Qalius CONSULTING INC.

Business Intelligence Dashboard with Amazon QuickSight

Customer Profile

Qalius client ITC Grain International Inc. buys specialty crops throughout North America for worldwide distribution. Custom software from Qalius, deployed to a high-availability architecture on Amazon Web Services (AWS), orchestrates the contracting, purchasing, grading, and distribution process.

ITC GRAIN INTERNATIONAL INC

What was the challenge?

ITC requires a business intelligence dashboard integrated directly in their custom Qalius software. The dashboard needs to show each user the right information for their job function, seamlessly pulling the latest operational status directly from the transactional data in AWS. The solution needs to be a cost-effective alternative to bulky 3rd-party solutions.

Requirements

Embedded

Responsive configurable dashboards accessed with single sign-on to the application

Cost Effective

Achieve cost savings with pay-as-you-go pricing and no infrastructure to manage

Secure

Present the right data to the right authenticated user using the existing application identity pool

Solution at a Glance

Qalius deployed Amazon QuickSight to implement a presentation layer for business operations data residing in Amazon Aurora. ITC employees log into the operations portal they use every day and immediately see the status of their business.

Use Cases

- Data presentation layer for transactional data

- Cost-effective alternative to 3rd-party solutions

- Add business intelligence to existing applications

Solution

Qalius embedded Amazon QuickSight dashboards into custom application software using the JavaScript SDK.
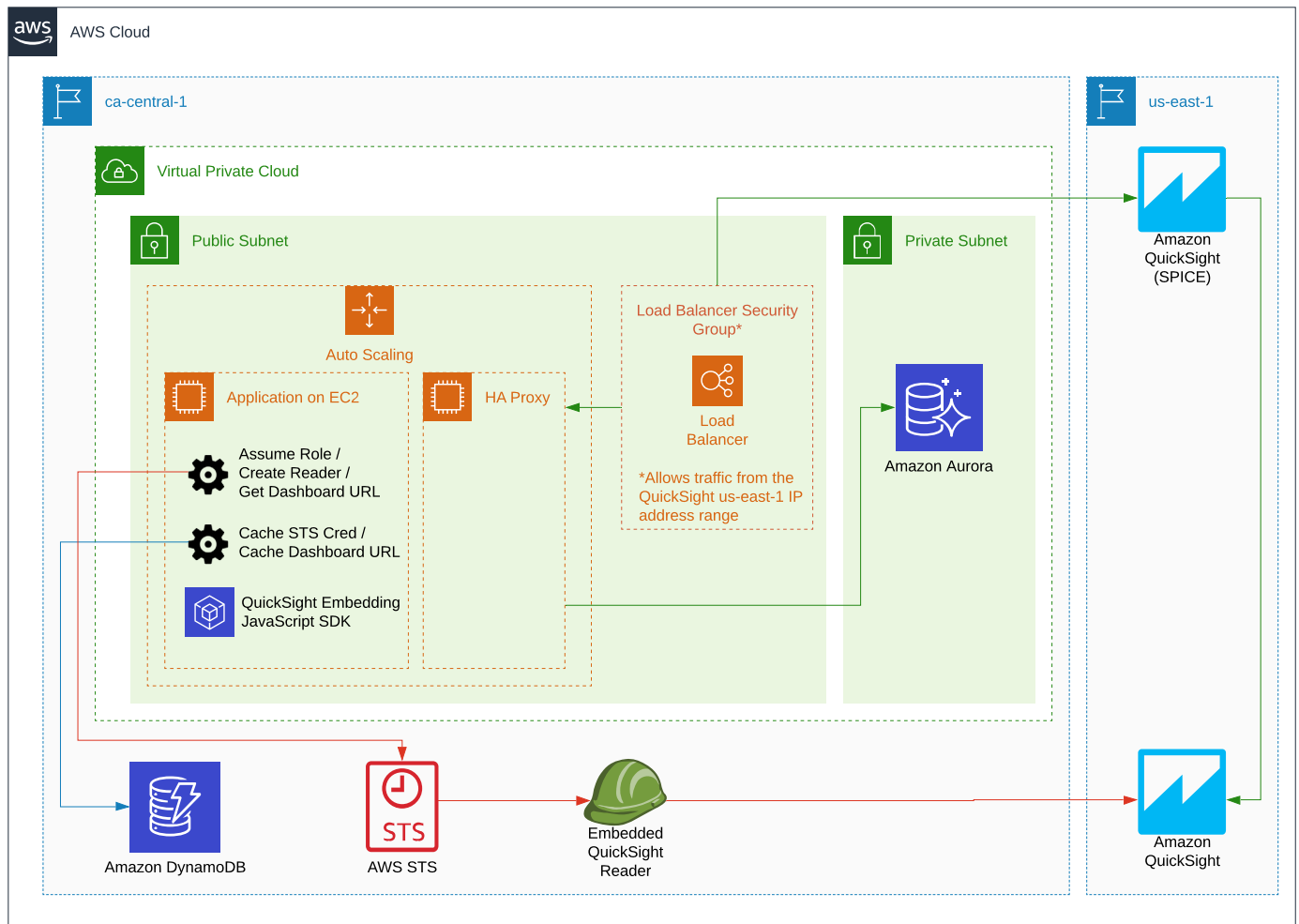
Embedded

The application assumes the IAM roles for QuickSight access according to the role of the application user

Responsive

Tokens and dashboard URLs are cached for up to 5 minutes in Amazon Dynamo DB for a responsive experience

Cross-Region

Access to the database in Canada is restricted to the IP address of Amazon QuickSight in Virginia

aws AWS Cloud

ca-central-1

Virtual Private Cloud

Public Subnet

Auto Scaling

Application on EC2

Assume Role / Create Reader / Get Dashboard URL

Cache STS Cred / Cache Dashboard URL

QuickSight Embedding JavaScript SDK

HA Proxy

Load Balancer Security Group*

Load Balancer

*Allows traffic from the QuickSight us-east-1 IP address range

Private Subnet

Amazon Aurora

us-east-1

Amazon QuickSight (SPICE)

Amazon DynamoDB

AWS STS

Embedded QuickSight Reader

Amazon QuickSight

"I run my business on Qalius software because they implement the changes I need as my business grows. Qalius acts like part of my team, and I won't use anybody else."

Ali Ebrahim, Chairman
ITC Grain International Inc.

aws partner network

Advanced
Consulting
Partner

Public Sector Partner
Solution Provider

At Qalius we are developers specializing in custom web applications designed for the AWS platform. AWS speeds up software development by providing a toolkit of platform services that offer best-in-class functionality and security.