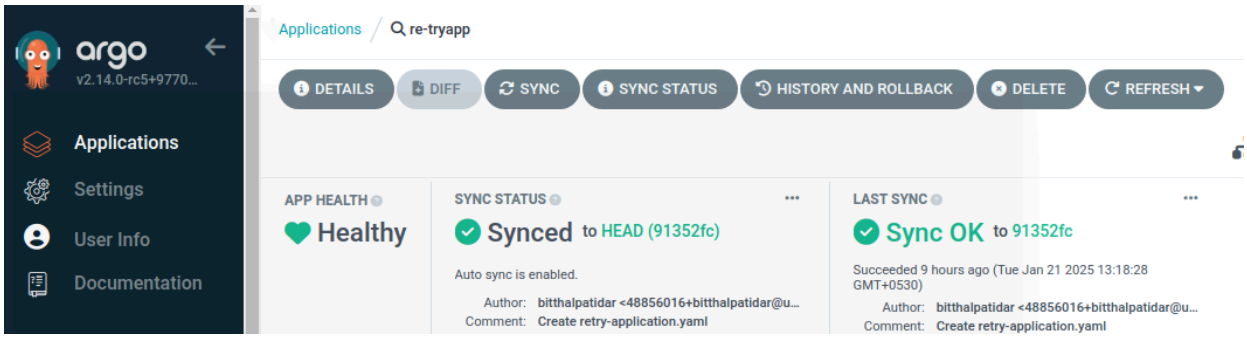
Syncing/Refreshing Applications in Argo CD

1. **Access the Argo CD Dashboard:**
    - Open your browser and navigate to your Argo CD UI URL (e.g., `http://<your-argocd-instance-url>`).
    - Log in with your Argo CD credentials.
2. **Locate the Application:**
    - From the Argo CD dashboard, find the application you want to sync/refresh. Use the search bar or scroll through the list of applications.
3. **Check Application Status:**
    - Look for the **Status** column:
        - **Synced:** The application is in sync with the source repository in the cluster.



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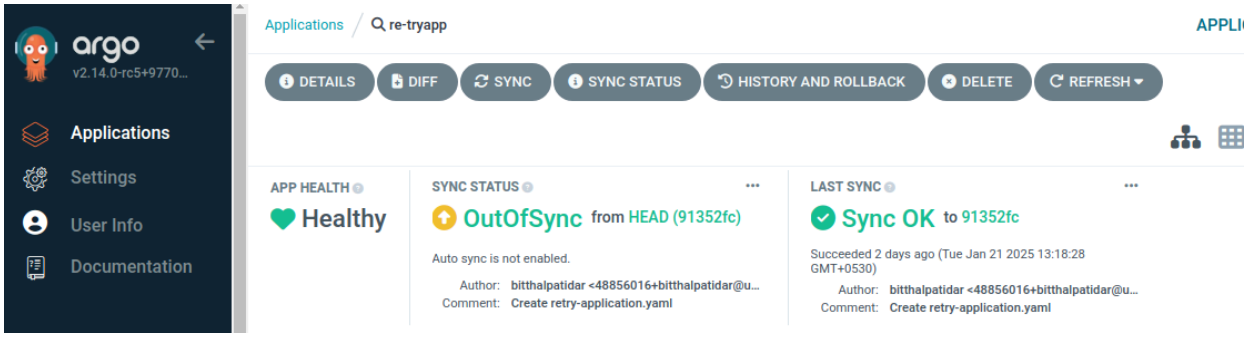
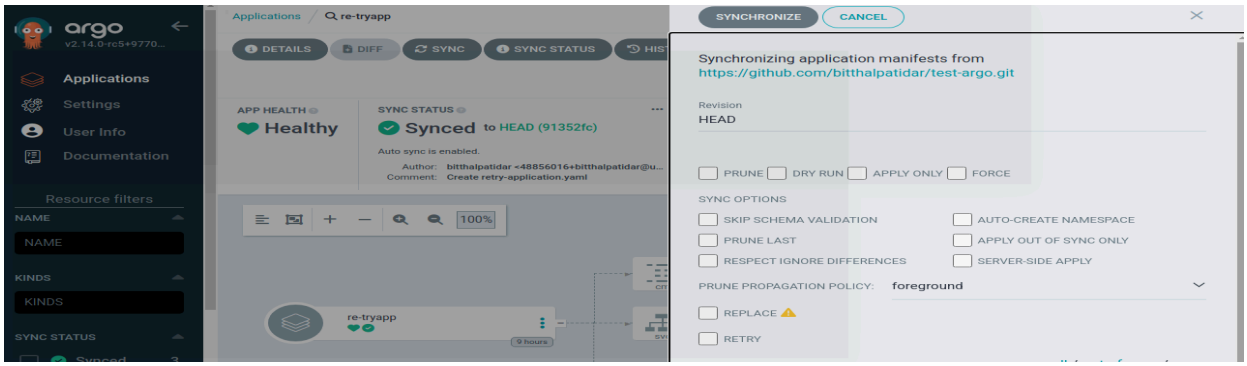
- **Out of Sync:** Changes have been detected in the source repository.



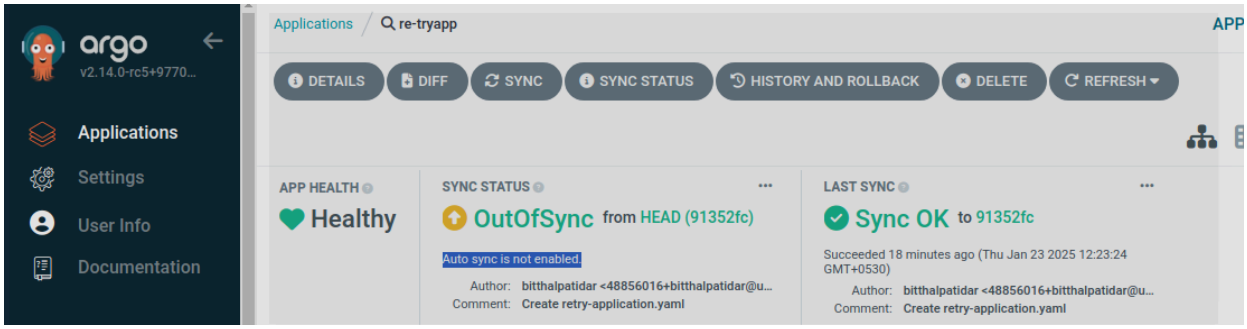
4. **Initiate Sync:**
    - On the application details page, locate the **Sync** button..
    - Click on the **Sync** button to view additional sync options:
        - **Prune Resources:** Deletes resources not tracked in Git.
        - **Dry Run:** Simulates a sync without making any changes.
        - **Apply Only**: Only applies resources without performing any pruning.

- **Force**: Forces the update even if it would result in resource conflicts (e.g., immutable fields).
- **Skip Schema Validation**: Skips validation of the manifest schema before applying.
- **Auto-Create Namespace**: Automatically creates the namespace in the cluster if it doesn't already exist.
- **Prune Last**: Ensures that pruning resources occurs after applying all manifests.
- **Respect Ignore Differences**: Honors the ignore differences configuration when comparing live and desired states.
- **Apply Out of Sync Only**: Only applies resources that are marked as "Out of Sync."
- **Server-Side Apply**: Uses server-side apply instead of client-side apply for updating resources.

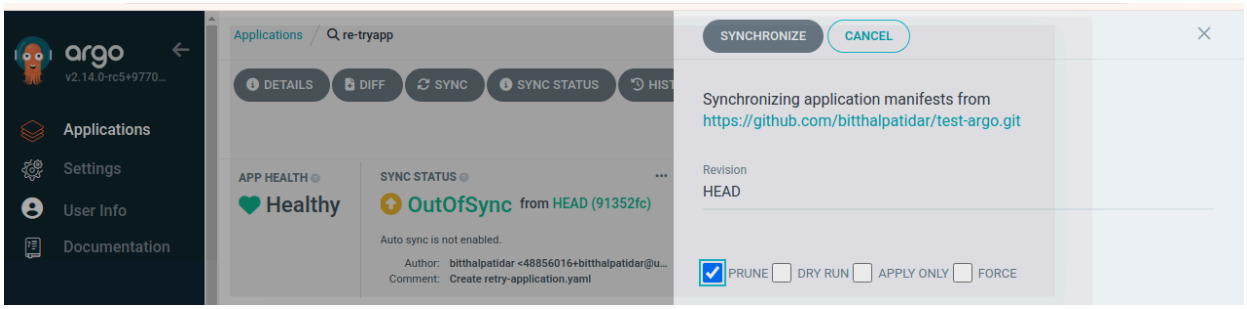


5. Perform Sync:

- **If Auto-Sync is Disabled:**

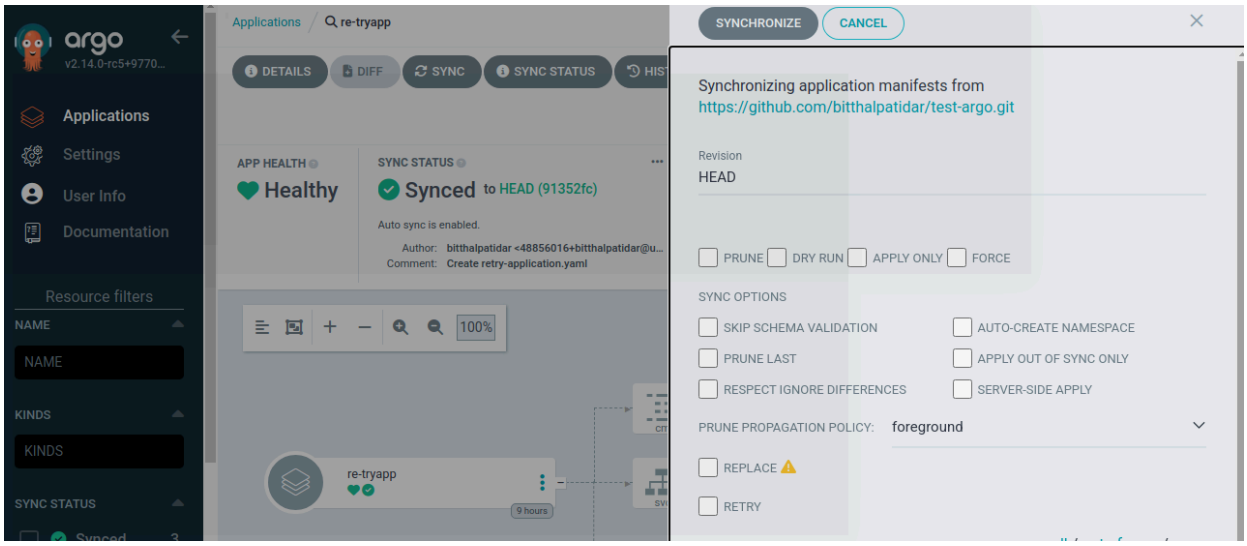


  - Click the **Sync** button and select **SYNCHRONIZE**.



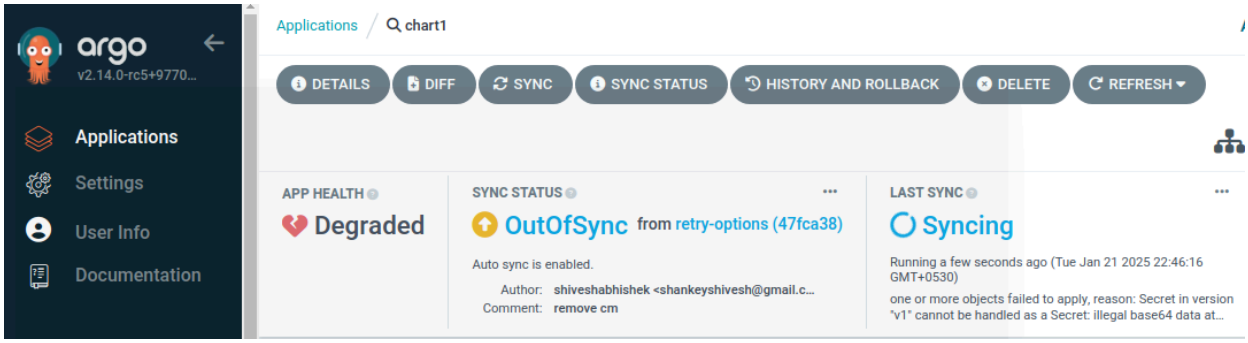
- In the pop-up window, enable the options as required, for example:
  - **Prune Resources:** Deletes resources that are no longer in the Git repository.
  - **Dry Run:** Simulates a sync without applying changes.
- Once the options are selected, confirm by clicking **SYNCHRONIZE**.

- **If Auto-Sync is Enabled:**
  - 3 minutes is the default time for auto-sync.
  - If required to sync manually when auto-sync is enabled, click the **Sync** button followed by **SYNCHRONIZE** with the options required.

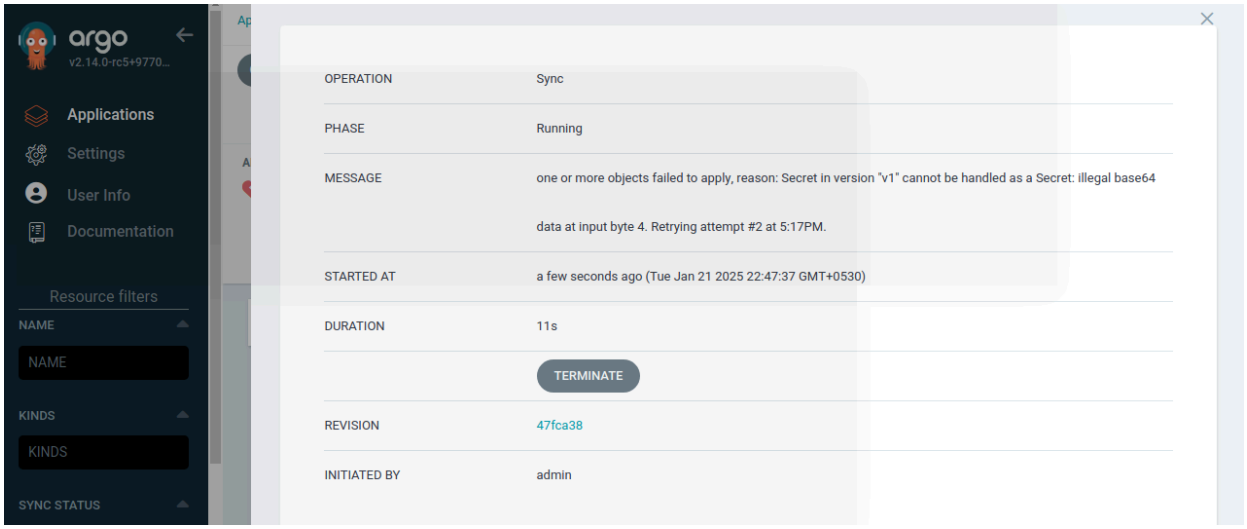


6. **Terminate Sync (If Needed):**

- If the application is in syncing state and you need to stop the process:

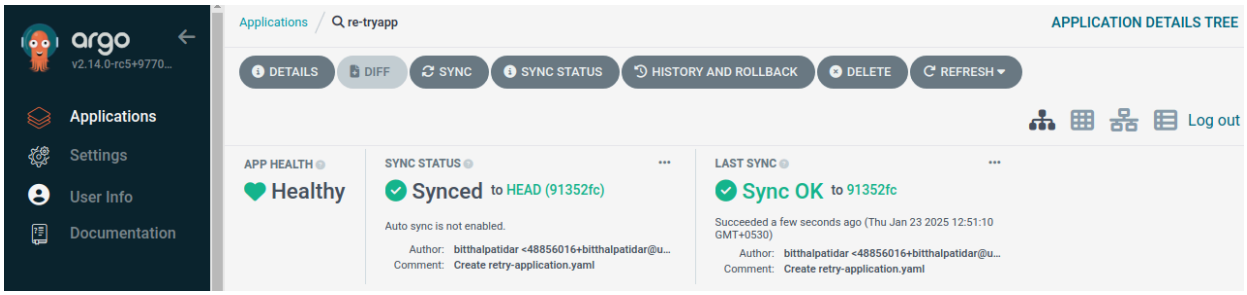


- Click the **Sync Status** button on the application details page.
- Locate the **TERMINATE** button (as shown in the screenshot) and click it to stop the sync operation.

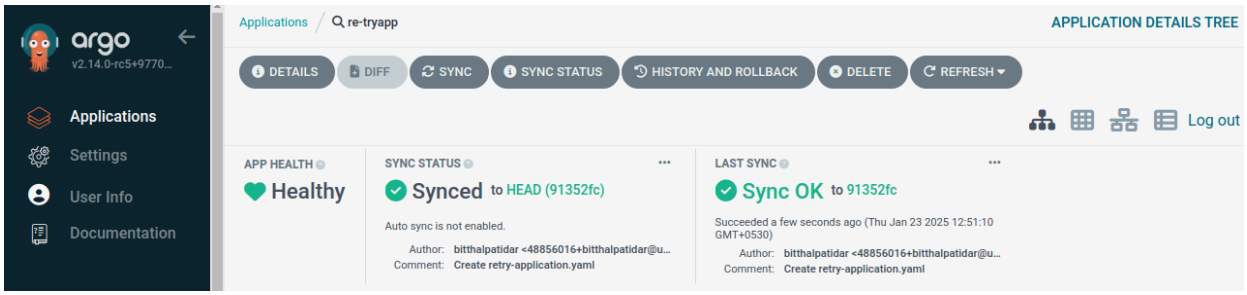


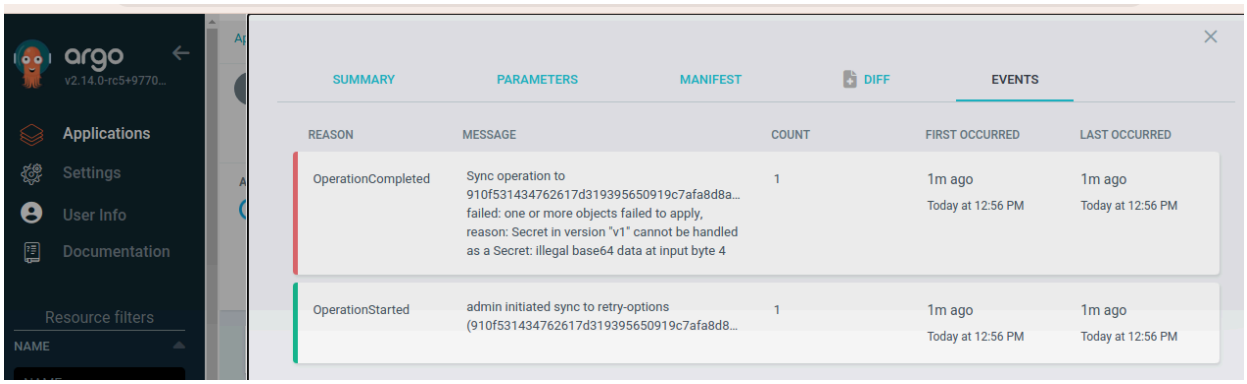
7. Verify Sync Status:

- After the sync is completed, check the application status:
  - A **green Synced** status indicates success.



  - If there are errors, click **Details-> Events** or **Logs** for troubleshooting.

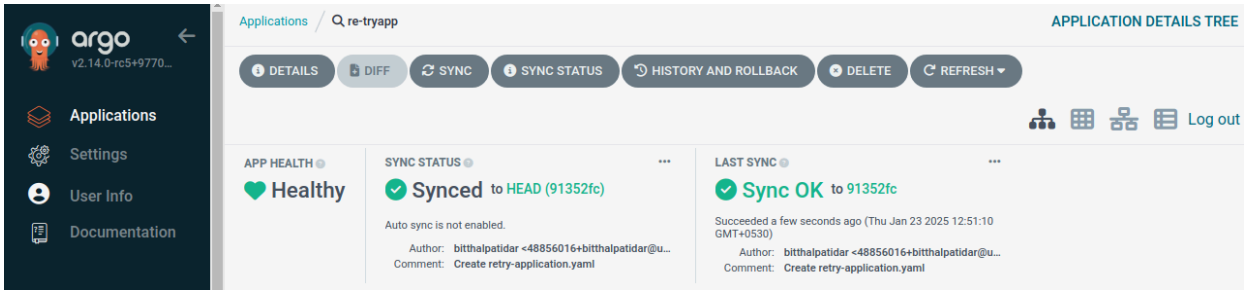




8. Refresh Application:

This fetches the latest state from the source repository.

- To manually refresh the application, click the **Refresh** button.



Important Note:

- If **Auto-Sync is Enabled** for the application, clicking **Refresh** will automatically apply changes from the source repository to the application. Ensure that this action is intentional before refreshing.

9. Perform Hard Refresh (If Needed)

- A **Hard Refresh** ensures the application state is reloaded from the Kubernetes cluster and reconciled with the source repository.
- Steps to Perform a Hard Refresh:
    - Locate the **Refresh** button on the application details page.
    - Click the dropdown arrow next to the **Refresh** button.
    - Select **Hard Refresh** from the options.
- **Use Case:** Perform a Hard Refresh if there are discrepancies between the displayed state and the actual state in the cluster, or if the application state isn't updated after a regular refresh.