



ENESEL S.A.

High availability, unified communication based on Skype and RPO/RTO based disaster recovery plan where flawlessly implemented

Overview

Country: Greece

Industry: Shipping

Customer Profile

Enesel S.A. is a ship-management company based in Athens, Greece, operating a diverse fleet of ultra-modern high specification tankers and containerships, additionally it supervises a large multi-order fleet of efficient Ultra Large Container Carriers.

Business Situation

The company needed:

- a high availability solution that would ensure maximum up time
- a disaster recovery site
- a unified communication system

Solution

Office Line SA virtualized and made highly available all the servers and their services (Exchange, DR Site, Skype for Business) plus a fully working disaster recovery site based on RPO/RTO parameters.

Benefits

- High availability of all critical services

Situation

The company was mainly operating on Windows 2003 servers with only exception their messaging system which was running Microsoft Exchange 2013 on a Windows 2012 server. This was a major problem as the company had the need to become highly available and redundant with the addition of a full recovery site and a unified communication system for all employees both at the offices and on the ships.

Solution

Office Line SA designed and implemented 3 different solutions, one for a highly available messaging system, one for the unified communication systems and one more for a disaster recovery site.

3 HP Servers connected to HP's 3PAR SAN storage solution with 10GB ISCSI connections along with 2 HP 10GB Stacks (IRF) that were hosting the visualized environment based on Windows 2012 R2 Hyper-V. The exact same specs and topology was used for the disaster recovery site.

In order to fully monitor both software and hardware 2 modules from the Microsoft System Center suite were installed:

- System Center Operations Manager
- System Center Virtual Machine Manager

The next step was to make Exchange 2013 highly available and for this purpose the creation of Database Availability Group as well as the configuration of all other services in a highly available environment was mandatory.

Microsoft's Skype for Business Server was installed in order to fully satisfy the company's needs for communication from any device and any place. The system was modified in order to communicate with the company's messaging system as well as the federation with public providers.

The backup solution was implemented by using VEEAM. A highly effective and optimized software solution that apart from local backup it was used to create and maintain the disaster recovery site based on RPO/RTO parameters.

Benefits

High Availability

ENESEL's setup was now highly available on both the hardware and the services provided to the users. The implementation of a disaster recovery site based on RPO/RTO parameters offers peace of mind to both the IT staff and the owners. Skype for Business offered a unified experience to all users either at the office or on board.

Other

- Full synchronous real-time replication of a virtual machine with failover
- User communication through any device (desktop, laptop, smartphone, tablet).

Contact Us

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