# Lightweight script based Disaster Recovery solutions for Indian Defense

## The Ask?

Can you give us some lightweight script based DR solution for few applications provisioned on SAN storage.

## Request:

Customer was using email, intranet and few BPM application on SAN based storage. Customer was looking for lightweight script based data management solution that could give them cross site data protection. The recovery time SLA should be less than 10 minutes.

## Answer:

Synectiks conceived, designed and developed a scripted total DR Solution that customer was using for their DR requirement of existing six SAN based applications.

## Challenges:

Customer had only 4 Mbps site to site leased line for data transfer. Customer did not want to use array based replication neither FCIP based switch communication due to pricing aspect. Customer was looking for a lightweight , script based DR solution, that can be easily managed and be extended.

## Solution:

We used copy on write technology advantage that takes incremental snapshot on a purpose-built storage. We performed the deduplication of those snapshot and transfer across site by simple zfs send- receive. A script was periodically restoring the data on restore pool in DR site. In case of failover, we could recover application instantly – since its mare mount so recovery time was almost zero. No rocket science. Some open source tools could work together with some simple scripting and automation and delivered the solution they were looking for. The solution was only made of components like snapshot engine – pool provisioning – zfs based storage and virtualization technique. All come with freedom to unlimited extension / customization.

## ROI -TCO

It helped them to have the DR solution in 10% cost what a licensed DR product were costing.