

# **DR on AWS Cloud**

CASE STUDY LUX Industries Limited

March 2022

## **About Lux Industries Limited**

LUX INDUSTRIES LIMITED based out of Kolkata, West Bengal, India is a part of the Apparel Manufacturing Industry and has built an enduring brand image (as the people's brand) in the hosiery market.

Lux Industries has 7 factories and 11 offices across various cities in India with over 900 employees and as many as 17 companies. in the corporate group.

Lux Industries has the latest machinery and superior raw materials in-house in its latest project in Dankuni, West Bengal. Spread over 21 acres, it has an in-house processing unit and maintains extensive & stringent quality controls across all the production stages.

## **Executive Summary**

Lux Industries Limited is having its SAP ECC 6.0 EHP 7 landscape running on HANA Database and SUSE Linux OS co-located with Sify Data Center in Rabale, Mumbai. For business continuity, the SAP application – Suit on HANA (SoH), and the business processes it supports, should remain available and accessible without any interruption, despite man-made or natural disasters. It should serve its intended function seamlessly. Hence, for efficient functioning of crucial business operations, Lux Industries intended to have a Disaster Recovery (DR) setup implemented for their Production Instances.

### **Challenges Overcome**

Lux Industries did not have any other DR setup (Secondary Site) other than the primary DC where the hardware is co-located in Sify's DC. To avoid any data loss or interruptions in any form, Lux wanted to setup a DR without investing in too much on CapEx.

### **Solution Proposed**

After exploring all the available options, LUX Industries Limited chose SIFY Technologies Limited as its partner to implement the Cloud DR solution. SIFY had proposed to setup DR on AWS Cloud for their current suite on HANA setup with low opex instead of any capex. In addition, Sify undertook to manage the implemented hybrid Infrastructure setup of Lux Industries wherein their DC co-located in Sify DC would be linked to AWS Cloud over Direct Connect.

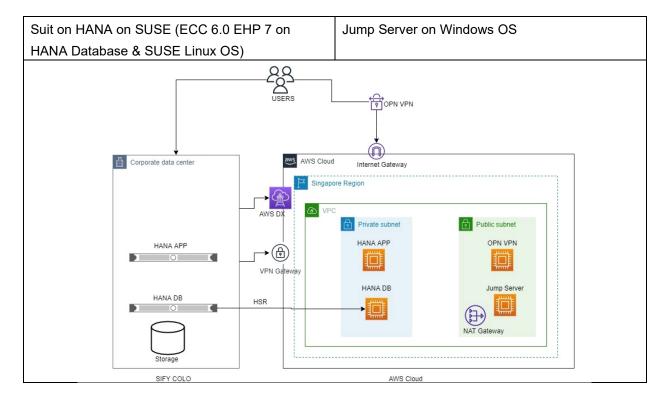
## Key Drivers to choose AWS Cloud Solution for DR

To leverage the benefits of scalability, reliability, agility of the Cloud.			Remotely test anytime from anywhere.
		Secure & Durable cloud disaster recovery platform with industry-recognized certifications and audits.	

# AWS services used to setup DR solution on AWS Cloud

SAP HANA database on Amazon EC2 instance with SUSE.	volumes used for EC2 storage for both application and HANA DB servers.		Amazon VPC has been configured with private subnets and all the application & database servers are hosted in private subnet.
Admin Users will access the server using open		AWS Direct Connect is used to establish	
VPN. During the active scenario, all users will		connection between Lux DC Infra setup colocated	
connect to the Server via open VPN.		in Sify DC at Navi Mumbai and DR in AWS Cloud.	

## **SAP Solutions Used**



# **Solution Description**

Prepared necessary landing zone to provision and deploy workloads.	Sify created AWS A/C in Mumbai Region for reduced latency.		Application server and DB server provisioned in private Tier.		Sify DC communicates with the AWS servers using AWS Direct connect.
For admin access the required ports opened to the static IP and CIDR block as provided by the client.	HANA DB replication happens using HANA native replication method.		S3 buckets creation to store static contents – as per need from SAP application.		Installation of Production Environment for SAP HANA Instance & Solman.
Application server will be shutdown mode and cons 20 hours in a month.		During the passiv the servers are o configuration and active scenario w server instances Prem configuration	on minimum d during the ve increase the as per the On-	landsca	te setup of SAP pe on AWS platform in certified EC2 instances.

# **Security Considerations**

Entire setup is configured using private subnet and environments are isolated with security groups naming convention & tagging.	Security impleme	NACLs & groups are ented to restrict ports between	Access to the AV Infrastructure has restricted to the s IP's.	s been	Root account credentials protected using MFA and is not used for any day-to-day activities.
Using IAM, users and groups are All users will connect and VPN resources as per the requirement.			specific	ail enablement & store in S3 bucket with logs g & restricted access	

# **Automations Implemented**

To maintain the same application state between	Auto-Scaling is enabled to adjust compute
DC and DR, Sify ensured automatic patching and	resources automatically to optimize availability,
compute instance is in power-on state only during	cost, and maintain the performance level of
patching time.	applications hosted in AWS.

## **Reliability and Performances Considerations**

S3 buckets creation to store static contents – as	AWS Import/Export enabled to perform data
per need from SAP application.	transport from S3 efficiently.

## **Cost Optimization**

To ensure cost optimization of all Amazon EC2 Instances, Sify has automated to start/stop Amazon EC2 Instances by implementing scripts and Amazon EC2 Instances are resized based on the requirement and Sify placed servers as on-demand pricing model.

### **Project Timelines**

The implementation of the entire DR Infra on AWS Cloud project including the production servers in DR took 1 month.

### **Customer Benefits**

The standard SLA of EC2 Instance is 99.5% and the SLA for availability and uptime assurance for Managed Services	availability & Flexible pricing.	Achieved more robust operational and performance excellence along with reduction in TCO.
assurance for Managed Services is >95%		

marketing@sifycorp.com

🔇 www.sifytechnologies.com

Follow us on 间 🎔 🕒

Copyright © 2022 Sify Technologies Limited. All rights reserved.

Privacy Policy | Disclaimer