# MediConnect — Phase 7: Integration & External Access Documentation

Author: Neha Doddi
Org Alias: MediConnectOrg
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### **Purpose**

In this phase, the MediConnect application was extended to communicate with an external system using Salesforce's integration features. The goal was to simulate how MediConnect could connect with third-party healthcare services such as lab systems, telemedicine APIs, or SMS gateways for sending alerts. For the purpose of demonstration, a public REST API (https://jsonplaceholder.typicode.com) was used to represent an external service. The integration was implemented through Named Credentials and an Apex callout class, ensuring security, scalability, and reusability.

# **Steps Implemented**

### **Step 1: Create Named Credential**

• Navigation:

Setup  $\rightarrow$  Security  $\rightarrow$  Named Credentials  $\rightarrow$  New

The first step was to configure a **Named Credential** in Salesforce. A Named Credential provides a secure way to store endpoint URLs and authentication details, so developers do not need to hardcode them in Apex classes. In this project, a Named Credential named *MediConnect\_API* was created and configured to allow callouts.

#### Details:

Label: MediConnect API

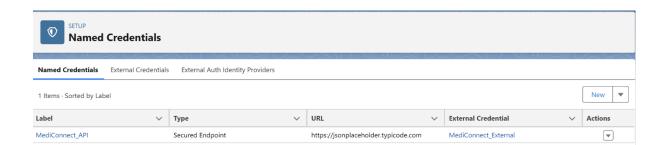
Name: MediConnect API

URL: https://jsonplaceholder.typicode.com

Enabled for Callouts:

Authentication: None (for test API)

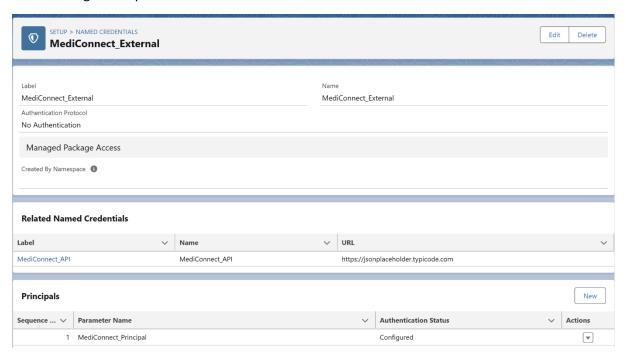
The URL was set to https://jsonplaceholder.typicode.com, which acts as a mock API provider. In real-world healthcare use cases, this URL would point to actual lab systems or patient monitoring services, and authentication would be required.



# Step 2: Create External Credential & Principal

External Credential and Principal were created to define how Salesforce should authenticate with the external service. Although no authentication was needed for the mock API, this step establishes the structure for future scalability when secure authentication is required.

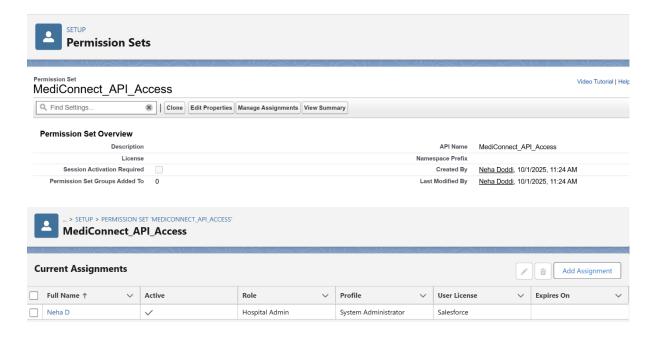
- Navigation:
  - Setup → Security → External Credentials → New
- Created a Principal (MediConnect\_Principal)
- Assigned Sequence Number = 1



The principal was assigned a sequence number, and permissions were granted by assigning a **Permission Set** to the user, ensuring that only authorized profiles can execute the callout.

# **Step 3: Assign Permission Set**

- Created a Permission Set (MediConnect\_Integration\_Access)
- Added External Credential permission
- Assigned to Self User



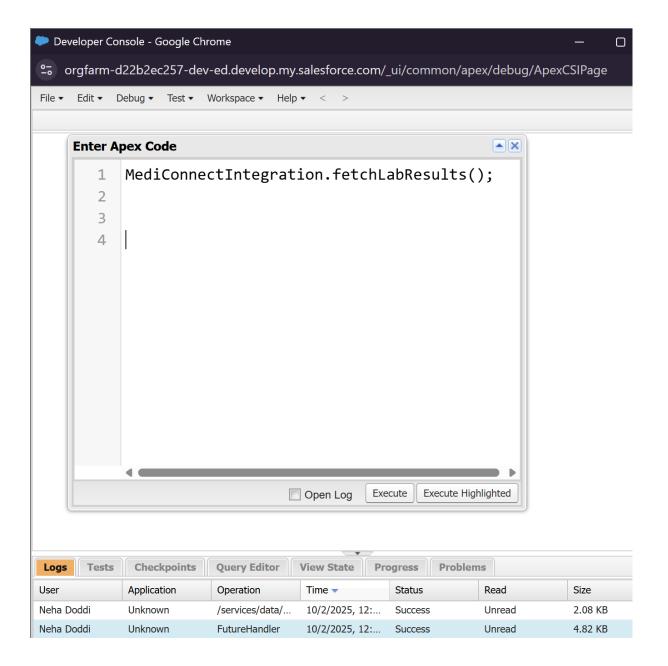
# **Step 4: Create Apex Class for Callout**

```
public with sharing class MediConnectIntegration {
    @AuraEnabled
    public static void fetchLabResults() {
        Http http = new Http();
        HttpRequest request = new HttpRequest();
        request.setEndpoint('callout:MediConnect_API/posts');
        request.setMethod('GET');
        HttpResponse response = http.send(request);
        System.debug('Response Status: ' + response.getStatus());
        System.debug('Response Body: ' + response.getBody());
    }
}
```

An **Apex integration class** was developed. The class MediConnectIntegration was written to perform a REST callout using the endpoint defined in the Named Credential. The method fetchLabResults() sends a GET request to the mock API and processes the response. This simulates retrieving patient lab results from an external system. The key advantage here is that the integration code remains clean and secure, as sensitive details like endpoint URLs and credentials are not hardcoded.

# **Step 5: Test Callout in Developer Console**

- Opened Developer Console → Execute Anonymous → MediConnectIntegration.fetchLabResults();
- Status: Success



# **Step 6: View Debug Logs**

- Navigation: Setup → Debug Logs → Add User Trace → Select Self → Run Apex → Refresh Logs
- Confirmed API Response displayed in debug logs.

Once the Apex class was implemented, the integration was tested using the **Developer Console**. By executing the line MediConnectIntegration.fetchLabResults(); in the console's Execute Anonymous Window, the callout was triggered, and the response was received successfully. To confirm and analyze the integration, **Debug Logs** were generated. Debug Logs provided detailed insights into the request and response, confirming that Salesforce successfully communicated with the external REST API.



**Debug Logs** 

Help for this Page 🕜



A debug log records database operations, system processes, and errors that occur when executing a transaction or while running unit tests. The system generates a debug log for a user every time that user executes a transaction and the user has a trace flag with start and expiration dates that contain the transaction's start time. You can monitor and retain debug logs for the users specified below.

One SFDC\_DevConsole debug level is shared by all DEVELOPER\_LOG trace flags in your org.

View: All V Create New View												
User Trace Flags	i	New	New									
Action	Name 1	Log Type	Requested By	Start Date	Expiration Date	Debug Level Name						
Delete   Edit   Filters	Doddi, Neha	USER_DEBUG	Neha Doddi	10/1/2025, 11:48 AM	10/1/2025, 12:18 PM	<u>Developer</u>						
Delete   Edit   Filters	Doddi, Neha	DEVELOPER_LOG	Neha Doddi	10/1/2025, 11:59 AM	10/1/2025, 12:08 PM	SFDC DevConsole						
Delete   Edit   Filters	EPIC, OrgFarm	DEVELOPER_LOG	OrgFarm EPIC	4/7/2022, 6:24 AM	4/7/2022, 6:29 AM	SFDC DevConsole						

Debug Logs			Delete All						
	User	Request Type	Application	Operation	Status	Duration (ms)	Log Size (bytes)	Start Time	
view   Download   Delete	Neha Doddi	Api	Unknown	/services/data/v64.0/tooling/executeAnonymous/	Success	117	2,112	10/01 11:59:	
/iew   Download   Delete	Neha Doddi	Api	Unknown	FutureHandler	Success	206	4,937	10/01 11:59:	