ✓ In the event of a disaster i.e. at the primary site, delivery of SAP modules will be initiated from DR site i.e. at ESDS DC. All users are connected to clients primary site from where a dedicated link is provided to allow traffic to flow to ESDS' DC so as to enable clients users to access SAP modules from DR site. Since SAP modules are hosted on eNlight Cloud ; all virtual servers are capable of auto resource scaling on-the-fly .Which means that whenever the load on the virtual server goes up, the eNlight VMs hosting SAP

systems will scale up resources like CPU & RAM automatically as per the demand and similarly scale down when the demand goes down.

REAL TIME DATA MIGRATION

- ✓ Cross Platform DR offers latest data replication methodology which enables High Resource Availability & Disaster Tolerance along with core functionality that supports real time data synchronization with minimum overheads & flexibility in resource auto- scaling.
- ✓ This solution allows real-time data synchronization between heterogeneous source and target thereby enabling real-time solution, Zero Downtime System Upgrades, data synchronization, disaster recovery and migration between various databases.

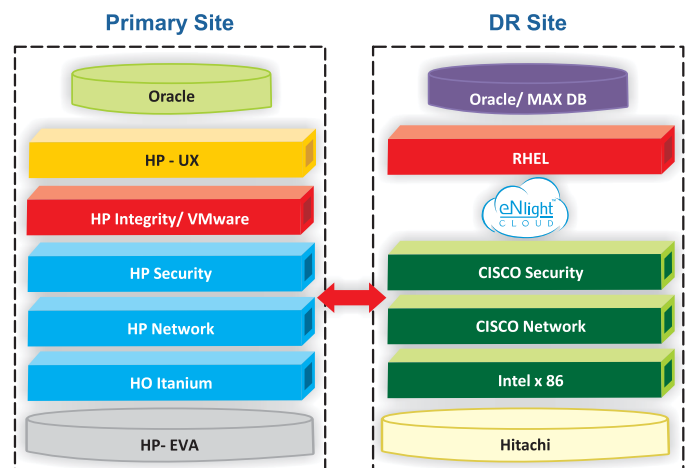


Solution

By using eNlight cloud the SAP environment will get the required amount of resources as and when required without any downtime or manual intervention and that too on x86 platform. There would be no dependency on any single physical server, as there are multiple servers in the cluster. In case; if any server within the cluster goes down, the VM's running on the server will be migrated automatically on to other physical servers thus keeping the modules running on the VM's without any disruption.

This gives very high level of scalability along with availability of SAP application & critical data to end user without having any major business impact at significantly very competitive cost.

Cross Platform Disaster Recovery on eNlight Cloud Platform Neutral Business Continuity Solution





Key Takeaways

- ✓ eNlight Cloud's Cross Platform Disaster Recovery Service ensures Reliability & Business Continuity with 100% Business Availability in the case of disaster.
- ✓ DRaaS is a completely Automated Solution that saves time to set up a DR site and restore the DR and primary site in case of a disaster. Also, hosting of only the essential modules reduces unnecessary costs which are also backed up with eNlight's Pay-Per-Consume Billing Model.
- ✓ Client was able to eliminate the huge maintenance & capital overheads with eNlight's highly optimized Billing Model.
- ✓ This solution affirms High Availability of essential SAP modules & accessibility of these, during a disaster with 100% application Uptime.
- ✓ eNlight Cloud's Dynamic Resource Sharig environment led our client to enjoy tangible business gains at highly optimized price.
- ✓ ESDS' Cross platform DR guarantees utmost Flexibility, Data Consistency, and Data Integrity with Superior Performance.
- ✓ With this unique solution, ESDS provides assurance to protect its clientele's IT assets & guarantees a High Availability of application when a disaster strikes. It ensures greater protection with minimum hassle, at the lowest possible cost.



About ESDS

ESDS offers a comprehensive suite of fully managed data center services ranging from Cloud Hosting, Co-location, Managed Dedicated Servers, Grid Server Hosting, VMware, Virtuozzo, Windows Server, 2008 Hyper-V Virtualization server setups, Application Services and eNlight Cloud Services. With more than 35,000 Satisfied Customers and presence in India, UK and USA. ESDS

ensures a world-class hosting environment and offers a comprehensive suite of fully managed data center services, innovative solutions backed by breakthrough thinking, secure systems and depth of expertise ensure your business retains that competitive edge long into the future.

For Information please visit : <http://www.esds.co.in/>