



CI/CD Automation with Slack

Admin Guide

Version 2.1

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Overview

Continuous Integration and Continuous Delivery or CI/CD is a practice to deliver quality automations reliably and securely.

The goal of CI/CD accelerator is to automate the way teams build, test, and package their automations. It helps automate the delivery to multiple environments such as test and production. Automating release processes makes it easier for teams to coordinate deployments, run quality controls on release, and reduce errors.

The CI/CD automation accelerator drives consistent release practices across multiple teams in an organization. Once the release processes are automated, teams can build better solutions and reduce change defect rates.

Using a standardized and automated approach, organizations can:

- Introduce new services faster.
- Increase the business value through improved quality of service.
- Enhance production environment stability by reducing post-implementation incident spikes.

Note: Workato Accelerators are not formally supported beyond the standard platform support provided as part of your existing Workato agreement. Accelerators are intended as a starting point for your solution development and can be modified/customized to your organization's needs. You may reach out to your Workato customer success team to provide feedback on this Accelerator or email accelerators.feedback@workato.com.

Dependencies

1. CI/CD Automation version 2 is built for use with Workato Environments feature. If you use multiple workspaces as environments, please request CI/CD Automation version 1.
2. Once installed, this accelerator includes 5 active recipes. This is in addition to any recipes you may create to customize the accelerator.
3. A GitHub account and repositories.
4. Slack workspace with access to Workbot for Slack from Workato.

Installing The Accelerator

The following high-level steps are required to install this accelerator. Details for each step are covered in the following sections.

1. Install the package.
2. Connect to Workato environments.
3. Setup GitHub repositories.
4. Setup Slack workspace.
5. Start the recipes.

CI/CD Automation Accelerator Assets

The accelerator is provided in a zip package which contains the following assets:

1. Two connector SDK
 - a. CICD for Workato
 - b. CICD for GitHub
2. Nine recipes
 - a. 4 Workbot for Slack recipe
 - b. 4 recipe functions
 - c. 1 standard recipe
3. Two lookup tables
 - a. Project configuration
 - b. Audit logs
4. Three connections
 - a. Workato accounts
 - b. GitHub account
 - c. Workbot for Slack

Installing the package

1. Create a project/folder to import the package. This guide assumes a project named "**CICD Automation**" is used for importing the package.
2. Import the package **CICD-Automation-Slack-x.y.z.zip** (where x.y.z is the version number) using the Recipe Lifecycle Management tool.
 - a. For detailed steps please refer to the [docs](#).
 - b. Lookup Table Data import – select ignore data.

Connect to Workato environments

CICD for Workato custom SDK connection uses Workato developer APIs ([docs](#)) to perform various actions for package export and import with added advantage of long actions to handle asynchronous requests.

It also supports configuring multiple Workato workspaces in the same connection for ease of use and provides a secure connectivity to all Workato environments.

Navigate to the "Connections" folder under imported package to update the connection placeholder to configure your Workato environments.

Asset name	CICD CONN Workato
Asset type	Connection
Asset path	CICD Automation/Slack/Connections

Provide an environment name along with corresponding environment email and API key.

Workato environments

▼ Hide

Environment #1

▼ Hide

Environment name *

DEV


Workato environment identifier. For example, DEV, TEST, or PROD.

Email address *

admin@example.com

Email address to access Workato platform APIs.

API key *



.....

Show

You can find your API key in the [settings page](#)

+ Add environment

Connect

You can find your personal API key in the respective environment workspace [settings page](#).

Open Account Settings from the left navigation bar in your workspace. Navigate to the API key section. Here, you can retrieve your email and Workato API key and refresh the API key if necessary.

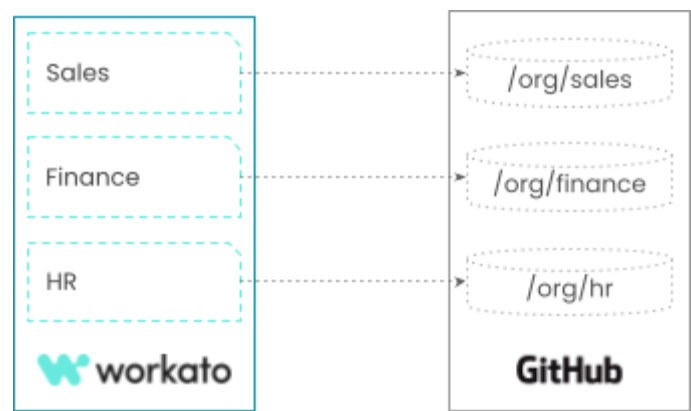
Repeat above steps for configuring test and production environments.

Note: Account settings are accessible using the workspace owner account only.

Setup GitHub repositories

CI/CD Automation accelerator is developed to work with GitHub as a version control system out-of-the box.

The accelerator assumes that Workato top-level projects are mapped directly to the GitHub repositories. For example, if an organization contains three projects across Sales, Finance, and HR, you can map them to respective repositories in the organization's GitHub account as separate repositories.




This approach has several benefits. By dividing the repositories by projects, you can continue to enforce access control policies outside the Workato platform. Also, this approach provides a solid foundation to manage release versions by projects. Please note that it is not recommended to modify files outside the Workato platform.











Note: Please initialize the GitHub repository before using with CI/CD automation accelerator. You can use a sample readme file offered by GitHub while creating the repository for this purpose.

Asset name	CICD CONN GitHub
Asset type	Connection
Asset path	CICD Automation/Slack/Connections

Update the connection placeholder in the imported package to configure your GitHub account.

GitHub connection options

Connection type	<div><p>Connection type *</p><div>GitHub.com</div><p>Select if GitHub is hosted on-prem or in cloud.</p><p>Client ID *</p><div>4748d1ffeff884885d9</div><p>Learn more about setting up OAuth 2.0 for your GitHub account.</p><p>Client secret *</p><div></div><p>Base branch name *</p><div>Main</div><p>Select the name of your base branch.</p><p>Repository owner name *</p><div>ea-demo</div><p>E.g., octocat is owner for repository https://github.com/octocat/hello-world.</p><p>Is this app in a private network?</p><div>No gateway</div><p>If it is, you need to access it via a Workato on-prem agent. Learn more</p><p>Connect</p></div> <p>Select if GitHub is hosted on-prem or in the cloud.</p>
OAuth Client ID and secret	<p>Create a GitHub OAuth app for use with the accelerator. Use this document for a step-by-step guide. Use the following values for setting up OAuth app:</p> <p>Application name: Workato CICD Automation Homepage URL: https://www.workato.com Application description: Workato CICD Automation Authorization callback URL: https://www.workato.com/oauth/callback</p>
Base branch name	<p>Select the name of the repository base branch. For older setup it may be referred as “master”.</p>
Repository owner name	<p>Provide a repository owner name, it should be the same for all repositories to be used with the accelerator.</p> <p>In the example below, the owner name is “workato” for the repository “custom_connector_docs”.</p>

	<div><div> Search or jump to... / Pull requests</div><div> workato / custom_connector_docs</div></div>
Additional configuration for on-prem edition	
GitHub hostname	<div><div><div><div> Assets >  CICD Automation/Connections > [CICD] CONN - GitHub</div><div> [CICD] CONN - GitHub </div></div><div><div>Connection type *</div><div>On Premise </div><div>Select if GitHub is hosted on-prem or in cloud.</div><div>GitHub hostname *</div><div><div></div><div>GitHub hostname for authentication and API interactions. Enter your on-prem enterprise edition hostname.</div></div><div>API base URL *</div><div><div></div><div>API base URL for on-prem version. Typically, <code>http(s)://[hostname]/api/v3</code>. Refer to GitHub documentation for more details.</div></div><div>Client ID *</div><div><div>59819edba13f0954fbd7</div><div>Learn more about setting up OAuth 2.0 for your GitHub account.</div></div><div>Client secret *</div><div><div> *****</div></div><div>Base branch name *</div><div>Master </div><div>Select the name of your base branch.</div><div>Repository owner name *</div><div><div>workato</div><div>E.g., octocat is owner for repository <code>https://github.com/octocat/hello-world</code>.</div></div><div>Is this app in a private network?</div><div>No gateway </div><div>If it is, you need to access it via a Workato on-prem agent. Learn more</div><div>Connect</div></div></div></div>
	Provide hostname for on-premise GitHub server.
Is this app in a private network?	You need to access the on-prem GitHub edition via a Workato on-prem agent (OPA). Learn more about how to configure the OPA. Accelerator uses HTTP profile for making the connection.

GitHub webhook configuration

1. For each GitHub repository, set up webhook events by going to the “Settings” page of the repository.
2. Select the Webhooks option.
3. Update Payload URL to match imported from “CICD Automation/Slack/Recipes/CICDS | REC-001 | Create release and import package with Slack” recipe’s webhook endpoint. You can find it in Trigger (step 1) of the recipe.

Assets > CICD Automation/Main > [CICD] REC - Create release and import package : Recipe

[CICD] REC - Create release and import package [Edit recipe](#) [Stop recipe](#) [Help](#) [Share](#)

0 successful | 0 failed Started Tuesday at 6:56 am

Recipe | Jobs | Connections | Versions | Settings

TRIGGER

1 Pull request merged via HTTP webhook Real-time

IF Action | Step 1 | equals closed

AND Merged | Step 1 | is true

Webhook to listen on pull request merge events from GitHub repository to trigger release creation and continuous delivery process.

ACTIONS

2 MONITOR the following actions for error

3 Create release in GitHub [Name](#) | Step 1

Create next release based on commit message on given pull request event.

4 IF Continuous delivery | Step 3 | is true

If the export was marked for continuous delivery...

Yes

No

5 Download package from Workato DEV

Download released package from DEV environment.

6 Import package to Workato TEST

Import the downloaded package to TEST environment.

HELP

This trigger executes recipe actions when webhooks are received. When a recipe is stopped, it will not process webhooks. [Learn more](#)

Event name *

ABC Pull Request Merged

Workato webhook address [Copy](#)

<https://www.workato.com/webhooks/rest/06f0e5aa-2b7d-477c-94c3-5a6873384d60/pull-request-merged>

In your app, set up your webhook events to be sent to this URL, then proceed to the next step to listen for a sample event.

Payload configuration *

Hide

Webhook type *

PUT/POST with JSON payload

Select the HTTP method and payload data type used by webhook. [Learn more](#)

Payload schema

4. Change the content type to “application/json”.
5. Select “Let me select individual events” option and select only the “Pull requests” checkbox.
6. Click “Add webhook” to save.

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

Settings 1

Options

Manage access

Security & analysis

Branches

2 Webhooks

Notifications

Integrations

Deploy keys

Actions

Secrets

Pages

Webhooks / Manage webhook

SettingsRecent Deliveries

We'll send a POST request to the URL below with details of any subscription to receive (JSON, x-www-form-urlencoded, etc). More information c

3 Payload URL *
https://www.workato.com/webhooks/rest/1dc07d46-718b-4a36

4 Content type
application/json

Secret

SSL verification
By default, we verify SSL certificates when delivering payloads.
☒ Enable SSL verification ☐ Disable (not recommended)

Which events would you like to trigger this webhook?
☐ Just the push event.
☐ Send me everything.
5 ☒ Let me select individual events.

Which events would you like to trigger this webhook?

☐ Just the push event.

☐ Send me **everything**.

☒ Let me select individual events.

☐ **Branch or tag creation**

Branch or tag created.

☐ **Check runs**

Check run is created, requested, rerequested, or completed.

☐ **Code scanning alerts**

Code Scanning alert created, fixed in branch, or closed

☐ **Commit comments**

Commit or diff commented on.

☐ **Deployment statuses**

Deployment status updated from the API.

☐ **Discussion comments** 

Discussion comment created, edited, or deleted.

☐ **Forks**

Repository forked.

☐ **Issues**

Issue opened, edited, deleted, transferred, pinned, unpinned, closed, reopened, assigned, unassigned, labeled, unlabeled, milestone, demilestoned, locked, or unlocked.

☐ **Meta**

This particular hook is deleted.

☐ **Packages**

GitHub Packages published or updated in a repository.

☐ **Project cards**

Project card created, updated, or deleted.

☐ **Projects**

Project created, updated, or deleted.

☐ **Pull request review threads**

A pull request review thread was resolved or unresolved.

☒ **Pull requests**

Pull request opened, closed, reopened, edited, assigned, unassigned, review requested, review request removed, labeled, unlabeled, synchronized, ready for review, converted to draft, locked, unlocked, auto merge enabled,

☐ **Branch or tag deletion**

Branch or tag deleted.

☐ **Check suites**

Check suite is requested, rerequested, or completed.

☐ **Collaborator add, remove, or changed**

Collaborator added to, removed from, or has changed permissions for a repository.

☐ **Deploy keys**

A deploy key is created or deleted from a repository.

☐ **Deployments**

Repository was deployed or a deployment was deleted.

☐ **Discussions** 

Discussion created, edited, pinned, unpinned, locked, unlocked, transferred, answered, unanswered, labeled, unlabeled, had its category changed, or was deleted.

☐ **Issue comments**

Issue comment created, edited, or deleted.

☐ **Labels**

Label created, edited or deleted.

☐ **Milestones**

Milestone created, closed, opened, edited, or deleted.

☐ **Page builds**

Pages site built.

☐ **Project columns**

Project column created, updated, moved or deleted.

☐ **Pull request review comments**

Pull request diff comment created, edited, or deleted.

☐ **Pull request reviews**

Pull request review submitted, edited, or dismissed.

☐ **Pushes**

Git push to a repository.

Setup Slack workspace

Navigate to the “Connections” folder under imported package to connect the Slack connection placeholder. It uses standard Slack OAuth for authorization. Select the appropriate workspace during the authentication to create the connection.

Asset name	CICDS CONN Workbot for Slack
Asset type	Connection
Asset path	CICD Automation/Slack/Connections

NLU provider

No items

Choose a connection for your conversational interface. Supports Google's DialogFlow and Amazon Lex.

Advanced

Additional fields that are not needed for most users

► Show

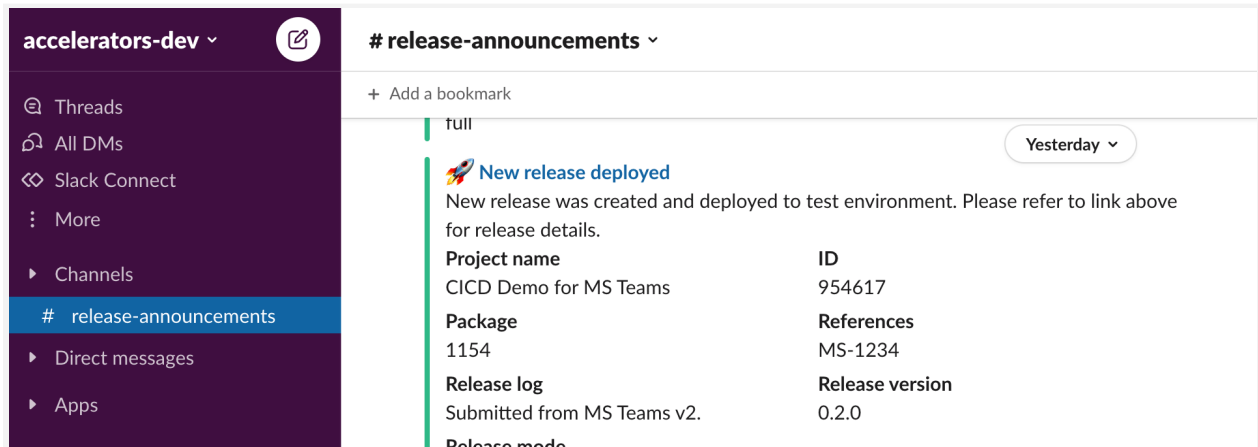
Custom OAuth profile

No value selected

When selected, all requests to the app will use the profile specified [here](#). Create new profile [here](#).

Disconnect

Create a channel named “release-announcement” to keep all collaborators informed as the releases are created.

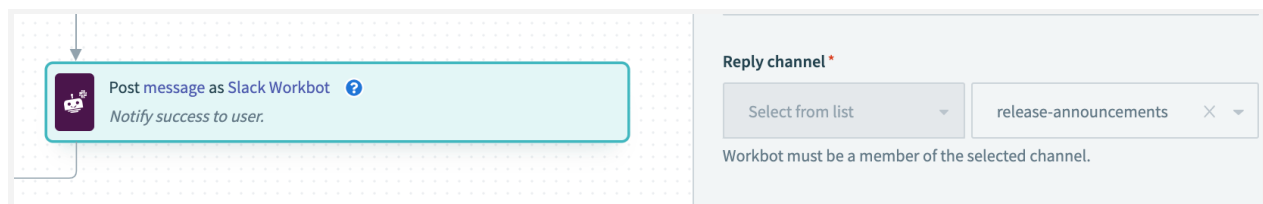


The screenshot shows a Slack interface. On the left, a sidebar for the workspace 'accelerators-dev' contains links to Threads, All DMs, Slack Connect, More, Channels, # release-announcements (selected), Direct messages, and Apps. The main window shows the channel '# release-announcements'. At the top, there's a '+ Add a bookmark' link and a 'full' status indicator. A message from 'New release deployed' is shown, dated 'Yesterday'. The message text says: 'New release was created and deployed to test environment. Please refer to link above for release details.' Below the text is a table with release details:

Project name	ID
CICD Demo for MS Teams	954617
Package	References
1154	MS-1234
Release log	Release version
Submitted from MS Teams v2.	0.2.0
Release mode	

Update the channel name in the recipe “CICD Automation/Slack/Recipes/CICDS | REC | Create release and deploy package” steps #7, #9, and #13.

Connected Workbot should be added to the selected channel to allow notifications.



The screenshot shows a workflow editor. On the left, a step titled 'Post message as Slack Workbot' is highlighted. It includes a question mark icon and the text 'Notify success to user.' On the right, a configuration panel for 'Reply channel' is shown. It has a dropdown menu labeled 'Select from list' and a text input field containing 'release-announcements'. Below the input field, a note states: 'Workbot must be a member of the selected channel.'

Start the recipes

Once you have successfully set up the connections, please start the following recipes. You can click on the dropdown menu on each recipe to start the recipe.

Recipe name	Path under CICD Automation
CICDS BOT Display command options	Slack / Bots
CICDS BOT Configure project	Slack / Bots
CICDS BOT Submit release request	Slack / Bots
CICDS BOT Submit deployment request	Slack / Bots
CICDS REC Create release and deploy package	Slack / Recipes
CICD RF Create folders list	Functions
CICD RF Create projects list	Functions
CICDS RF Build and create pull request	Slack / Recipes
CICDS RF Deploy package	Slack / Recipes

Using The Accelerator

Start the automation

Start the CI/CD automation by using Workbot for Slack command given below.

```
workato cicd start
```

The above command will present different options to the user, select an appropriate option to continue.

 **workbot** APP 11:32 AM
Welcome to Workato CI/CD

Choose an option:

Create release: Export a project to create a release and deploy it to the test environment.

Deploy existing: Deploy an existing release to test or production environment.

Configure project: Configure new project for CI/CD.

+ Create release

 Deploy release

 Configure project ▼

Configure projects

You will need to configure the project for use with CI/CD automation before you can use automated export and import capabilities. You can configure the project by selecting the “Configure project” option. It will open a modal wizard to configure a new project with the following input fields.




There are two different approaches to configure projects

1. **Configure project for full release:** Full release option uses the new [Projects API](#) for the streamlined deployment workflow. Full release presents automatically created list of top-level project for configuration with GitHub repository.


Configuring full release will deploy all assets in the project with each release/deployment request. In addition, it will ensure that all folder structures are in-sync across environments and you will not be required to pre-create folders across environments before configuration/deployment.

The projects deployed using the full release mode will also log complete history of different build and deploy actions under the [Deployment tab](#) for each project.

Name	Description	Optional
Project name	Workato project name to configure. E.g. Salesforce Case Sync.	No
GitHub repository	GitHub repository to be used for creating pull requests and managing project release versions. It is recommended to use one-to-one mapping between project name and GitHub repositories for error-free release tagging.	No
Reviewer username	Pull request reviewer, it should be a valid GitHub username.	Yes
Reviewer Slack	Slack ID of review user for notification during pull request assignment.	Yes

 **Configure Project**  

Project

Select project 

Select the project to configure.

GitHub repository

Enter repository name


GitHub repository to be used for creating release.

Reviewer username (optional)

GitHub username

Pull request reviewer, it should be a valid GitHub username.

Reviewer Slack (optional)

Select reviewer 

Reviewer Slack ID for notification.

Cancel


Submit

2. **Configure project for partial release:** Partial release option will use the manifest and the [Recipe Lifecycle Management APIs](#) for export and import of packages across environments.

Manifests allow you to deploy only the assets that you want to manage as a part of the current release. This gives better flexibility in managing developed assets with other under-development assets separately while allowing them to be part of the same top-level project.

To use this option, you will need to [create a manifest](#) using the platform tools and also ensure that the target top-level project folders already exist in the test and production environments.

Name	Description	Optional
Project name	Workato project name to configure. E.g. Salesforce Case Sync.	No
Manifest ID	Dev environment manifest ID that should be used for export. It can be found in the edit manifest URL. It should be unique across all configured projects. However, you can use different manifest IDs for a given Project name and GitHub repository combination.	No
GitHub repository	GitHub repository to be used for creating pull requests and managing project release versions. It is recommended to use one-to-one mapping between project name and GitHub repositories for error-free release tagging.	No
Reviewer username	Pull request reviewer, it should be a valid GitHub username.	Yes
Reviewer Slack	Slack ID of review user for notification during pull request assignment.	Yes
Test folder	Target folder in the test environment for automated import.	No
Prod folder	Target folder in the production environment for automated import.	No



Configure Project

Project name

Project name to configure.

Manifest ID

Dev environment manifest ID that should be used for export. It can be found in the edit manifest URL.


GitHub repository

GitHub repository to be used for creating release.

Reviewer username (optional)

Pull request reviewer, it should be a valid GitHub username.

Reviewer Slack (optional)


Vamshi Masiragani
● Vamshi Masiragani
▼

Reviewer Slack ID for notification.

Test folder

▼

Target folder in test environment for automated import.

Prod folder

▼

Cancel

Submit

The provided details will be configured in the “Project configuration” lookup table in Workato.

Lookup tables >
CICD | Projects configuration

CICD | Projects configuration


Import CSV
Add entry



Updated on 03/24/2022 10:20 am | 4 entries

Showing 4 entries

Project name	ID	Mode	GitHub repository	Reviewer username	Reviewer notification ID	Test folder name
Sales (MS Teams)	41686	partial	accelerators-dev-teams	pratikdholakia	2916d706-e113-4d63-a61e-c65ec46ae358	CICD Demo for MS
CICD Demo for MS Teams	954617	full	accelerators-dev-teams	pratikdholakia	2916d706-e113-4d63-a61e-c65ec46ae358	NA
Sales (Slack)	41673	partial	accelerators-dev	pratikdholakia	U027D698NB0	CICD Demo for Slac
CICD Demo for Slack	948607	full	accelerators-dev	pratikdholakia	U027D698NB0	NA


Create new release

You can create new releases for any configured projects for continuous integration and continuous delivery.


Creating a release consists of the following automated steps:

1. Build project/export the manifest from the Workato development environment.
2. Download, unzip, and commit the package to a new feature branch in the GitHub repository.
3. Create a pull request and assign it to the configured reviewer.
4. Notify pull request details to the requester and the reviewer on Slack.
5. Monitor pull request merge event and create new release based on commit message details such as release type and last release version.
6. Deploy the newly created to the Workato test environment (if selected).

You can create a new release by selecting the “Create release” option. It will open a modal wizard with the following input fields.

Name	Description	Optional
Select project	<div> Select Project</div> <div><p>Project</p><div>Back To Office Bot ▾</div><p>Select project to create a pull request and new release.</p><div><button>Cancel</button><button>Next</button></div></div> <p>Select the project from the menu to create a new release.</p>	No
Release message	Release comments used as GitHub commit messages.	No
Release type	Select from the Major, Minor, Bug-fix options for automatic release tagging based on semantic versioning policy.	No
Deploy package?	Select Yes to import to the test environment for continuous delivery or No to import later.	No

Reference ID	Used to track any change request number like the JIRA issue with the release. It is optional input but recommended.	Yes
--------------	---	-----


Export and Deploy

Project: Back To Office Bot Manifest: 12356 Github repository: Sales
Test folder: Back to Office Bot

Release message

Used for GitHub commit message.

Release type

Used for semantic versioning policy.

Import package?

☒ Yes, import to TEST environment.
☐ No, I will import later.

Select if package should be imported to test environment for continuous delivery.

Reference ID (optional)

Track change request for the release.

Cancel

Submit

Upon successful build and commit of the package to GitHub repository, a pull request will be created. It will need to be reviewed and managed by the assigned reviewer/user to continue with the rest of the CI/CD process of creating and importing the project release to the test environment.

Reviewers and requesters will be notified of pull request creation events in the Slack message. Reviewers can use the attached pull request link to open it in GitHub. The reviewers can review pull request changed files for adherence to defined guidelines, provide review comments, and request fixes in the dev environment. Or approve the change for promotion to the test environment by merging the pull request.

Pull request for JIRA-4321 #20

 Open ea-demo wants to merge 1 commit into `main` from `feature-JIRA-4321-1618999226` 

 Conversation **0**  Commits **1**  Checks **0**  Files changed **0**



ea-demo commented 1 minute ago



No description provided.

  BREAKING CHANGE: Added new customer sync automation  b95a9e6

Add more commits by pushing to the `feature-JIRA-4321-1618999226` branch on `ea-demo/finance`.



Continuous integration has not been set up

[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.



This branch has no conflicts with the base branch

Merging can be performed automatically.

Merge pull request



You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Reviewers should also ensure that the merge does not have any conflict with the main branch due to any changes/removal of asset files from the project and resolve such issues before merging the pull request.

Tip: For partial release, create manifest with source folder as "All projects" and then select only the assets that you want to be included in the release. This approach will maintain the folder hierarchy and avoid any merge conflicts.

Successful merge events will then be captured by the CI/CD automation accelerator to automatically create a new release and import the package to the test environment, if requested.



workbot APP 5:34 PM



New release deployed

New release was created and deployed to test environment. Please refer to link above for release details.

Project name

Sales (MS Teams)

ID

41686

Package

828234

References

MS-1235

Release log

Sales partial sync from MS Teams.

Release version

1.0.0

Release mode

partial

Deploy release

Finally, you can deploy any existing release using the “Deploy release” option. This option will be useful to promote configured projects to the production environment upon successful completion of the testing phase. But you can also use it to deploy changes to other environments such as testing to rollback changes to previous release versions.

The import existing option requires the following input fields.

Name	Description	Optional
Select project to import	Select the project from the menu to import.	No
Target environment	Select the target environment to import the package.	No
Release version	Select the release version to import. Release versions also display package ID and reference ID, if any, to help select the right version for importing to a higher environment.	No
Comments	Any comments to log with the import process.	Yes

Troubleshooting

Error while connecting Slack

One of the following errors while connecting to Slack workspace:

Bot already installed to the team

Slack team accelerators-dev already has Workbot installed.

We do not support multiple Workbot connections to the same team. Try one of these solutions:

- If you connected to an incorrect Slack team by mistake, try connecting to a different Slack team.
- If you think you should own Workbot, ask the above user to remove it from accelerators-dev. Once they remove it, you will be able to install Workbot. [Learn how to manage apps in Slack.](#)
- You don't really have to use Workbot, you can also create a shining new bot for your Slack team. It's easy and you will be able to do exactly the same things.

Feedback and Questions

If you have any feedback about this accelerator or any of the assets or documentation included with it, please contact the Accelerators team at accelerators.feedback@workato.com.