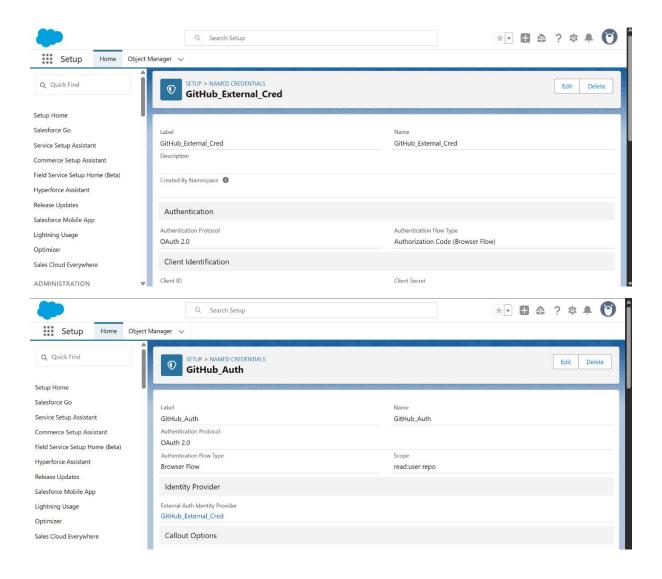
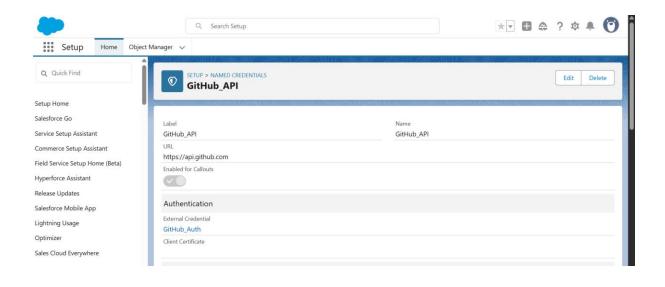
Phase 7 – Integration & External Access

1. Named Credentials

Use Case: Store authentication details securely for external systems to simplify callouts. Explanation: Named Credentials let you define the endpoint URL and authentication in one place, so Apex or Flows can make callouts without storing credentials in code. Steps:

- 1. Setup → Named Credentials → New Named Credential
- 2. Enter Name, URL of external service
- 3. Choose Authentication (e.g., Password, OAuth)
- 4. Save and use in Apex or External Services
 Screenshot Placeholder: Named Credential setup page.





2. External Services

Use Case: Integrate ShipmentTrack with external APIs (e.g., courier tracking system). Explanation: External Services allow Salesforce to invoke REST endpoints declaratively via Flow. Steps:

- 1. Setup → External Services → New External Service
- 2. Provide Named Credential

3. Register service → Actions become available in Flow or Process Builder *- • • • • • Setup Home Object Manager V Q external ser Add an External Service **External Services** ∨ Integrations Active Operations External Services 0 used of 1,250 0 used of 1,250 Didn't find what you're looking for? Try using Global Search. 1 Items · Sorted by External Service Name · Last refreshed a few seconds ago D Active Operations External Service Name ↑ **Total Operations Active Objects Total Objects** Credentials GitHubAPIService

3. Web Services (REST/SOAP)

Use Case: Enable external systems to query or update ShipmentTrack data. Explanation: Expose Apex classes as REST or SOAP web services.

Example (REST Apex):@RestResource(urlMapping='/ShipmentAPI/*')

```
global with sharing class ShipmentRestService {
    @HttpGet
    global static Shipment_c getShipment(Id shipmentId){
        return [SELECT Id, Name, Status_c FROM Shipment_c WHERE Id = :shipmentId];
    }
}
```

4. Callouts

Use Case: Fetch live shipment tracking info from courier APIs.

Explanation: Salesforce performs HTTP callouts to external endpoints to send or retrieve data.

Steps:

- 1. Ensure Remote Site Settings or Named Credential exist
- 2. Use HTTP classes in Apex to make callouts:

```
HttpRequest req = new HttpRequest();
req.setEndpoint('https://api.courier.com/track/123');
req.setMethod('GET');
HttpResponse res = new Http().send(req);
System.debug(res.getBody());
```

5. Platform Events

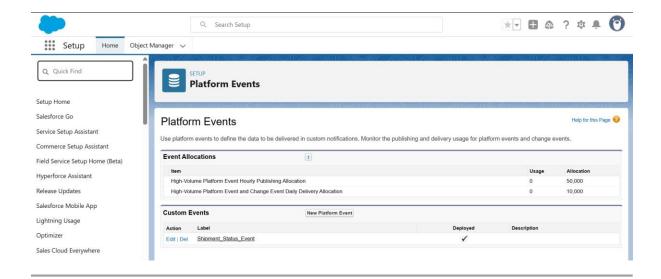
Use Case: Notify internal Salesforce users or systems when shipment status changes externally.

Explanation: Publish/subscribe model to push events in real time.

Steps:

Create a Platform Event

- 1. Go to Setup \rightarrow Platform Events \rightarrow New Platform Event
- 2. Name it: Shipment Status Event
- 3. Set Publish Behavior: Publish Immediately
- 4. Define fields: ShipmentId, Status, Timestamp
- 5. Subscribe via Trigger or Flow to update records



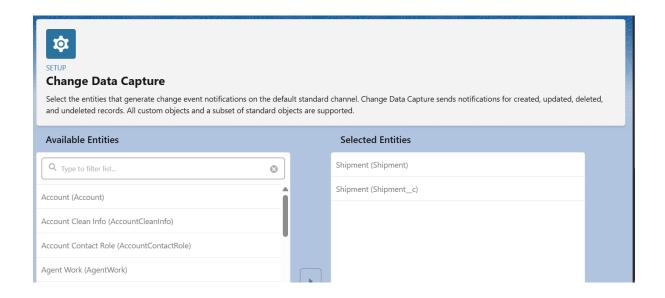
6. Change Data Capture (CDC)

Use Case: Track changes in Shipment object for external systems.

Explanation: Salesforce automatically publishes events whenever a record changes. Useful for integrations needing real-time updates.

Steps:

- 1. Setup → Change Data Capture → Enable for Shipment c
- 2. Subscribe via CometD, Flow, or Apex Trigger



7. Salesforce Connect

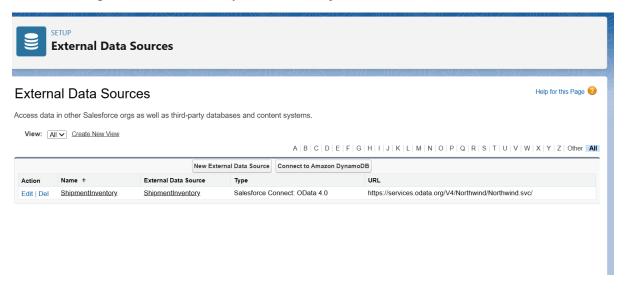
Use Case: Access external shipment inventory without storing in Salesforce.

Explanation: Use External Objects to map external databases or APIs as if they were native objects.

Steps:

1. Setup \rightarrow External Data Sources \rightarrow New \rightarrow Type (OData/Custom)

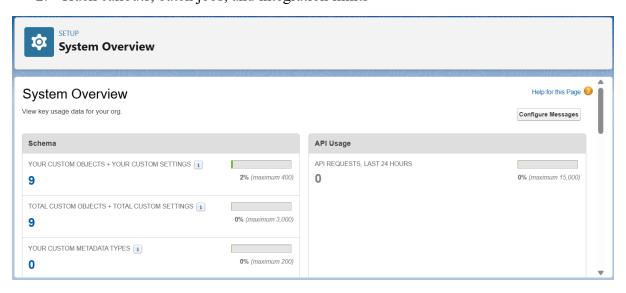
2. Configure connection \rightarrow Sync external object \rightarrow Add tab if needed



8. API Limits

Use Case: Monitor limits to prevent hitting governor limits during integration. Explanation: Salesforce enforces daily and concurrent API limits per org. Steps:

- 1. Setup → System Overview → Check API Usage
- 2. Track callouts, batch jobs, and integration limits



9. OAuth & Authentication

Use Case: Securely connect Salesforce to external services or allow apps to access Salesforce data.

Explanation: OAuth 2.0 provides token-based authentication without exposing passwords. Steps:

- 1. Setup \rightarrow App Manager \rightarrow New Connected App
- 2. Enable OAuth settings \rightarrow Select scopes \rightarrow Save
- 3. Use Named Credential or custom code for authentication

10. Remote Site Settings

Use Case: Allow Salesforce to call external endpoints via HTTP callouts.

Explanation: Any URL that Salesforce calls must be registered in Remote Site Settings for security reasons.

Steps:

- 1. Setup \rightarrow Remote Site Settings \rightarrow New Remote Site
- 2. Enter Name, URL of external system \rightarrow Save

