

## Event-Driven Architecture for Customer Engagement Automation and Secure Multi-Cloud Data Exchange in Salesforce.

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### Abstract

*Event-driven architecture constitutes a software design paradigm through which systems establish communication channels and generate responses to modifications via event mechanisms, rather than depending upon direct synchronous request protocols such as Application Programming Interfaces. This architectural pattern possesses the capability to manage customer interaction activities at real-time scales and substantial operational volumes through the delivery of personalized, temporally appropriate, and contextually relevant engagements spanning multiple communication channels, including electronic mail, short message services, push notification systems, conversational interfaces, and social media platforms. Through decoupling of operational processes and enabling instantaneous communication pathways connecting Marketing Cloud, Sales Cloud, Service Cloud and other external cloud platforms like MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform, organizations acquire the capacity to construct scalable workflow systems that generate automatic responses to customer behavioral actions, such as product viewing activities or shopping cart abandonment scenarios. The architectural framework produces measurable improvements in customer responsiveness metrics, diminishes requirements for manual follow-up procedures, and guarantees seamless coordination among organizational teams while avoiding the introduction of rigid coupling relationships between system components. When multiple systems, particularly cloud-based infrastructures, exchange information through Application Programming Interface channels involving sensitive customer information, payment transaction details, or critical business process data, securing these interfaces becomes paramount for protecting information assets, guaranteeing that exclusively authorized users and systems maintain access privileges, and preventing unauthorized exploitation. Secure multi-cloud exchange architectures can be designed employing OAuth 2.0 authentication frameworks, encryption protocol implementations, and event-based notification mechanisms while maintaining compliance with privacy regulatory frameworks such as the General Data Protection Regulation or the Health Insurance Portability and Accountability Act.*

Keywords: Event Driven Architecture, Customer Engagement Automation, Multi Cloud Data Exchange, Salesforce Integration, Secure API Communication

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### 1. Introduction

Event-driven architecture serves as the strategic foundation for organizations seeking to establish seamless engagement experiences while simultaneously

enabling secure, scalable, and compliant information flows across heterogeneous cloud ecosystems [1]. In contemporary hyperconnected digital economies, enterprises function within environments demanding that

customer engagement operations maintain characteristics of seamlessness, immediacy, and personalization across all interaction touchpoints. Traditional request-response architectural models frequently generate operational silos, temporal delays, and inefficiencies when attempting to provision contextually appropriate experiences spanning multiple communication channels [2]. To address these architectural limitations, Event Driven Architecture has materialized as a foundational paradigm enabling systems to generate instantaneous reactions to business events, thereby guaranteeing responsiveness, scalability, and operational agility within complex enterprise environments.

Concurrently, organizations demonstrate increasing dependence upon multi-cloud strategies designed to distribute computational workloads across Salesforce Cloud platforms, including Sales Cloud, Service Cloud, Marketing Cloud, Commerce Cloud, and other external cloud platforms like MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform. This diversification strategy simultaneously creates opportunities and introduces complications regarding secure information exchange protocols [1]. An event-driven architectural model furnishes a standardized mechanism through which organizations can securely propagate information assets and contextual metadata across cloud boundaries, guaranteeing consistency maintenance, regulatory compliance adherence, and real-time synchronization capabilities without introducing rigid coupling dependencies between distributed system components.

The objective of this initiative centers upon leveraging Event Driven Architecture within Salesforce ecosystems to facilitate real-time, automated, and personalized customer engagement operations, while simultaneously guaranteeing secure and efficient information exchange across multi-cloud operational environments including external platforms such as MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform [2]. Through decoupling system components via event streaming mechanisms, organizations obtain the capability to respond instantaneously to customer behavioral actions and business trigger events, enhance operational agility through automated workflow implementations, maintain information integrity and compliance requirements when exchanging data across Salesforce Cloud platforms and third-party infrastructure providers, and strengthen security postures alongside governance frameworks for sensitive customer information assets. This architectural framework encompasses implementation of Salesforce

Platform Events, Change Data Capture mechanisms, and Publisher Subscriber Application Programming Interfaces for real-time automation capabilities, orchestration of customer journey pathways across Sales, Service, Marketing, Commerce Cloud platforms and external systems, and integration of artificial intelligence alongside analytics capabilities to personalize engagement activities and improve decision-making processes [3][4].

Contemporary industry metrics reveal that approximately seventy-two percent of global business entities currently employ Event Driven Architecture in various operational capacities, demonstrating widespread adoption momentum, though merely thirteen percent have achieved comprehensive maturity levels where event-driven models receive broad application across entire organizational structures [11]. Seventy-one percent of organizations indicate that benefits derived from Event Driven Architecture adoption outweigh or minimally balance associated implementation costs, establishing positive return on investment perceptions among early adopters. Regarding cloud security considerations within multi-cloud environments, approximately eighty percent of companies experienced cloud security breach incidents within recent annual periods, with thirty-nine percent of businesses encountering data breach events in cloud environments during the past year, representing an increase from thirty-five percent in prior periods [10]. These statistics underscore escalating threat landscapes. Furthermore, seventy-five percent of businesses report that more than forty percent of their cloud-resident data possesses sensitive classification status, yet only forty-five percent of that sensitive information receives encryption protection, revealing substantial gaps in protection measures applied to sensitive data within multi-cloud operational settings [10]. As seventy-two percent of organizations currently utilize multiple Infrastructure as a Service providers compared to fifty-seven percent in previous measurement periods, multi-cloud adoption trajectories continue increasing, thereby introducing additional security and governance complexities requiring architectural solutions capable of addressing these emerging challenges [11].

## **2. Historical Evolution and Conceptual Foundations**

Event-driven architecture constitutes a software design paradigm through which systems establish communication channels and generate responses to

events, specifically state changes, actions, or trigger conditions occurring in real time, rather than relying exclusively upon synchronous request-response models that characterize traditional integration patterns [1]. Within Salesforce operational contexts, Event Driven Architecture enables customer-centric automation capabilities by permitting workflows, artificial intelligence components, and integration mechanisms to be triggered by events such as lead conversion activities, case escalation incidents, or marketing campaign interaction signals [2]. This architectural pattern additionally facilitates secure data exchange across multiple cloud environments, encompassing Salesforce Cloud platforms combined with external infrastructure providers, including MuleSoft, Tableau, Amazon Web Services, Microsoft Azure, and Google Cloud Platform, through propagation of events via decoupled, scalable distribution mechanisms that eliminate point-to-point dependencies.

The evolution of enterprise integration architectures traces a progressive trajectory beginning with traditional information technology infrastructures prevalent during the nineteen nineties through early two thousand, wherein business applications maintained largely monolithic characteristics and depended upon request-response protocols, including Application Programming Interfaces and batch processing methodologies [1]. This architectural paradigm generated latency complications, integration silos, and insufficient adaptability to dynamic customer demand patterns that increasingly characterized digital commerce environments. The subsequent rise of Service Oriented Architecture and Enterprise Service Bus technologies during the two thousand represented attempts to improve system interoperability, yet these solutions remained fundamentally synchronous in nature and sustained tight coupling characteristics that limited scalability and flexibility [2].

The emergence of event-driven models during the twenty ten decade coincided with escalating requirements for real-time digital experiences, prompting widespread adoption of streaming technologies, including Apache Kafka, RabbitMQ, and Java Message Service implementations across enterprise environments. Salesforce introduced Platform Events and Change Data Capture capabilities during this period to support real-time event propagation requirements within cloud-based customer relationship management ecosystems [3][8]. These mechanisms enabled organizations to publish and subscribe to business events occurring within Salesforce

environments, facilitating immediate notification of external systems regarding data modifications, state transitions, or business process milestones without requiring continuous polling or batch synchronization operations.

The contemporary cloud and multi-cloud era, spanning from two thousand fifteen to the present operational contexts, has witnessed enterprises adopting multi-cloud distribution strategies designed to optimize agility and avoid vendor lock-in scenarios [1]. This diversification trend generated requirements for secure, standardized, event-based integration capabilities spanning cloud boundaries including Salesforce platforms, MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform while simultaneously maintaining regulatory compliance and governance frameworks. Modern event-driven architectures within Salesforce contexts leverage these historical developments to provide organizations with the capability to construct resilient, loosely coupled integration patterns that respond dynamically to business events, maintain operational continuity across distributed cloud environments, and support scalability requirements matching contemporary enterprise operational demands [4].

### **3. Technical Components and Architectural Framework**

Within Salesforce operational environments, Event Driven Architecture receives enablement through several core technical components that collectively establish foundations for real-time event propagation and consumption patterns [2]. Platform Events constitute custom event definitions facilitating real-time communication between disparate system components, enabling organizations to publish business events occurring within Salesforce environments and allowing external systems including MuleSoft, Tableau, AWS, Azure, and other cloud platforms or internal processes to subscribe to these event streams for immediate notification purposes [8]. Change Data Capture mechanisms publish data modification events, including insert, update, delete, and undelete operations occurring on Salesforce objects, providing near real-time notification capabilities to subscribing systems without requiring periodic polling operations that consume computational resources unnecessarily [3]. The Publisher Subscriber Application Programming Interface delivers scalable, high-volume event distribution capabilities with fine-grained filtering mechanisms,

enabling selective event consumption based upon specific criteria or business rule definitions [4]. The Event Bus component functions as a decoupling mechanism between event producers and consumers, guaranteeing reliable delivery characteristics while permitting independent scaling of publishing and subscribing system components.

Integration patterns implemented through Event Driven Architecture within Salesforce contexts encompass multiple strategic approaches addressing diverse operational requirements [1]. The Event Notification Pattern facilitates notification of external systems including MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform regarding changes or significant business occurrences, enabling downstream processes to react appropriately without maintaining continuous connections to source systems. Data Streaming Patterns enable continuous flow of customer information or transactional data toward analytics engines, data warehouses, or machine learning platforms requiring real time input streams for processing operations [3]. Event Carried State Transfer patterns pass comprehensive state information as integral components of event payloads, enabling consuming systems to maintain necessary context without requiring subsequent retrieval calls to source systems, thereby reducing latency and coupling dependencies.

Security and governance frameworks supporting Event Driven Architecture implementations incorporate multiple protective layers addressing authentication, authorization, encryption, and audit trail requirements [9]. Salesforce Shield provides encryption capabilities for data at rest, event monitoring functionality for security analysis, and comprehensive audit trail mechanisms tracking event publication and consumption activities across distributed architectures. Named Credentials furnish secure, centralized repositories for storing authentication configuration settings, eliminating requirements for embedding sensitive credentials within integration code or configuration files [5]. Connected Apps enable external applications to integrate with Salesforce environments using protocols including OAuth 2.0, Security Assertion Markup Language, or OpenID Connect, providing standardized authentication and authorization frameworks [6][7]. Transport Layer Security protocols combined with OAuth mechanisms guarantee secure multi cloud event propagation, protecting sensitive information during transmission across network boundaries while maintaining compliance with regulatory frameworks, including General Data Protection Regulation and Health Insurance Portability and Accountability Act requirements [9].

Component	Functionality
<b>Platform Events</b>	Custom event definitions enabling real-time communication between distributed system components within Salesforce ecosystems
<b>Change Data Capture</b>	Automated publication of data modification events, including insert, update, delete, and undelete operations on Salesforce objects
<b>Publisher Subscriber API</b>	Scalable high-volume event distribution mechanism supporting fine-grained filtering capabilities for selective consumption
<b>Event Bus</b>	Decoupling infrastructure, separating event producers from consumers, while guaranteeing reliable delivery characteristics
<b>Replay ID Mechanism</b>	Durable subscription support enabling event replay from specific points for recovery and reliability purposes
<b>Event Schema Design</b>	Structured payload definitions optimizing event size and content for efficient transmission and processing

Table 1: Event Driven Architecture Core Components in Salesforce [2][3][8]

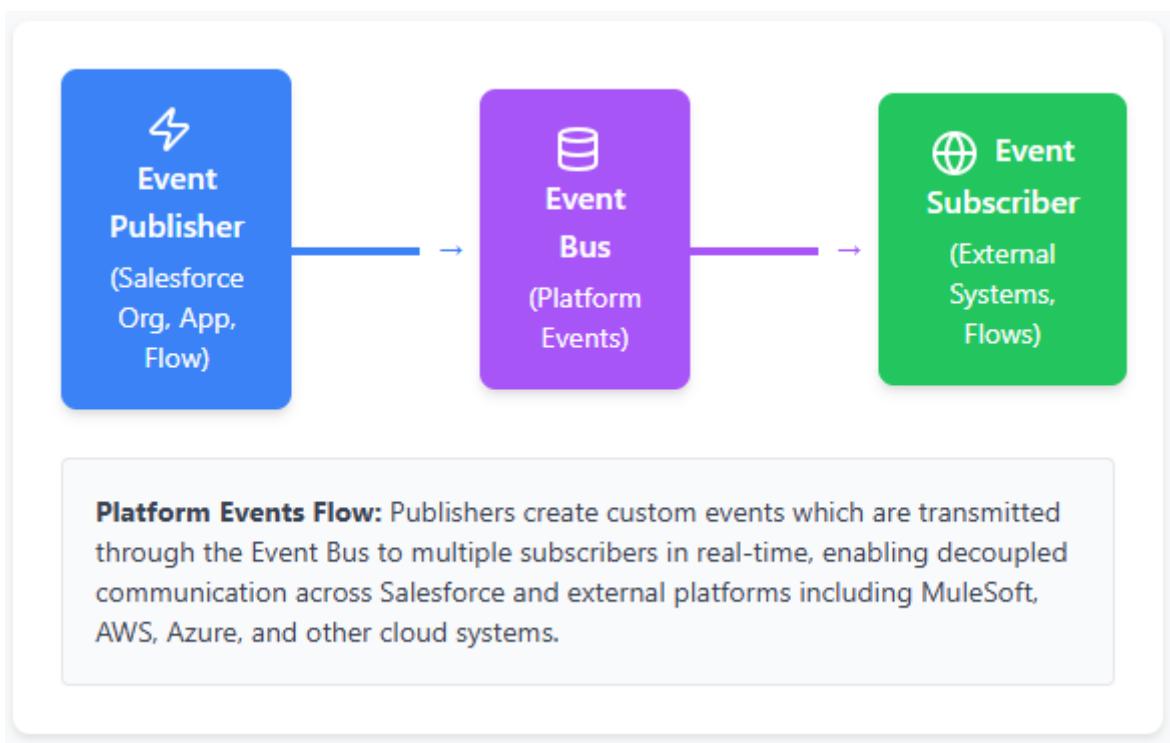


Figure 1: Platform Events Architecture in Salesforce

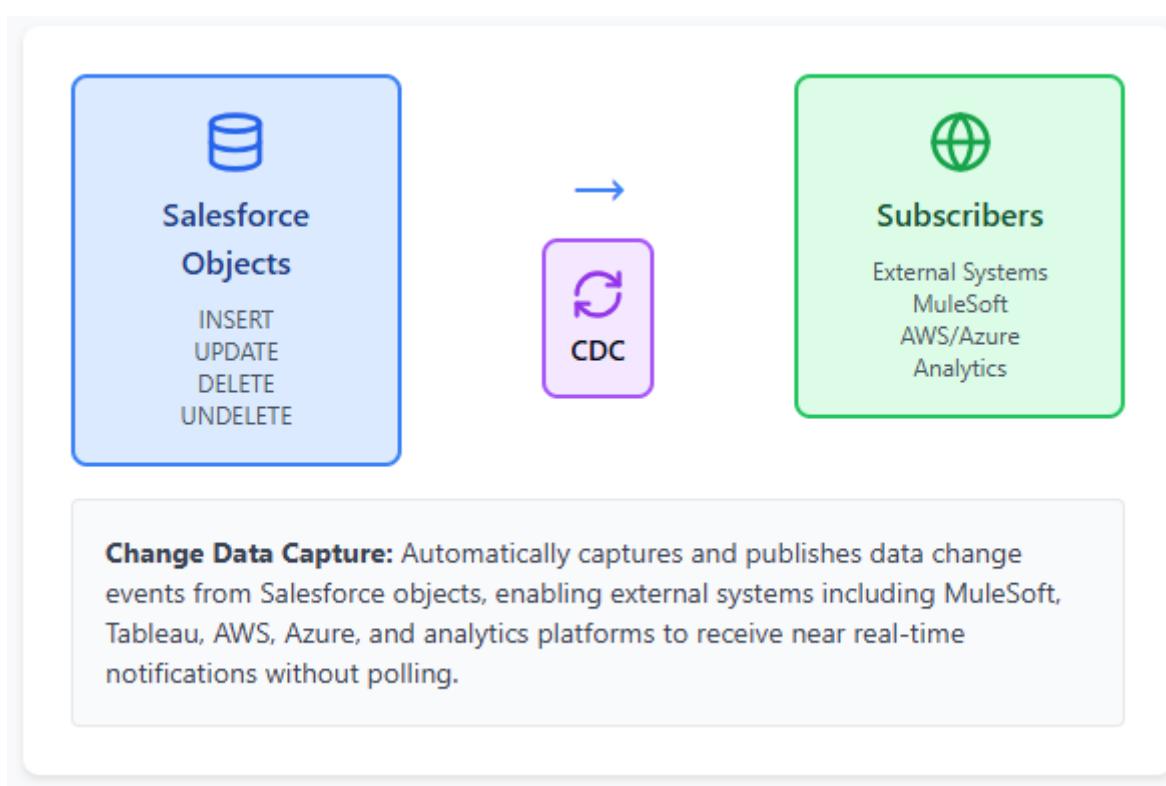


Figure 2: Change Data Capture Mechanism

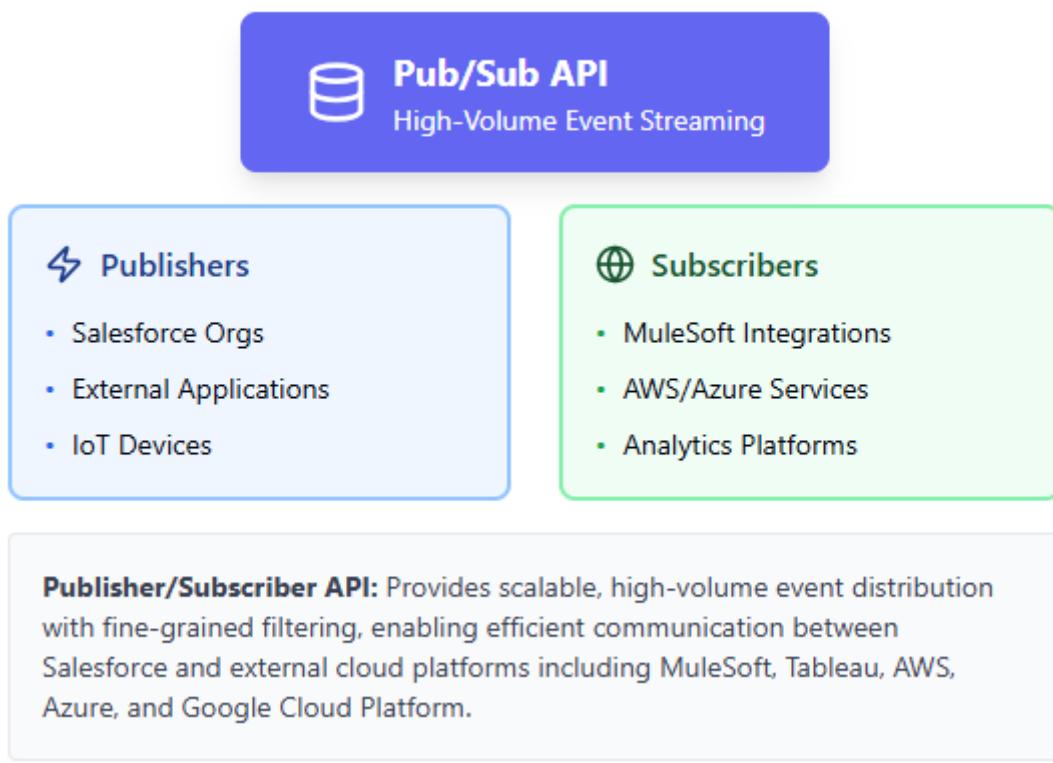


Figure 3: Publisher/Subscriber API Architecture

#### **4. Implementation Strategies for Customer Engagement Automation**

Implementation of Event Driven Architecture for customer engagement automation within Salesforce ecosystems enables organizations to orchestrate sophisticated customer journey pathways spanning Sales Cloud, Service Cloud, Marketing Cloud, Commerce Cloud and external platforms including MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform through automated, event-triggered workflows responding instantaneously to customer behavioral signals [1][4]. When customers execute actions such as product viewing activities, shopping cart abandonment scenarios, service case submissions, or marketing email interactions, corresponding events propagate through the Event Bus infrastructure, triggering automated response sequences including personalized communication deliveries, internal task assignments, or predictive analytics processing operations. This architectural pattern eliminates manual coordination requirements between organizational teams while guaranteeing consistent, timely responses to customer activities regardless of originating channel or interaction touchpoint [3].

Contemporary implementations synthesize artificial intelligence alongside analytics functionalities within event-driven frameworks to elevate personalization characteristics and accelerate decision-making processes throughout customer engagement operations [4]. Machine learning algorithms process real-time event streams to produce predictive assessments concerning customer preference patterns, purchasing likelihood indicators, or service requirement forecasts, thereby enabling proactive engagement methodologies that recognize customer necessities before explicit articulation. To illustrate this capability, consider scenarios where customers complete purchase transactions through Commerce Cloud platforms, whereupon resulting events concurrently initiate immediate information updates within Service Cloud environments, equipping support personnel with comprehensive order context, activate personalized promotional campaign sequences through Marketing Cloud based upon historical purchase pattern evaluation, synchronize data with external analytics platforms such as Tableau, AWS, or Azure for advanced insights generation, and generate instantaneous shipping status communications delivered to customer mobile devices via push notification infrastructure. This coordinated response occurs automatically without human

intervention, demonstrating operational efficiency gains achievable through event-driven automation patterns.

Statistical evidence indicates that ninety-one percent of organizations recognize automation technology requirements, yet merely twenty-three percent have implemented automation capabilities widely across operational domains, revealing substantial gaps between recognized needs and actual deployment levels [11]. Furthermore, eighty-six percent of consumers indicate that experience quality with brands matters equally to product characteristics, establishing customer engagement as a central competitive differentiator within contemporary markets. In service organizations employing artificial intelligence capabilities, ninety-three percent of service professionals report that automation technologies generate time savings, reducing manual effort requirements and enabling focus upon higher value activities requiring human judgment and expertise. These metrics collectively demonstrate that event-driven customer engagement automation frameworks address critical business requirements while simultaneously delivering measurable operational improvements across multiple performance dimensions.

#### **5. Secure Multi-Cloud Data Exchange Mechanisms**

Secure multi-cloud data exchange architectures within Salesforce environments necessitate comprehensive security frameworks addressing authentication, authorization, encryption, and compliance requirements across distributed cloud boundaries including MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform [5][6][7]. OAuth 2.0 authentication protocols provide standardized mechanisms for establishing trusted connections between Salesforce platforms and external cloud infrastructure providers, enabling secure token-based authentication without exposing sensitive credential information during transmission processes [5]. The OAuth 2.0 Token Exchange Flow specifically facilitates delegation scenarios where systems exchange tokens representing authenticated identities, permitting seamless authorization across organizational boundaries while maintaining granular access control policies [6]. Various OAuth authorization flows, including client credentials flow, enable server-to-server integration patterns without requiring user intervention, supporting automated data synchronization operations between Salesforce and external analytics platforms such as MuleSoft, Tableau, Amazon Web Services, Microsoft Azure, or Google Cloud Platform environments [7].

Within healthcare delivery contexts, organizations employ Salesforce Health Cloud combined with Amazon Web Services analytics infrastructure to process patient information securely while maintaining Health Insurance Portability and Accountability Act compliance requirements [9]. When patient record updates occur within Salesforce Health Cloud environments, Change Data Capture mechanisms generate secure event notifications transmitted to Amazon Web Services platforms for predictive artificial intelligence processing operations, while comprehensive audit trail logging guarantees compliance verification capabilities. Salesforce Connect, combined with external object implementations, enables real-time access to data residing in external systems including MuleSoft,

Tableau, AWS, Azure, and other cloud platforms without requiring complete replication, thereby reducing data duplication risks and associated security exposure surfaces [9]. Named credential systems centralize authentication configuration management, eliminating requirements for distributing sensitive credential information across multiple integration points and simplifying credential rotation procedures necessary for maintaining security postures. Transport Layer Security encryption protocols protect event payloads during transmission across network boundaries, guaranteeing confidentiality and integrity characteristics for sensitive customer information, payment transaction details, and proprietary business process data exchanged between cloud platforms [9] [10].

### OAuth 2.0 Authentication Flow

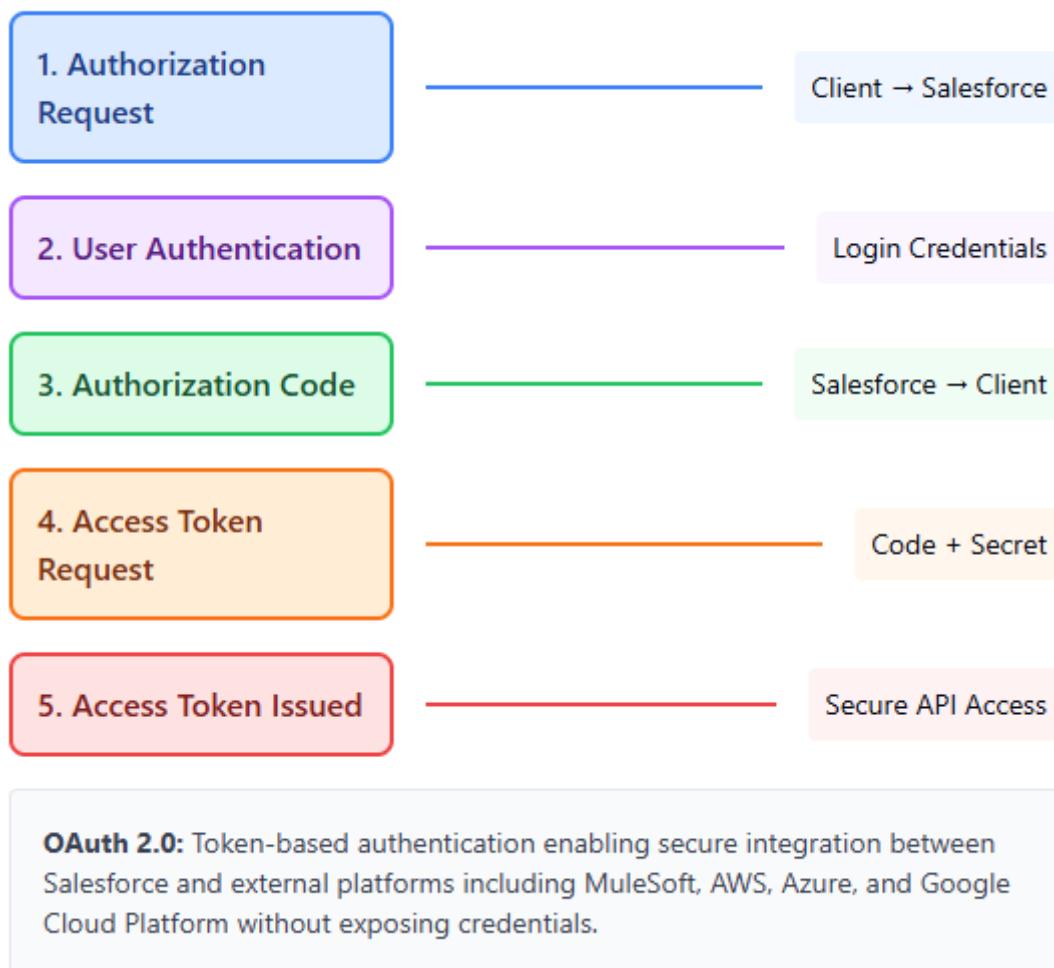


Figure 4: OAuth 2.0 Authentication Flow in Salesforce

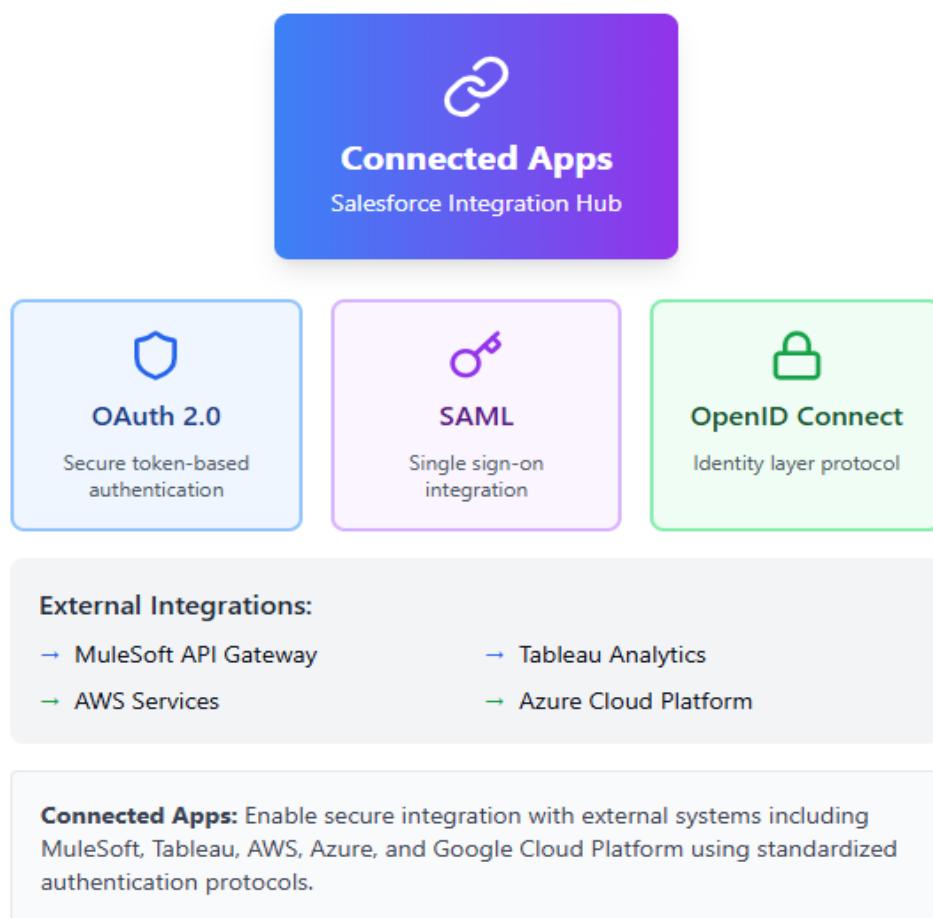


Figure 5: Connected Apps Integration Framework

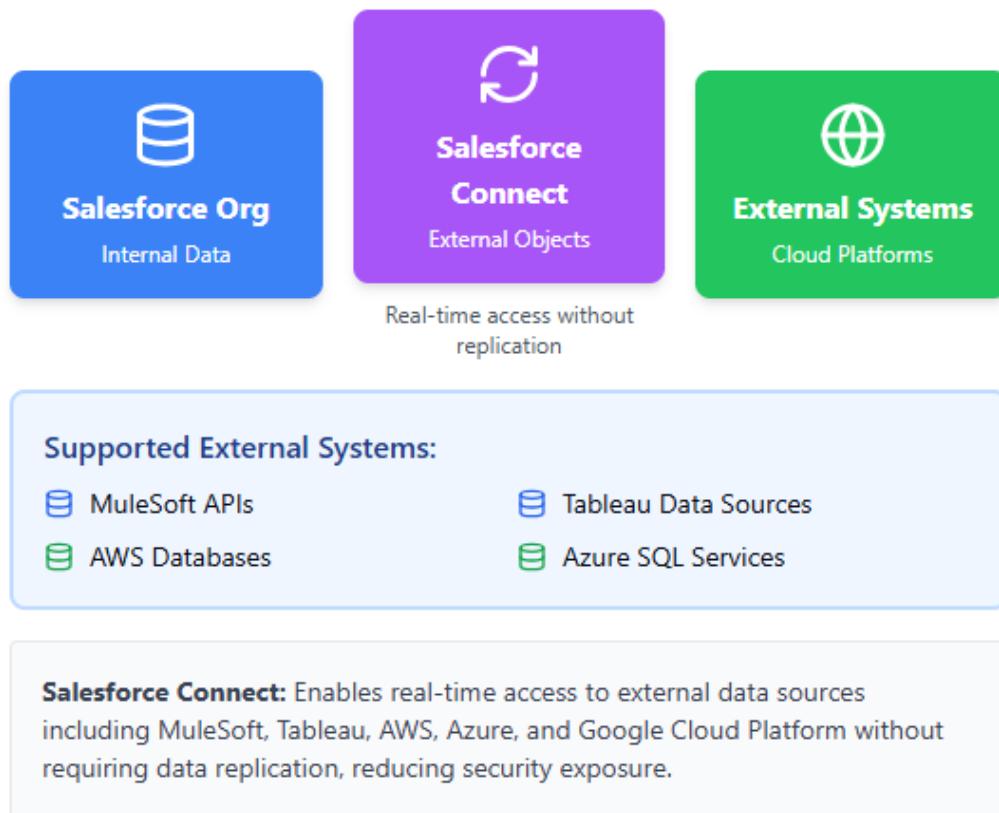


Figure 6: Salesforce Connect Architecture

### Transport Layer Security (TLS) Encryption

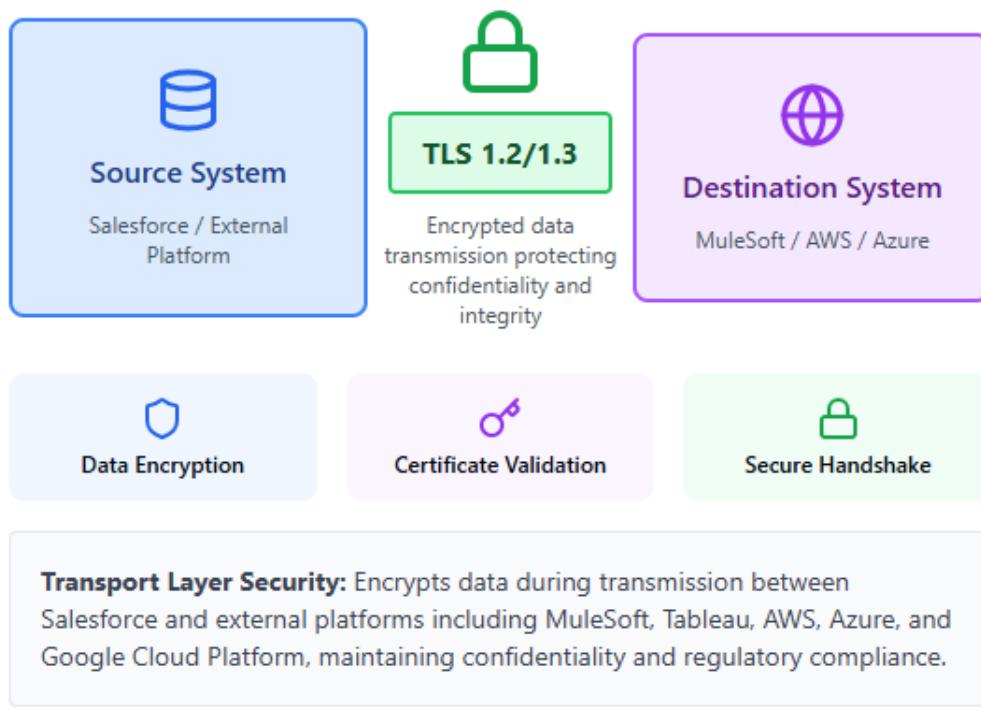


Figure 7: Transport Layer Security Protocol

SECURITY COMPONENT	PROTECTION MECHANISM
OAuth 2.0 Authentication	Token-based authentication protocol enabling secure identity verification across cloud boundaries without credential exposure
Named Credentials	Centralized authentication configuration storage eliminates distributed credential management and simplifies rotation procedures
Connected Apps	Integration framework supporting OAuth, SAML, and OpenID Connect protocols for standardized external system authentication
Salesforce Shield	Comprehensive security suite providing encryption at rest, event monitoring capabilities, and audit trail generation
Transport Layer Security	Encryption protocol protecting data during transmission across network boundaries, maintaining confidentiality and integrity
Salesforce Connect	External object framework enabling real-time access to external data sources without requiring complete replication

Table 2: Multi Cloud Security Framework Components [5][6][7][9]

## 6. Broader Implications and Future Trajectories

Event-driven architectures diminish unnecessary data processing operations and Application Programming Interface polling activities through a transition toward on-demand, event-triggered operational patterns [11]. This architectural shift produces reduced energy consumption characteristics and minimized computational resource waste, thereby supporting environmentally sustainable information technology infrastructure implementations. Economically, event-driven paradigms enable accelerated, more efficient customer engagement operations, reducing integration expense burdens and improving return on investment metrics through automation capabilities and real-time responsiveness characteristics. From social perspectives, these architectures empower customers through personalized, context-aware interaction experiences, strengthening trust relationships, satisfaction levels, and brand loyalty indicators. Secure multi-cloud data exchange frameworks additionally promote digital equity and data sovereignty principles, permitting

organizations across diverse geographic regions to collaborate effectively without compromising regulatory compliance obligations or privacy protection standards [10].

As digital ecosystems continue maturation trajectories, real-time data orchestration across Salesforce, MuleSoft, Tableau, AWS, Azure, Google Cloud Platform, and other external cloud platforms will establish itself as the default operational mode for enterprise integration activities. The convergence of artificial intelligence capabilities, predictive analytics methodologies, and event-driven system architectures will enable organizations to anticipate customer requirements prior to explicit manifestation, facilitating proactive rather than reactive engagement models [11]. Growing privacy mandate requirements will necessitate federated, encrypted, and policy-aware event network implementations, guaranteeing responsible information sharing practices across organizational and jurisdictional boundaries. Multi-cloud interoperability spanning Salesforce ecosystems and external platforms including

MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform, combined with minimal latency event streaming capabilities, will establish foundational infrastructure supporting subsequent generations of intelligent, sustainable, and resilient enterprise architectural frameworks. Organizations must adopt event-driven thinking as a strategic capability rather than merely a technical upgrade, with Salesforce professionals and architects championing secure, scalable, and ethical event frameworks that respect user data while provisioning intelligent automation. The transition toward event-driven multi-cloud ecosystems transcends optional considerations, representing foundational requirements for organizations pursuing readiness within rapidly evolving digital landscapes [1][11].

## 7. Conclusion

Event-driven architecture constitutes a fundamental transformation in organizational utilization of Salesforce platforms for customer engagement coordination and information management operations. Through transitioning from static request-driven infrastructures toward dynamic event-oriented interaction frameworks, enterprises obtain the capability to provision personalized experiences, accelerated automation processes, and instantaneous responsiveness spanning multiple cloud environments including Salesforce, MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform. When this architectural model combines with frameworks governing secure information movement across cloud boundaries, organizations achieve strengthened stakeholder confidence, sustained adherence to regulatory requirements, and maintained operational continuity, all while improving system performance metrics and capacity for growth.

These benefits transcend purely technical domains, as the methodology reinforces coherence between strategic business priorities and transformation efforts within digital spheres, fostering environmentally responsible practices, adaptive organizational capabilities, and enhanced innovation potential. As enterprises progressively depend upon information-driven decision frameworks, event architectures furnish foundational infrastructure for intelligent ecosystems possessing learning capabilities, adaptive behaviors, and real-time action generation. The convergence of artificial intelligence, predictive analytics, and event-driven infrastructures enables organizations to anticipate

customer requirements before explicit manifestation occurs. Growing privacy mandate requirements will necessitate federated, encrypted, and policy-aware event network implementations, guaranteeing responsible information sharing practices. Multi-cloud interoperability across Salesforce and external platforms including MuleSoft, Tableau, AWS, Azure, and Google Cloud Platform, combined with minimal latency event streaming capabilities, will establish foundational support for subsequent generations of intelligent, sustainable, and resilient enterprise architectural frameworks. Ultimately, adopting event-driven secure multi-cloud architectural frameworks within Salesforce environments transcends mere technological evolution, representing instead a strategic imperative for organizations pursuing sustained competitive advantage within rapidly transforming digital landscapes.

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