

Phase 7: Integration & External Access

This phase focused on integrating Salesforce with external financial systems to enable real-time fraud checks and alerts. Core work included configuring Named Credentials, making REST callouts, publishing Platform Events, and enabling Change Data Capture for transaction updates.

1. Named Credentials – Bank API Credential

- Created a Named Credential called **Bank API Credential**.
- Configured URL: <https://fraudapi.mybank.com>.
- Authentication set as required by external system (Password Authentication / OAuth).
- Used in Apex callouts to securely connect with the Bank Fraud Detection API.

SETUP > NAMED CREDENTIALS

Bank API Credential

EditDelete

Label	Name
Bank API Credential	BankAPI_Credentials
URL	
https://fraudapi.bank.com	
Enabled for Callouts	
<input checked="" type="checkbox"/>	

Authentication

External Credential
Bank API External Credential
Client Certificate

Callout Options

Generate Authorization Header ⓘ
<input checked="" type="checkbox"/>
Allow Formulas in HTTP Header ⓘ
<input type="checkbox"/>
Allow Formulas in HTTP Body ⓘ
<input type="checkbox"/>

2. External Services

- Registered external API schema in **External Services**.
- Salesforce auto-generated invocable actions to be used in Flows for fraud verification.

The screenshot shows the Salesforce Setup interface for a Named Credential. At the top, there is a breadcrumb trail: "SETUP > NAMED CREDENTIALS". Below this, the title "Bank API External Credential" is displayed, accompanied by a shield icon. To the right of the title are "Edit" and "Delete" buttons. The main content area is divided into two columns. The left column contains the "Label" field with the value "Bank API External Credential". The right column contains the "Name" field with the value "BankAPI_External_Cred". Below these fields is the "Authentication Protocol" section, which shows "Basic Authentication". A "Managed Package Access" section is also visible. At the bottom, there is a "Created By Namespace" field with a help icon.

Label	Name
Bank API External Credential	BankAPI_External_Cred

Authentication Protocol

Basic Authentication

Managed Package Access

Created By Namespace ⓘ

3. REST Callouts – FraudCheckService

- Developed an Apex class **FraudCheckService**.
- Sent transaction details (**Id**, **Amount__c**, **Account__c**) to the Bank Fraud Detection API.
- Received fraud **status** and **risk score** in response.
- Updated fields **Status** and **Risk_Score__c** on **Transaction__c**.

4. Triggered Callouts

- Created a trigger on **Transaction__c** (after insert).
- Collected new transaction IDs and passed them to **FraudCheckService**.
- Fraud verification ran automatically after transaction creation.


5. Platform Events – Suspicious_Transaction__e

- Created Platform Event **Suspicious_Transaction__e** with fields:
 - TransactionId__c
 - Account__c
 - Risk_Score__c
 - Status__c
 - Reason__c
- Developed Apex class **FraudEventPublisher** to publish an event if risk score ≥ 80 .
- External systems subscribed to the event channel for real-time alerts.

Custom Fields & Relationships New						
Action	Field Label	API Name	Data Type	Indexed	Controlling Field	Modified By
Edit Del	Account	Account__c	Text(10)			Nishant Deshmukh, 9/23/2025, 10:09 AM
Edit Del	Reason	Reason__c	Text(100)			Nishant Deshmukh, 9/23/2025, 10:11 AM
Edit Del	Risk Score	Risk_Score__c	Number(3, 0)			Nishant Deshmukh, 9/23/2025, 10:10 AM
Edit Del	Status	Status__c	Text(10)			Nishant Deshmukh, 9/23/2025, 10:10 AM
Edit Del	Transaction ID	Transaction_ID__c	Text(5)			Nishant Deshmukh, 9/23/2025, 10:08 AM

6. Change Data Capture (CDC)

- Enabled CDC for **Transaction__c** object in Setup.
- Configured external systems to subscribe to **/data/Transaction__ChangeEvent**.
- Provided real-time notifications whenever transactions were created, updated, deleted, or undeleted.



SETUP

Change Data Capture

Select the entities that generate change event notifications on the default standard channel. Change Data Capture sends notifications for created, updated, deleted, and undeleted records. All custom objects and a subset of standard objects are supported.

Available Entities

Selected Entities

Transaction (Transaction__c)

7. Salesforce Connect

- Configured external data source using OData.
 - Synced external objects into Salesforce for reference if transaction data is stored in external systems.
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10. Remote Site Settings

- Created Remote Site Setting named **BankFraudAPI**.
- Added URL <https://fraudapi.mybank.com>.
- Allowed Salesforce to make API callouts to the bank's fraud detection service.

Remote Site Details

[Help for this Page](#) 

Remote Site Detail		Edit	Delete	Clone
Remote Site Name	BankFraudAPI	Modified By Nishant Deshmukh 9/23/2025, 10:52 AM		
Remote Site URL	https://api.bankfraudcheck.com			
Disable Protocol Security	<input type="checkbox"/>			
Description	Bank Fraud Detection API endpoint for callouts			
Active	<input checked="" type="checkbox"/>			
Created By	Nishant Deshmukh 9/23/2025, 10:52 AM			
		Edit	Delete	Clone