

We Helped **BioSource** Save Costs and Uncover Real-time Business Analytics with SAP B1 on AWS

Client Overview

BioSource Cultures & Flavors, a trusted name in manufacturing lactic cultures and flavors, is headquartered at Muskego, Wisconsin. Their in-house grown strains at their SQF certified plant are widely used in food, human/animal health, and agriculture industries. The client has a dedicated team of microbiologists, fermentation specialists, and quality experts with over 30 years of experience. These industry experts ensure tailor-made and scientifically-backed products specific to each customer requirement.

Moreover, BioSource also has a Lab R&D team that develops some of the highest count products in the industry.



Business Challenges

As BioSource expanded their business rapidly, they faced the below challenges pertaining to information accessibility and decision-making.

- 1 Inability to derive valuable information through conventional processes, i.e., shared sheets/ Excel
- 2 Lack of visibility to real-time information to the management
- 3 Tedious manual process for Certificate of Analysis and batch planning
- 4 Lack of action planning due to the absence of real-time information

Our Solution

BioSource wanted an integrated solution to align their IT resource capacity and streamline their processes. They were also looking to achieve informed business decision making with real-time access to information. Therefore, they partnered with us to overcome their challenges and achieve an optimized business model.

Our team analyzed BioSource's functional and business requirements and recommended greenfield implementation of SAP B1 (Business One) on AWS Cloud. As BioSource belonged to the chemical industry, there was a significant emphasis on quality; hence, We proposed the solution accordingly. This implementation enabled BioSource to access real-time information and helped them align their growing business needs.

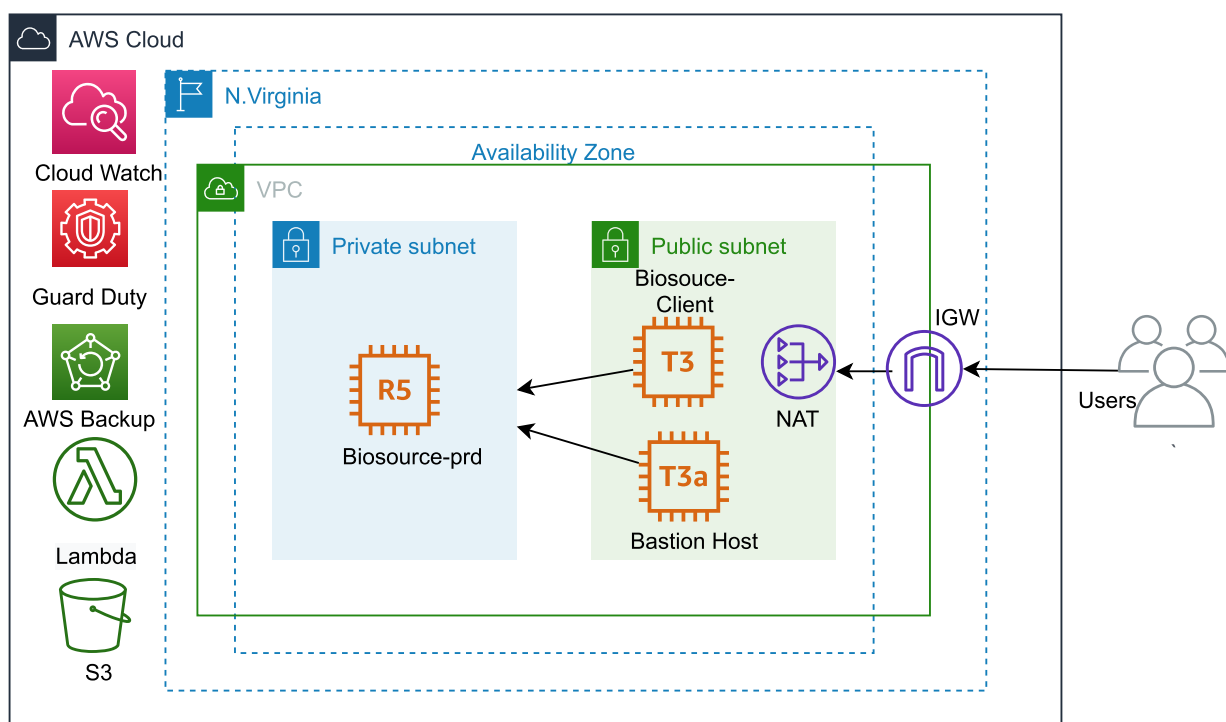
The complete flow of the solution's functioning consisted of the below steps:

- We proposed SAP B1 on AWS cloud with add-on plug-n-play modules like Quality module, Process manufacturing, etc., to gain real-time information access.
- Convenient dashboards and customized reports were generated to offer access for the BioSource management and enable decision-making.
- Automated Certificate of Analysis was generated with configurable PDF & Email options to facilitate the reporting, and Auto batch planning was done as per FIFO rule (shelf-life/ Expire Date).
- An integrated system was established to enable Auto batch planning as per the defined FIFO rule.'

AWS services used

- | | | |
|---------------------|-------------------------|-----------------|
| • Amazon CloudWatch | • Amazon System Manager | • Amazon Backup |
| • Amazon GuardDuty | • Amazon S3 | • Amazon SNS |
| | • Amazon Lambda | • Amazon SES |

Solution Architecture



An Overview of How AWS services helped in building the solution for BioSource:

- **AWS Systems Manager to schedule server activities**

With AWS Systems Manager, the BioSource team was able to view operational data from multiple AWS services and schedule operational tasks across AWS resources, i.e., stopping and restarting an EC2 instance and SAP-based services.

- **AWS GuardDuty to monitor & alert for any malicious activity**

We implemented the AWS security service- GuardDuty to help BioSource monitor and receive alerts for any malicious activity and proactively make informed decisions.

- **AWS CloudWatch to monitor & alert for understanding the health of the workload through AWS CloudWatch**

We implemented the AWS monitoring service – CloudWatch to help BioSource monitor and receive alerts for CPU, RAM, and DISK utilization and get a unified view of the overall operational health.

- **Reduced manual intervention and user-friendly cloud environment**

AWS provided an easy and user-friendly environment that enabled quick switching to a development instance in AWS. Also, no manual intervention is required, which otherwise is a tedious task.

- **Maintaining backup and DR approach as per defined policy**

With AWS backup service, BioSource was able to centralize and automate the backup of their application and database as per the defined policy.

Benefits



Access to real-time information for faster and informed decision making



Real-time information visibility, which helped in proper batch planning, accurate billing and improving overall manufacturing efficiency



Enhanced product quality and minimized rejection rate



Well-informed business and production plan helping with loss prevention and meeting the dynamic business requirements



Significant cost-saving with automatic Shutdown/Restart of VMs during night hours or whenever the application was not in use

About The Partner

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