

QUICK FACTS: Repligen

Company:	Repligen
Location:	Waltham, MA
Industry:	Pharmaceutical
Products:	Biological drug manufacture
Revenue:	\$270M
Employees:	200+
Web Site:	https://www.repligen.com
Solutions:	S/4HANA Process Orchestration Web Dispatcher SUSE Linux
Partner:	Answerthink
Project length:	Feb. 2019 - Aug. 2019

Repligen is a bioprocessing-focused life sciences company bringing expertise and innovation to their customers since 1981. They are inspiring advances in bioprocessing through the development and commercialization of high-value products and flexible solutions that address critical steps in the production of biologic drugs.

Repligen markets their products globally through a direct commercial organization in the U.S., Europe and Asia, as well as through strategic partners in select markets.

Repligen S/4HANA implementation using AWS

Key Challenges

- Repligen wanted to take advantage of the well-documented benefits of the AWS cloud. However, it relies heavily on SAP HANA, an in-memory, column-oriented database, to run its ERP applications.
- Repligen wanted a highly available SAP environment with minimized single point of failures that would recover in minutes if experiencing the loss of an instance, data center or entire Availability Zone.

Solution

- SUSE Linux Enterprise Server (SLES) was used to implement highly available Linux clusters, while SAP HANA system replication, a standard feature of SAP HANA, serves as a reliable HA and disaster recovery solution.
- The solution works by installing SLES pacemaker clusters in an AWS region, which consists of multiple availability zones. Spreading clusters across multiple zones helps overcome individual zone failures. Using AWS IP Overlay routing, traffic is routed to any EC2 instance in a Virtual Private Cloud (VPC) no matter which subnet or availability zone it's in.
- Once the SAP HANA system replication is configured, each HANA internal process connects to its counterpart in the secondary AZ. All logged changes on the primary node are continuously replicated to the secondary node.
- While the system replication is running, the secondary node is ready to take over with data already pre-loaded into memory. This also allows for automatic failover of application in case of any component failure or planned maintenance.

OS platform(s) / DB platform(s)

- SUSE Linux, HANA

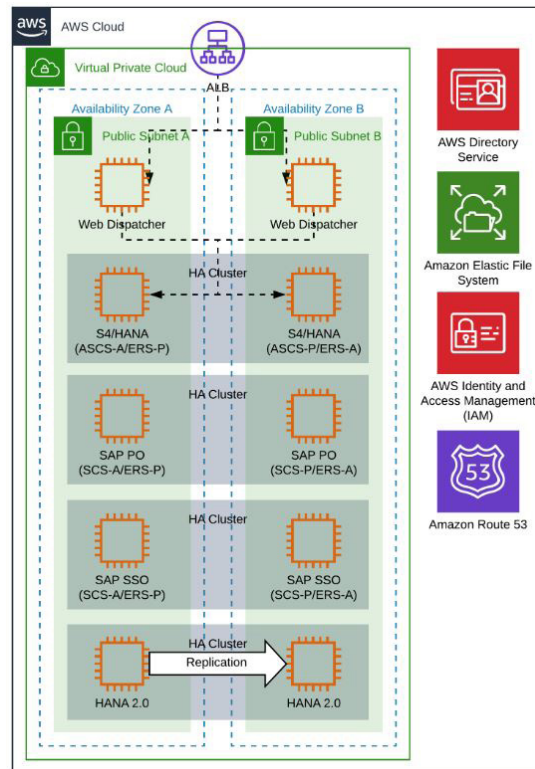
Implementation Highlights

- Complex Infrastructure hosted on AWS with High Availability and Single Sign-On

Benefits

- Fully integrated system with improved business process flows
- Platform for continued global growth and development
- System support for operational excellence and continued improvement

This solution has also freed up resources previously devoted to routine tasks such as traditional platform maintenance. Those resources can now be used for more strategic endeavors.



About Answerthink

Answerthink is a Hackett Group company and certified SAP Platinum Partner consistently recognized by SAP for outstanding service. We have helped hundreds of growing companies make the move to SAP, and we bring this cumulative experience and knowledge to each new project.



Answerthink is a member of united VARs, which is an SAP Platinum Partner.