

# Lab 8: End of Sprint Activities

**Estimated time needed:** 10 minutes

In this lab, you will close out the current sprint by moving done stories to closed, dealing with unfinished stories.

## Objectives

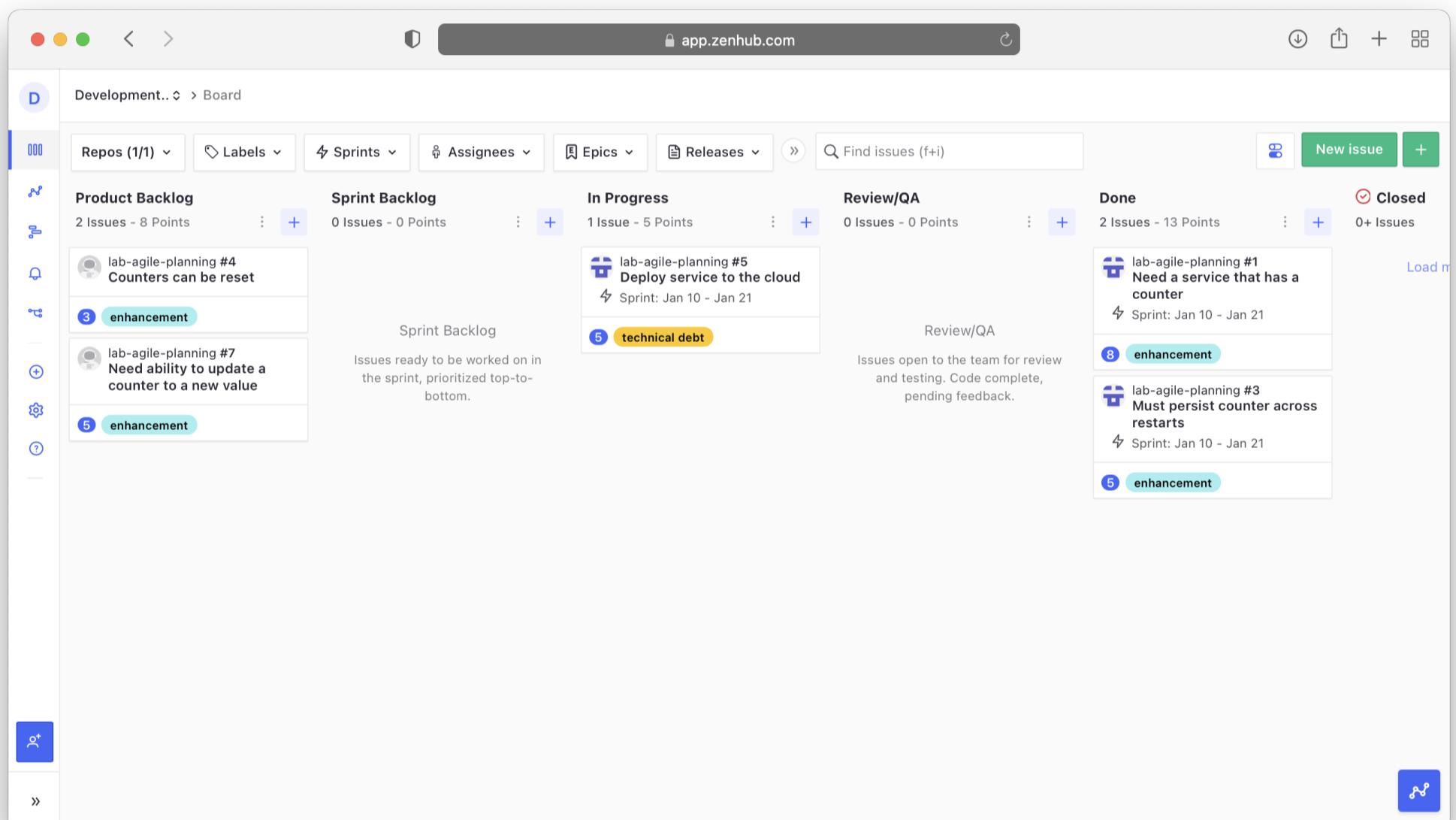
After completing this lab, you will be able to:

1. Determine which stories to close complete a sprint.
2. Deal with unfinished work.

## Exercise 1 : Move Done stories to Closed

In this exercise, you will move all of the done stories that the product owner has deemed completed at the sprint review to the Closed pipeline.

1. Go to [app.zenhub.com](https://app.zenhub.com) and sign in with your GitHub account and bring up your kanban board.



2. At the sprint review meeting, the product owner agreed that all of the stories that we demonstrated meet the definition of done, per the **Acceptance Criteria** in the **Issue** and can now be closed. Move all of the stories from the **Done** pipeline to the **Closed** pipeline.

The screenshot shows a Kanban board with five columns: Sprint Backlog, In Progress, Review/QA, Done, and Closed. The Done column contains two stories, and the Closed column contains three stories. Red arrows point from the Done column to the Closed column, indicating the movement of stories.

Sprint Backlog	In Progress	Review/QA	Done	Closed
0 Issues - 0 Points	1 Issue - 5 Points	0 Issues - 0 Points	2 Issues - 13 Points	0+ Issues
Sprint Backlog	Issues ready to be worked on in the sprint, prioritized top-to-bottom.	Review/QA	Issues open to the team for review and testing. Code complete, pending feedback.	Closed
bug #4 be reset	lab-agile-planning #5 Deploy service to the cloud Sprint: Jan 10 - Jan 21 technical debt		lab-agile-planning #1 Need a service that has a counter Sprint: Jan 10 - Jan 21 enhancement	Load more issues...
bug #7 o update a new value			lab-agile-planning #3 Must persist counter across restarts Sprint: Jan 10 - Jan 21 enhancement	

At the end of this exercise, your kanban board should look like this:

The screenshot shows the same Kanban board as above, but the Done column now contains zero stories, and the Closed column contains five stories. The stories from the Done column have been moved to the Closed column.

Sprint Backlog	In Progress	Review/QA	Done	Closed
0 Issues - 0 Points	1 Issue - 5 Points	0 Issues - 0 Points	0 Issues - 0 Points	2+ Issues
Sprint Backlog	Issues ready to be worked on in the sprint, prioritized top-to-bottom.	Review/QA	Done	Closed
bug #4 be reset	lab-agile-planning #5 Deploy service to the cloud Sprint: Jan 10 - Jan 21 technical debt	Issues open to the team for review and testing. Code complete, pending feedback.	lab-agile-planning #1 Need a service that has a counter Sprint: Jan 10 - Jan 21 enhancement	Load more issues...
bug #7 update a new value			lab-agile-planning #3 Must persist counter across restarts Sprint: Jan 10 - Jan 21 enhancement	

## Exercise 2 : Deal wth unfinished work

In this exercise, you will deal with the unfinished stories in the sprint. These are stories that the team has started, but not completed. We want to adjust the estimate to take credit for the story points expended so that it is reflected in the teams velocity, and create a new story to finish the work in the next sprint.

1. Select the story "Deploy service to the cloud" in the **In Progress** pipeline to open it.

The screenshot shows a ZenHub board with several pipelines: Sprint Backlog, In Progress, Review/QA, Done, and Closed. The In Progress pipeline has one issue: "lab-agile-planning #5 Deploy service to the cloud". This card is highlighted with a red box and a red arrow points from the text "Select to Open" to it. The card also contains a "technical debt" label. Below the board, there are sections for Sprint Backlog, Review/QA, and Done, each with their respective descriptions and counts of issues.

2. Click the Gear next to Estimate to open the dropdown.

The screenshot shows the details of the issue "Deploy service to the cloud" #5. It includes sections for Details and Assumptions, Acceptance Criteria, and Dependencies. On the right side, there is a sidebar with Pipelines, Labels, Assignees, and other metadata. The "Estimate" section is highlighted with a red box and a red arrow points from the text "Click Gear to open estimates" to the gear icon next to the estimate value.

3. The developer has determined that they did not expend **5** story points of effort on this story and just ran out of time. They estimated that **2** story points were expended. Select **2** from the dropdown list to change the story points to **2**.

The screenshot shows the ZenHub interface for the 'Deploy service to the cloud' issue. The 'Estimate' section on the right has a dropdown menu with the value '2' selected. A red box highlights this selection.

4. We can see that the story points are now set to **2**. Click the **X** to close the window.

The screenshot shows the ZenHub interface for the 'Deploy service to the cloud' issue after the estimate was changed. The 'Estimate' section on the right shows the value '2'. A red box highlights the 'X' button to close the window, and another red arrow points to the updated story points value of 2.

5. Now the story points have been adjusted to reflect the effort that was made in this sprint. Move this story to the **Closed** pipeline.

The screenshot shows a ZenHub board with four columns: Sprint Backlog, In Progress, Review/QA, and Done. A story titled "Deploy service to the cloud" is currently in the In Progress column. A red arrow points from the In Progress column towards the Closed column, indicating the movement of the story. The Done column contains two stories, one of which is highlighted with a yellow background and the label "technical debt".

6. We want to create a new story to document the remaining work. Press the **New Issue** button.

The screenshot shows the same ZenHub board interface as the previous step. A red box highlights the green "New issue" button located in the top right corner of the header bar. The board columns and stories remain the same as in the previous screenshot.

7. Since we know this new issue is going into the **Product Backlog** pipeline, click the gear icon next to **Pipelines** to open the dropdown list.

The screenshot shows the Zenhub web application. On the left, there's a board view for 'Development.. > Board' with sections like 'Sprint Backlog' and 'In Progress'. On the right, a 'Create a new Issue' dialog is open. At the top right of this dialog, there's a gear icon inside a red box. An arrow points from the text 'Click the Gear icon next to Pipelines' to this gear icon. Below the gear icon is a 'Pipelines' dropdown with the option 'New Issues' selected. To the right of the dropdown, there are several other settings: Labels (No Labels yet), Assignees (No one - assign yourself), Sprints (No sprint assigned), Estimate (with values 1, 2, 3, 5, 8, 13, 21), Epics (Not inside an epic), and Releases (Not inside a release). At the bottom right of the dialog are 'Cancel' and 'Submit new Issue' buttons.

8. Select **Product Backlog** from the dropdown list.

This screenshot continues from the previous one. The 'Create a new Issue' dialog is still open, and the 'Pipelines' dropdown has been expanded. A red box highlights the 'Product Backlog' option in the list. An arrow points from the text 'Select Product Backlog' to this highlighted option. The rest of the dialog and board view are identical to the previous screenshot.

9. Set the **Estimate** to **3**, which represents the remaining story points from the unfinished story. Set the label to **technical debt**, just like the original story.

The screenshot shows the Zenhub interface for creating a new issue. On the left, there's a board view with a Sprint Backlog section. The main area is a 'Create a new Issue' form. In the 'Labels' section, a yellow button labeled 'technical debt' is highlighted with a red box. In the 'Estimate' section, the value '3' is highlighted with a red box. Red arrows point from the text instructions to these specific fields.

10. Fill in the new issue with the remaining details to complete the story. (*Hint: You may want to copy and paste some details from the unfinished story as a starting point.*) When completed, press the **Submit new Issue** button.

The screenshot shows the 'Create a new Issue' form with the following details filled in:

- Issue title:** Complete Deploy Service to the Cloud
- Write section content:**
  - \*\*As a\*\* Service Provider.
  - \*\*I need\*\* the service to be deployed to the cloud.
  - \*\*So that\*\* I can scale capacity with user demand
  - ### Details and Assumptions
    - Artifacts for Cloud Foundry app have already been created in branch 'cf-deploy'
    - [] Database still needs to be provisioned
    - [] App needs to be pushed and connected to the database
  - ### Acceptance Criteria
    - ```gherkin Given I have deployed to the cloud When a customer comes to our URL Then our service will be available

A red box with the number '1' highlights the 'Issue title' field. A red box with the number '2' highlights the 'Submit new Issue' button at the bottom right.

11. Be sure the story is at the top of the **Product Backlog** pipeline to be selected for the next sprint.

The screenshot shows a Kanban board interface with the following columns and their current states:

- Icebox:** 2 Issues - 0 Points
- Product Backlog:** 3 Issues - 11 Points
  - lab-agile-planning #8: Complete Deploy Service to the Cloud (highlighted with a red box and arrow)
  - lab-agile-planning #4: Counters can be reset
  - lab-agile-planning #7: Need ability to update a counter to a new value
- Sprint Backlog:** 0 Issues - 0 Points
- In Progress:** 0 Issues - 0 Points
- Review/QA:** 0 Issues - 0 Points
- Done:** 0 Issues - 0 Points

A red box highlights the first item in the Product Backlog column, and a red arrow points from it to a red callout box containing the text: "Story should be at the top of the Product Backlog".

Congratulations! You can completed all of the end of sprint activities.

## Summary

You learned how to conduct the activities required to close out a sprint. You moved done stories to closed, adjusted unfinished stories to reflect the true effort, and created new stories to document the remaining work. ZenHub will automatically close the sprint when its end date has expired so there is nothing for you to do there. *Bonus: After the end of sprint date is passed, you might want to go back and look at your Velocity chart under Reports to see the teams velocity reflected in the chart.*

## Author(s)

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## Changelog

Date	Version	Changed by	Change Description
2021-08-08	0.1	John Rofrano	Initial version created
2022-01-14	0.2	John Rofrano	Removed Milestones