



Before starting with the commit process, let's look at some of the Copado core elements:

- A **credential** is a connection between a user and an environment. The credential will inherit the permissions of the user that authenticated the connection.
- An **environment** record is created automatically in Copado when a credential is authenticated.
- A **user story** is the smallest unit of work in an Agile framework. Copado uses a user story as a container object to develop, commit, promote, and deploy development work.
- A **project** is a container of your user stories and it must be linked to a pipeline.
- A **release** lets you group user stories to promote them together and keep track of the version of changes that your application experiences after every deployment.
- A **pipeline** is a list of connections defining a path in which components will move through the release management process. Whenever you work with user stories under a project linked to a pipeline, Copado will know the next environment where to deploy.

## THE COMMIT PROCESS

1. To commit metadata components into Git Copado click on the **Commit Changes** button.
  - When committing changes in a user story, the changes are committed into a new user story feature branch and this feature branch is created by default out of the Main Branch field.
  - When a user commits a component in a user story, Copado validates if a feature branch for that user story exists already in the Git repository. Next, Copado verifies if the metadata retrieved has any changes concerning the repository version.

## USER STORY COMMIT PAGE FOR SALESFORCE ENVIRONMENT

After completing the required changes in the source org, you need to link them to the user story.

2. To open the User Story Commit page from a user story, click on the **Commit Changes** button.

The screenshot shows the 'User Story Commit' page with three main fields highlighted:

- Git Operation:** Set to 'Commit Files'.
- Commit Message:** 'US-0000037: Deploy New Account External Id Field'.
- Git Snapshot Name:** 'Dev1'.

### Git Operation

It allows you to pick a type of Git operation according to the change you want to link to the user story.

### Commit Message

By default it will be pre-populated with the user story number and title, yet the users can edit it to provide a more specific name.

### Git Snapshot Name

The Git snapshot is tied to the credential used to retrieve the metadata from the source environment. Credentials are defined at the user story level.

## User Story Commit

Dev1 > Academy Content / dev1

Git Operation

- Commit Files
- Recommit Files
- Destructive Changes
- Full Profiles & Permission Sets

- **Commit Files:** Standard commit, used to link changes.
- **Recommit:** Commit again previously committed components.
- **Destructive Changes:** Commit deletions, used to deploy a deletion.
- **Full Profiles and Permission Sets:** Used when committing full profiles or permission sets including all level security.

## METADATA GRID

The purpose of the metadata grid in the **Select Metadata** section is to select the metadata you want to commit to the feature branch. Copado keeps a **metadata index** of each Salesforce org.

Select Metadata

Refresh All Metadata Refresh Recent Changes Auto-Select Changes

All Metadata		Selected Metadata					
Select...	Retrieve ...	Name	Type	Last Modified By ID	Last Modified Date	Created By	Created Date
<input type="checkbox"/>	<input type="checkbox"/>	Account.External_ID__c	CustomField	Academy Copado	2021-08-06	Academy Copado	2021-08-06
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account %28Marketing%29 Layout	Layout	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account %28Sales%29 Layout	Layout	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account %28Support%29 Layout	Layout	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account Layout	Layout	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Admin	Profile	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Analytics Cloud Integration User	Profile	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Analytics Cloud Security User	Profile	Academy Copado	2021-08-06	Academy Copado	2021-06-24
<input type="checkbox"/>	<input type="checkbox"/>	Authenticated Website	Profile	Academy Copado	2021-08-06	Academy Copado	2021-06-24

Select All Unselect All

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3. When clicking on the **Refresh All Metadata** button, Copado runs a scan of the org and indexes all the available metadata items. Once the index is refreshed, Copado re-renders the grid with the updated information.

- If you created a new component after the last refresh, it won't appear in the grid as it has not been indexed. Refresh your grid to update the index.

## METADATA SELECTION

The purpose of the metadata grid in the **Select Metadata** section is to select the metadata you want to commit to the feature branch. Copado keeps a **metadata index** of each Salesforce org.

All Metadata		Selected Metadata	
Select...	Retrieve ...	Name	
<input type="checkbox"/>	<input type="checkbox"/>	Account.External_ID__c	
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account %28Marketing%29 Layout	
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account %28Sales%29 Layout	
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account %28Support%29 Layout	
<input type="checkbox"/>	<input type="checkbox"/>	Account-Account Layout	

- **All Metadata:** Displays the available components that can be selected to be committed.
- **Selected Metadata:** Under this tab, you can review your already selected components.
- **Selected:** Check the **Selected** checkbox to select a component you want to commit and later deploy. Every selected component will become part of the "Selected Metadata".
- **Retrieve Only:** The retrieve only functionality is restricted to work with profiles and permission sets to provide incremental permissions such as Field Level Security, Object Level Security, etc. Components flagged as **Retrieve Only** will not be committed or deployed. When selecting the **Retrieve Only** checkbox, both **Selected** and **Retrieve Only** will be checked.

## COMMIT YOUR CHANGES

- After selecting the metadata you can launch the commit job by clicking on the **Commit Changes** button.

The screenshot shows the 'User Story Commit' screen. At the top, it says 'Dev1 > Academy Content / dev1'. Below that, 'Git Operation' is set to 'Commit Files'. The 'Commit Message' field contains 'US-0000037: Deploy New Account External Id Field'. To the right, 'Git Snapshot Name' is 'Dev1' and 'User Story Reference' is 'US-0000037'. At the bottom right are 'Cancel', 'Advanced', and a large blue 'Commit Changes' button.

- Immediately after, Copado will start and follow the **Commit Flow** process.
- Once the Commit job has concluded, the result of the Git commit can be reviewed from the **User Story Commits** related list.
- You can review the selected components in a user story from the **User Story Selections** section, which will be updated by Copado after every successful commit.
- Additionally, Copado allows you to access the feature branch in your Git repository directly from a user story just by clicking on the **View in Git** link.

## COMMIT CHANGES FOR CLOUD ENVIRONMENT

The screenshot shows the 'Commit Changes' screen for a cloud environment. At the top, it says 'User Stories > US-000002'. Below that, 'Commit Changes' is selected. The 'Platform' is set to 'SFDX'. The 'Record Type' is 'User Story'. On the left, there's a 'Pull Changes by Date' section with date and time inputs ('1 Sept 2022' and '00:15') and a 'Pull Changes' button. On the right, there's a 'Retrieve Metadata by Type and Name' section with a 'Type' dropdown, a search input ('Type a component name or leave it empty'), and a 'List Metadata' button. Below these are two tabs: 'Files' (selected) and 'Logs'. The 'Files' tab shows a table of committed files:

Operation	Name	Type	Directory	Last Modified Date	Last Modified By
Add	Accounts_with_Entitlements_with_Con...	ReportType	force-app/main/default/	01 Sept 2022, 07:20	User User
Add	Read Only	Profile	force-app/main/default/	01 Sept 2022, 07:20	User User
Add	Admin	Profile	force-app/main/default/	01 Sept 2022, 07:20	User User

- When committing changes to cloud environments other than Salesforce, make sure you have selected **Platform** as SFDX or Others.
- While committing changes in cloud environment, Copado starts the commit process with a **commit action**.
- The commit process links changes to a user story and synchronizes them with the remote **Git repository**.

