Saviynt moves to Amazon Aurora and reduces cost of restoring databases by 25%

Case Study

Executive Summary

Saviynt migrated its Identity Governance and Administration (IGA), Cloud Security and Cloud Privileged Access Management platform to the MySQL engine on Amazon Aurora to lower operational costs, decrease manual touchpoints, and reduce latency to global customers.

The Challenge

As Saviynt's customer base has grown, the operational demands and costs to maintain working order of its solutions has grown as well. Saviynt's devSecOps team, made up of 10+ developers and engineers, is responsible for maintenance and upkeep of the AWS RDS (Relational Database as Service) for MYSQL databases on which their solutions run. Restoring databases from AWS RDS database snapshots for very large customers poses a significant challenge for the team, taking up to a few hours for complete recovery which impacts the company's uptime SLA.

The Solution

The team migrated the identity warehouse of its hyperconverged platform to Amazon Aurora where replication and snapshotting capabilities make database recovery faster and the fully managed services reduce the time and money the company spends on operational activities. The migration included making small architectural updates to the solution in order to enable the company to expand into the multi-region zones available through Amazon Aurora and improve performance for large global customers.

About Saviynt

Saviynt's third-generation IGA product, Identity 3.0, is a hyper-converged platform that brings together intelligent identity governance and management, application GRC, identity-centric cloud security, and cloud privileged access management (PAM). Saviynt enables organizations to leverage 'identity as the true perimeter' across a multi-cloud and hybrid IT environment and ensure appropriate access with its usage-driven identity intelligence and analytics. Saviynt's Identity 3.0 solution extends security for IaaS providers such as AWS, Azure, GCP, Alibaba Cloud, and collaboration or data storage platforms such as Office 365, SharePoint, Box, NetApp, and more.

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— Vibhuti Sinha, Chief Cloud Officer at Saviynt

> "Having…. very granular cloud security policies and standards, but also having a way to detect if there's a non-compliance or identify folks that get outside the guiderails we set… Saviynt is a key tool in our control framework that helps us do that."
>
> — Arnold Abernathy,
>   Deputy Chief Security
>   Officer for Toyota
>   Connected, North America

Results and Benefits

For Saviynt, migrating their platform to Amazon Aurora was more than just saving money and time spent on operational tasks. It was also a forward-looking, strategic choice that will allow them to take advantage of new features and capabilities as they come to Amazon Aurora.

Reduce downtime and cost of restoring databases by 25%

In the cybersecurity industry, prolonged downtime can lead to disaster. As part of Vibhuti Sinha's job as Chief Cloud Officer at Saviynt, he closely monitors how long it takes his team to restore/repair databases and reduces the downtime as much as possible. Over the years it has become increasingly more expensive and cumbersome. "When we started as a company, the data volumes were small," explained Sinha. "If there was an issue in a database, it wasn't a problem to set up a replication or bring up a copy. But as we've grown, the data has gotten huge. And the limitations of the underlying AWS RDS service has not helped much." To reduce the time and cost associated with restoring databases, Sinha migrated Saviynt's platform to Amazon Aurora. "By moving to Amazon Aurora, we've reduced the cost of restoring databases by 25% already," Sinha shared. "Our goal is to cut costs 50% by the end of the year which we think we can do on Amazon Aurora."

Decrease manual touchpoints using automated capabilities

Sinha's team oversees the databases that support about 250+ customers and nearly 1,500+ databases. "With such a large footprint, you inevitably have times when databases will require operational intervention such as taking snapshot and restoring data." Thanks to the advanced features available on Amazon Aurora, such as automatic snapshotting and replication, the team is already seeing a steep reduction in touchpoints.

Plan for multi-region availability and low latency experiences

Many of Saviynt's customers have a global presence with users all over the world. As those customers continue to expand, Saviynt wants to ensure they can support the same fast, high quality experience for end users regardless of their location. "Amazon Aurora supports fully functional database in all the regions. It offers multi-region architecture to support customers in spots where latency otherwise might be a big challenge," explained Sinha.

Learn more

Amazon Aurora is a MySQL and PostgreSQL-compatible relational database built for the cloud, that combines the performance and availability of traditional enterprise databases with the simplicity and cost-effectiveness of open source databases. Amazon Aurora is up to five times faster than standard MySQL databases and three times faster than standard PostgreSQL databases. It provides the security, availability, and reliability of commercial databases at 1/10th the cost.