



VMware IT Improves Application Integration with Migration to Dell Boomi

INDUSTRY

CLOUD COMPUTING AND
PLATFORM VIRTUALIZATION
SOFTWARE AND SERVICES

LOCATION

PALO ALTO, CALIFORNIA

KEY CHALLENGES

- Performance limitation for hosting cloud-to-cloud, cloud-to-on-premises, and on-premises-to-cloud application integration workflows
- Additional expense and/or infrastructure
- Deployment and maintenance required excessive time and upgrades that sometimes took months

SOLUTION

Dell Boomi's out-of-the-box connectors provided seamless migration for more than 70 applications. This resulted in improvements in staff productivity; all-new levels of flexibility and agility; and substantial savings in overall infrastructure, maintenance, and licensing costs.

VMware IT evaluated Dell Boomi as its integration platform to host cloud-to-cloud, cloud-to-on-premises, and on-premises-to-cloud application integrations and decided to migrate.

VMware provides cloud computing and platform virtualization software and services. It was the first commercially successful company to virtualize the x86 architecture. Today, VMware software powers the world's complex digital infrastructure. The company's various offerings provide a dynamic and efficient digital foundation to more than 500,000 customers globally, aided by an ecosystem of 75,000 partners.

The challenge

VMware IT employed an integration-platform-as-a-service (iPaaS) provider to host cloud-to-cloud, cloud-to-on-premises, and on-premises-to-cloud applications in the public cloud. Initially, the offering had a positive impact on the applications compared to traditional approaches. Due to various challenges with VMware's own infrastructure, compatibility issues, and costs, VMware IT decided to evaluate Dell Boomi.

The solution

After researching numerous alternatives for the fitness of VMware integration scenarios, VMware IT decided on Dell Boomi, an iPaaS solution that could reduce costs and offer operational flexibility right out of the box. Boomi provided seamless migration for more than 70 applications. Once deployed, VMware teams realized improvements in staff productivity and savings in overall infrastructure costs.

Limitations encountered

While the existing iPaaS platform provided a solution for integration scenarios that cut across cloud software-as-a-service (SaaS) systems, each integration application needed its own dedicated CPU and RAM resources. Adding a new application or scaling a mission-critical feature for any application required the purchase of additional resources. There were also connectivity issues with on-premises messaging services that could only be resolved by purchasing another feature in the existing iPaaS platform.

BUSINESS BENEFITS

- Easily connects various business applications, such as customer relationship management (CRM) and expense management, using built-in Boomi connectors
- Meets service-level agreements (SLAs) for business-critical applications (such as partner deals sync) due to Boomi's improved performance
- Simplifies the development of applications, even by business users, with an intuitive, configure-against-code GUI philosophy
- Restricts access to the platform and confidential data based on single sign-on (SSO) login
- Simplifies and accelerates all tasks via automation
- Enhances productivity and realizes cost savings daily
- Enables a flexible ecosystem with built-in agility and scalability

A better way with Boomi

Boomi's runtime engine (Atom) provides a unified solution for near-real-time application integration and batch-based data movements. Its advantages were evident from the start.

The Boomi Molecule features internal load balancing of workflows within the cluster. This also makes Boomi a candidate for migrating batch workflows. More than 200 connectors are available for both near-real-time and batch runs, and they operate on a single platform/infrastructure. This offers tremendous ease of support for DevOps teams, and provides out-of-box high availability and scalability support for state-of-the-art disaster recovery when real-time/batch integrations take place in multiple data centers. In addition, teams were easily able to integrate Boomi Package Manager APIs with existing DevOps tools running on the VMware vRealize® Code Stream™ platform to automate code deployment.

Automatic upgrades of the platform and runtime engine

A major feature in implementing Boomi was its automatic upgrade for the platform and runtime engines. There's automatic validation of the application integrations for platform/component upgrades, as well as real-time automatic updates for Molecule and individual Atom runtime engines. Also, detailed activity logs and the document tracking feature on the platform enabled better supportability. Taken as a whole, these features dramatically reduce the burden on IT, especially because workload integration is so integral with the global VMware ecosystem.

The decision to migrate

With the existing iPaaS solution, new application deployment and other infrastructure improvements/upgrades took several weeks or possibly months to implement, hindering VMware's ability to function as an agile worldwide operation.

Boomi offered the reverse—substantial time savings regardless of the operation in question—thanks to its myriad innovative tools. Boomi Suggest offers mapping suggestions based on source and target, eliminating time-consuming manual searches. Boomi Assure accelerates the submission of integration processes and data to Boomi support for testing against releases. IT personnel have access to a series of common integration components in the Boomi library, removing the need to source/learn new components.

Boomi's lightweight, dynamic runtime engine makes it easy for DevOps teams to test locally, further enhancing productivity. And by being able to immediately leverage newly released features (deployed by automatic product upgrades) and seamless app connectors, DevOps teams achieve faster development and accelerated time to market.

A new era of productivity and savings

VMware's migration to Dell Boomi went significantly faster than anticipated. All rules and systems were fully transitioned in record time. And the Boomi support team was with the VMware IT team for every step of the implementation, further reducing the migration time.

Major upgrades to infrastructure are now calculated in quarters (or less) rather than several months or a year. VMware IT continues to realize significant savings on an ongoing basis, primarily through the benefits of automation and licensing costs.

VMWARE FOOTPRINT

- VMware vRealize Code Stream
- VMware vRealize Log Insight™

Dell Boomi migration

Key highlights	<ul style="list-style-type: none"> • License cost saving • Aggressive timelines, with go-live in one quarter for more than 70 applications • All applications developed in Boomi from scratch • Minimal impact to consumers as same endpoints were maintained • Monitoring with vRealize Log Insight and EA • Integration with vRealize Code Stream 2.0 for automated deployment
Past	<ul style="list-style-type: none"> • An industry-leading iPaaS platform increased license costs • Performance issues—long execution times • Reliability issues for integrating with on-premises applications • Platform upgrades took months to implement
Present	<ul style="list-style-type: none"> • Real-time transactional • High volume batch mode • Publish-subscribe model • Webhooks • Guaranteed delivery channel • Confidential data transfer in secured mode
Benefits of Dell Boomi Platform	<ul style="list-style-type: none"> • Performance improvement • Real-time and batch capabilities in one tool • Infrastructure scaling • High availability and disaster recovery architecture • Ease of development • Document tracking • More intuitive admin and support interfaces

Architecture

