



AWS Storage Public Success Story Format

ISIL

1. Customer name

ISIL –San Ignacio de Loyola Institute

2. Title of the Project/solution

Deploy a DRP solution in the AWS infrastructure for the ISIL.PE web portal

3. Description of the customer's business and category

ISIL (San Ignacio de Loyola Institute) is a Peruvian Institute with more than 28 years of experience, that offers Ten Professional Careers of three years included within the faculties of Management Technology, Design and Communication, has 4 headquarters at the level of Metropolitan Lima being these in Miraflores, San Isidro, La Molina y Jesús María.

4. Customer Challenge

The ISIL.PE web is a portal that shows information of the technical careers of the Institute, such as the whole portfolio offered that involve Diplomas, Short Courses, Corporate Education and Executive Careers; although this website is informative, this is a critical service for ISIL.

For ISIL one of the main problems was lack of storage in their services when these were On-Premises, so they decided to migrate part of their systems to AWS, planning a Disaster Recovery deployment after migration for their critical services. As a starting point to deploy the Disaster Recovery, ISIL has as main challenge is to provide continuity of services to the ISIL.PE portal with the objective of foreseeing some service failure, such as, any storage problem that portal may present.

As a second phase to the initial challenge, ISIL will take the Disaster recovery model provided for ISIL.PE portal and implement it for the whole of its critical services that have storage of almost 7 Terabytes.

5. Solution offered by Canvia

To meet ISIL's challenge,

Continuity of services of the ISIL.PE Portal with CloudEndure Disaster Recovery

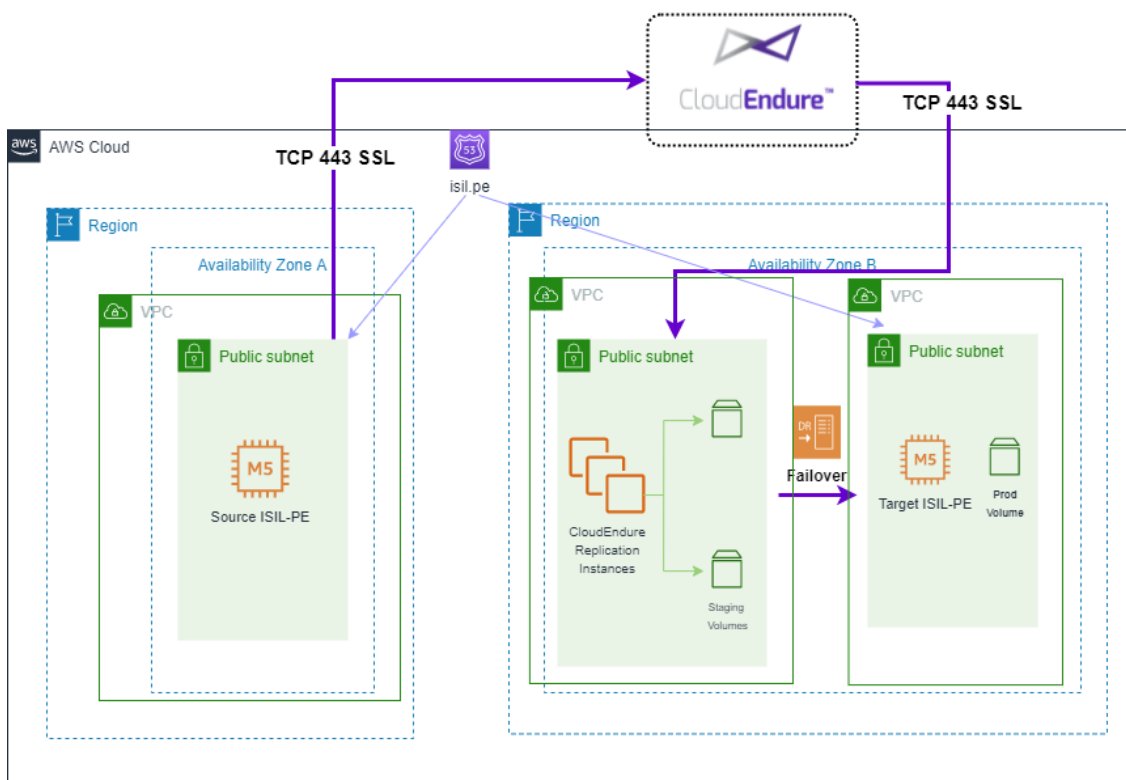
The team of specialists from CANVIA and ISIL evaluated uploading in this first stage of implementation Continuity of services to the ISIL.PE portal.

To provide continuity of services to the portal, CANVIA proposed the CloudEndure Disaster Recovery service, this is a solution based on agents that continuously replicates its source machines to a staging area, without affecting performance. It uses Continuous Data Replication technology that provide of continuously replicates, synchronous and block level of all its workloads running on operating systems such as Windows Server and Linux.

The ISIL.PE portal is located in an Account where the main critical services of ISIL are, the resources that will provide continuity of services to the portal will be replicated to another region separated in another resources account, in order to separate costs and management of Governance of the services in AWS.

Architecture detail

The proposed Architecture for the CloudEndure Disaster Recovery solution of the ISIL.PE portal is as follows:



The architecture follows the IAM level for Access control (security), the servers are deployed in high availability.

AWS Account: The portal is deployed in the Virginia Region; the resources for the Disaster Recovery solution will be located in the Oregon Region and will be in another AWS account.

AWS VPC: The ISIL.PE portal is in a VPC in the Virginia Region, the Staging zone will have its VPC and the target servers when failover occurs will have their own VPC.

Amazon Route 53: The DNS ISIL.PE zone will be positioned in Route 53, likewise, all the records that correspond to this domain. For the ISIL.PE portal will create a primary record that is



addressed to the production server and secondary record that will address to server that starts when failover occurs.

NSG: The Network Security Group is being configured for to open the necessary ports and replication can be successful.

6. How the implementation was carried out?

The implementation was carried out in the following phases:

Planning Phase

Phase in which the work plan, testing activities. The technical details were identified to fulfill the goal of the Disaster Recovery requirement.

Testing Phase

During this phase was carried out a pilot with a test domain, the tasks performed validated the following:

- ✓ Website Access tests
- ✓ Email Access tests
- ✓ Failover Access test through the Amazon Route 53 and CloudEndure Disaster Recovery service.

Deployment Phase

During this phase, the Disaster Recovery solution for ISIL.PE was enabled. The CloudEndure Disaster Recovery solution is configured to replicate the ISIL portal.

The implementation was carried out in two (2) weeks, where Canvia Operations team participated.

7. Benefits achieved

CANVIA and AWS managed to get ISIL to have a CloudEndure Disaster Recovery solution for their services and critical solutions where it obtained the following benefits:

- The time to activate the disaster recovery site was reduced to 15 minutes versus the manual onpremise solution (8 hours)
- Critical application protection through a simple to deploy service such as CloudEndure Disaster Recovery.
- Reduce costs of the disaster recovery service, because the cost of implementing an on premise solution was roughly in the order of \$ 40,000 USD.
- The ISIL portal is available to all external users and students. (Annual Uptime 99.99%)
- Support and guide: Customer now counts with commercial and technical guide led by Canvia specialists for any issue/concern.
- Customer can rely on a 30 minutes SLA to solve incidents and requests as needed. This meant a reduction from days/weeks to minutes towards customer practical solutions through a 24x7 agile support.



8. Because ISIL chose CANVIA

ISIL chose CANVIA for its experience in Cloud services, for the added values it offers, for the certified team it has, which allowed ISIL to provide an improvement in the recovery time of critical services, obtaining such as main goal that the main applications for the business are protected against a disaster.