# Phase 7: Advanced Salesforce Integrations and Limits

## Named Credentials

Named Credentials in Salesforce simplify authentication for external systems by storing authentication settings in a secure, reusable format. They remove the need to hardcode credentials in Apex code.

## External Services

External Services allow Salesforce to connect declaratively with external APIs by importing schema definitions. Admins can use Flows to call APIs without writing Apex code.

## Web Services (REST/SOAP)

Salesforce supports both REST and SOAP web services for integration. REST is lightweight and commonly used for web and mobile applications, while SOAP is more formal and suited for enterprise-grade integrations.

## Callouts

Callouts enable Salesforce to send requests to external services. HTTP callouts can be made through Apex classes, requiring proper Remote Site Settings or Named Credentials.

## Platform Events

Platform Events are part of Salesforce’s event-driven architecture, allowing apps to communicate inside and outside Salesforce in near real-time.

## Change Data Capture

Change Data Capture (CDC) allows external systems to receive notifications of data changes in Salesforce records, ensuring synchronization across platforms.

## Salesforce Connect

Salesforce Connect allows access to external data sources in real-time without storing the data in Salesforce. It uses OData adapters and keeps data outside Salesforce while still accessible to users.

## API Limits

Salesforce enforces API limits to maintain system performance. These limits depend on the edition and licenses of the org, covering REST, SOAP, Bulk, and Streaming APIs.

## OAuth & Authentication

OAuth 2.0 is used for secure authentication and authorization in Salesforce integrations. It supports flows like Web Server, User-Agent, and JWT for different use cases.

## Remote Site Settings

Remote Site Settings are required to allow Salesforce to send outbound requests to untrusted external sites. Named Credentials are the modern alternative.