

## MediConnect — Phase 7: Integration & External Access Documentation

**Author:** Neha Doddi

**Org Alias:** MediConnectOrg

**Date:** 2025-10-03

### 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 → Security → Named Credentials → 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.

SETUP Named Credentials					
Named Credentials External Credentials External Auth Identity Providers					
1 Items - Sorted by Label					
New					
Label	Type	URL	External Credential	Actions	
MediConnect_API	Secured Endpoint	<a href="https://jsonplaceholder.typicode.com">https://jsonplaceholder.typicode.com</a>	MediConnect_External		

## 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 screenshot shows the Salesforce configuration page for a Named Credential named 'MediConnect\_External'. The page is titled 'SETUP > NAMED CREDENTIALS' and includes 'Edit' and 'Delete' buttons. The configuration details are as follows:

Label	Name
MediConnect_External	MediConnect_External

Authentication Protocol: No Authentication

Managed Package Access: [Link]

Created By Namespace: [Info icon]

---

**Related Named Credentials**

Label	Name	URL
MediConnect_API	MediConnect_API	https://jsonplaceholder.typicode.com

---

**Principals** [New button]

Sequence ...	Parameter Name	Authentication Status	Actions
1	MediConnect_Principal	Configured	[Dropdown arrow]

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

SETUP

Permission Sets

Permission Set

MediConnect\_API\_Access

Video Tutorial | Help

Clone

Edit Properties

Manage Assignments

View Summary

Permission Set Overview

Description	API Name	MediConnect_API_Access
License	Namespace Prefix	
Session Activation Required <input type="checkbox"/>	Created By	Neha Doddi, 10/1/2025, 11:24 AM
Permission Set Groups Added To 0	Last Modified By	Neha Doddi, 10/1/2025, 11:24 AM

... > SETUP > PERMISSION SET 'MEDICONNECT\_API\_ACCESS'

MediConnect\_API\_Access

Current Assignments

Add Assignment

<input type="checkbox"/> Full Name ↑	Active	Role	Profile	User License	Expires On
<input type="checkbox"/> Neha D	✓	Hospital Admin	System Administrator	Salesforce	

## 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**

The screenshot shows the Salesforce Developer Console in a Google Chrome browser. The address bar displays the URL: `orgfarm-d22b2ec257-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The menu bar includes File, Edit, Debug, Test, Workspace, and Help. A modal window titled "Enter Apex Code" is open, containing a text area with the following code:

```
1 MediConnectIntegration.fetchLabResults();
2
3
4 |
```

At the bottom of the modal are buttons for "Open Log", "Execute", and "Execute Highlighted". Below the modal, the "Logs" tab is selected in the console's navigation bar. The logs table shows the following data:

User	Application	Operation	Time	Status	Read	Size
Neha Doddi	Unknown	/services/data/...	10/2/2025, 12:...	Success	Unread	2.08 KB
Neha Doddi	Unknown	FutureHandler	10/2/2025, 12:...	Success	Unread	4.82 KB

### 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.



SETUP

## Debug Logs

## 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 [Create New View](#)

## User Trace Flags

[New](#)

Action	Name ↑	Log Type	Requested By	Start Date	Expiration Date	Debug Level Name
<a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Filters</a>	<a href="#">Doddj, Neha</a>	USER_DEBUG	<a href="#">Neha Doddj</a>	10/1/2025, 11:48 AM	10/1/2025, 12:18 PM	<a href="#">Developer</a>
<a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Filters</a>	<a href="#">Doddj, Neha</a>	DEVELOPER_LOG	<a href="#">Neha Doddj</a>	10/1/2025, 11:59 AM	10/1/2025, 12:08 PM	<a href="#">SFDC_DevConsole</a>
<a href="#">Delete</a>   <a href="#">Edit</a>   <a href="#">Filters</a>	<a href="#">EPIC, OrgFarm</a>	DEVELOPER_LOG	<a href="#">OrgFarm EPIC</a>	4/7/2022, 6:24 AM	4/7/2022, 6:29 AM	<a href="#">SFDC_DevConsole</a>

[Previous Page](#) | [Next Page](#)

## Debug Logs

[Delete All](#)

	User	Request Type	Application	Operation	Status	Duration (ms)	Log Size (bytes)	Start Time
<a href="#">View</a>   <a href="#">Download</a>   <a href="#">Delete</a>	<a href="#">Neha Doddj</a>	Api	Unknown	/services/data/v64.0/tooling/executeAnonymous/	Success	117	2,112	10/01 11:59:22
<a href="#">View</a>   <a href="#">Download</a>   <a href="#">Delete</a>	<a href="#">Neha Doddj</a>	Api	Unknown	FutureHandler	Success	206	4,937	10/01 11:59:22

[Delete All](#)