Pipeline 2.0
User Guide

Team Superpipe

Getting Started

Environment Requirements
- Bamboo version: 5.5.1 or higher
- Supported browser:
  - Chrome 36.0 or higher
  - Firefox 29.0 or higher
  - Safari 7.0 or higher for mac
 - Internet Explorer 9.0 or higher

Other Requirements
- To see contributor's profile picture:
  1. Create an application link to JIRA. Be sure to make your JIRA application link primary if you have multiple application links. For more instruction on creating application links, click **here**.
  Important: Users must have the same username (case sensitive) in both Bamboo and JIRA in order to display the correct profile picture.
  2. Link authors to users in Bamboo. Click **here** for more information.
  3. Make sure that you log in to JIRA while you're viewing the Pipeline board.

Installation
1. Log into your Bamboo instance as an admin.
2. Click the admin dropdown and choose **Atlassian Marketplace**.
   The Manage add-ons screen loads.
3. Click **Find new add-ons** from the left-hand side of the page.
4. Locate **Pipeline Plugin - Bamboo** via search.
   The appropriate add-on version appears in the search results.
5. Click **Install** to download and install your add-on.
6. Create an application link to JIRA. Be sure to make your JIRA application link **primary** if you have multiple application links. For more instructions on creating application links, click **here**.
7. You're all set!
   Click Close in the Installed and ready to go dialog.

Using Pipeline

Open Pipeline Wallboard
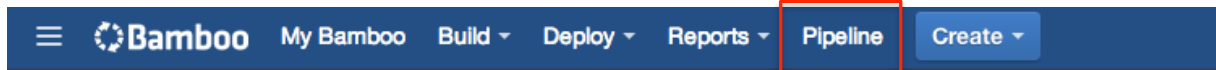
After you successfully install Pipeline, you can find a "Pipeline" button on the top menu. Click on it and you'll see the Pipeline Wallboard.

Pipeline Wallboard orders all plans based on their last action time while keeping in progress and queued builds on the top. It updates when any plan builds, but for configuration action like adding/deleting plans, it reflect within half an hour.

Board Content
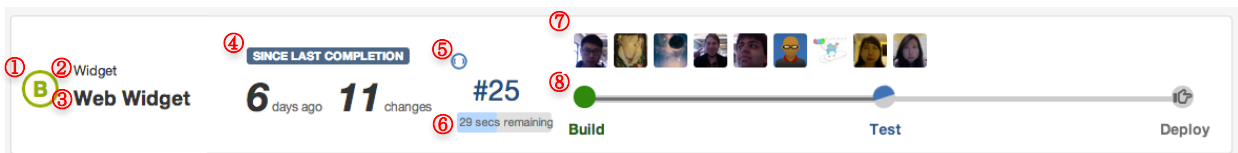
① **Uptime Grade**

Grade calculated by uptime percentage.
Click on it to see more details.

Uptime Grade Scale

Grade	Uptime Percentage
A	90% - 100%
B	80% - 90%
C	70% - 80%
D	60% - 70%
F	< 60%
--	No build yet

*What is **Uptime Percentage**?*
Uptime Percentage is the total success time duration divided by total time duration from the first build to current. Total success time means the sum of time interval since every successful build until a fail build ignoring all queued build (build never starts). It represents the successful time interval of a build and encourages quick fix after a failure.

② Project Name

Click on it to open Bamboo page for this project.

③ Plan Name

Click on it to open Bamboo page for this plan.

④ Information Since Last Completion

Days and changes since last completion.
You may also see its label changes into this:

It means that current build is a completion. It shows the changes between current completion and last completion and days since current completion to now.

*What is **Last Completion**?*
Last Completion is the most recent successfully completed build (a build with all stages completed successfully) except for the current one. You may see "-- days ago" for some projects, which means that there are no successfully completed builds before current one.

⑤ Current Build

Displays the current build number and build status. You may see "--" from some project, which means there's no build for this project. Click on the build number to open Bamboo page for this build.

Possible icon and build statuses
(Icons are taken from Bamboo and with same meaning in Bamboo)

Icon	Build Status
⊘	Successfully Completed
⊙	Successfully Encounter Manual Stage
⊙	Failed
◌	In Progress
⊙	Queued
⊖	No Current Build

⑥ **Progress bar**

Shows the progress of the current build if it's in progress or in queue. The estimation is from Bamboo and is basically based on previous build time.

⑦ **Contributors**
- Displays a list of contributors who committed to this project since last completion. Contributors are ordered based on their last committed time. One with more recent committed time will be at left. Tie breaks with number of commits (one with more commits will be at left).
- Contributors' photos are from JIRA
- Hover over the contributors' photos to see their full names.

NOTE: Check the Other Requirements section to learn how to get Contributors' photos set

⑧ **Build Pipeline**

Displays stages' names and statues within the current build.

Possible icon and stage statuses

Icon	Stage Status
🟢	Successful
🔵	In Progress
🔴	Failed
👉	Manual Stage
⚪	Not Reached Yet

Pipeline Rating & Completed Pipelines History

Click on the grade label to get a popup window to view all completed pipelines and detailed pipeline rating.

① List/Table View Sidebar

Provide easy copying.

Click on [⊞] to get the table view like this:

Click on [🗐] to select the table and you can copy it to anywhere you want.

Click on [☰] to go back to the list view.

② Completed Pipelines History

It lists all the completed pipelines for the plan in Bamboo.

- Click the build numbers to view the completed build
- Also show the completed date, number of commits and contributors within this completion

③ Pipeline Rating

It lists some statistics that refers to continuous delivery practice.

Example to Illustrate Completions and Stats

Completed Pipelines History

Completions	Number of Commits
#2	0 (~#1) $+ 2$ (#1~#2) $= 2$
#5	3 (#2~#3) $+ 5$ (#3~#4) $+ 1$ (#4~#5) $= 9$
#8	3 (#5~#6) $+ 2$ (#6~#7) $+ 4$ (#7~#8) $= 9$

***NOTE**: Contributors for completions are the authors of the commits.*

Calculation of Pipeline Rating

Statistics	Description	Calculation
Uptime Percentage	Percentage of total time duration of successful builds *(ignore never started ones)*	$\dfrac{1 \text{ (#2~#3)} + 2 \text{ (#3~#4)} + 2 \text{ (#5~#7)} + 2 \text{ (#8~#9)} + 1 \text{ (#9~current)}}{11 \text{ (#2~current)}} = 73\%$
Success Percentage	Percentage of total non-fail builds *(ignore never started ones)*	$5 / 7 = 71\%$
Avg. Days per Completion	Average days between two successfully completed pipelines	11 (#1~#9) $/ 3 = 3.7$
Avg. Commits per Completion	Average commits between two successfully completed pipelines	20 (~#9) $/ 3 = 6.7$

Changes List

Click on the number of changes of each project to get a popup window to view all changes since the most recent completion before the current build.

① **List/Table View Sidebar**

  Provide easy copying.
  Click on ⊞ to get the table view like this:

Click on ⬚ to select the table and you can copy it to anywhere you want.
Click on ☰ to go back to the list view.

② Contributor photo

Need AppLink to JIRA to see it.

③ Comment, Revision Id & Changed files

Hover on ⬜ to view the list of changed files.

④ Contributor name & Commit date

Use the linked full user name if the author is linked to an user in Bamboo; otherwise, use the author name.

Sidebar
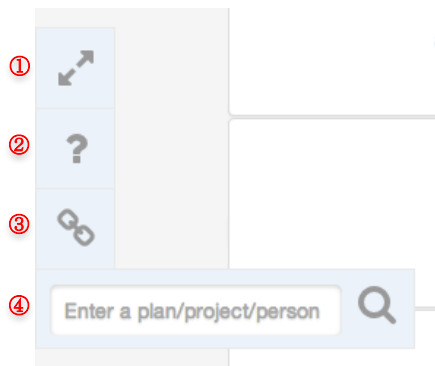
① Hide/Show Top Menu

When the top menu is hidden, clicking on projects, plans and builds will pop up the Bamboo page in a pop-up window instead of redirecting to the Bamboo page.

② About Pipeline

Includes Pipeline documentation, our product and develop websites. If you have any interests or concerns, you can find us here.

③ Link Result Copy

Copy a link of the plans on your dashboard now. Send this link to others and they can view the same pipelines as you.

After you open your link in your browser, you can delete the query in the search bar to go back to the whole wallboard.

NOTE: *Selected plans are still live updating, it just provides a simple way to share plans you want to watch with others.*

④ **Quick Keyword Search**

A simple filter to find plans, projects or persons with given keyword.

FAQ

- **Why aren't my user pictures displaying?**
  User pictures are taken from the user's JIRA profile, which requires Atlassian AppLink. For instructions on how to set up application links, click here. For instructions on how to link authors to users in Bamboo, click here. Make sure you are logged in to JIRA and set your JIRA application link to primary if you have multiple application links.
  Important: *Users must have the same username (case sensitive) in both Bamboo and JIRA in order to display the correct profile picture.*

- **How can I filter the list of builds shown on the page?**
  You can hover over the magnifying glass in the left-hand menu and choose to view by project, plan, or contributor name, all sorted in order of recency.

- **Why is there a hand in one of the stages of my build?**
  No worries, that simply means your build has been set up to pause at that stage and requires manual assistance to continue.

- **What does last completion mean?**
  It's the most recent successfully completed build (a build with all stages completed successfully) except the current one.

- **Why is my Days Since Last Completion a "--"?**
  "--" means that there are no successfully completed builds before current one.

- **Why does Pipeline indicate there's no last completion after cleaning up my builds?**
  Pipeline can only detect builds in the database; cleaned up builds won't be recognized. We recommend you label your recent successfully completed build and keep it when you clean your build data.

- **Why do I get "Page not found" when I click on the Pipeline button?**
  There are several reasons for this. Most likely you don't have your Bamboo instance upgraded to 5.5.1. Please check our **requirements page**.

- **Do users need to be logged in to Bamboo view Pipeline board?**

Yes, users will need to be logged in use the board.

- **Why do the contributors' photos still "blue unrecognized" after I set up the app link?**
Check that the author name (or username if you linked authors with users) matches the JIRA username. Then make sure you logged in to JIRA while you're viewing the page. If it's still not showing, try cleaning your cache/cookies in your browser or try a force refresh.

- **How does Pipeline calculate the grade?**
The grade is based on the uptime percentage and using the following scale.

Grade	Uptime Percentage
A	90% - 100%
B	80% - 90%
C	70% - 80%
D	60% - 70%
F	< 60%
--	No build yet

- **What is uptime percentage?**
Uptime Percentage is the total success time duration divided by total time duration from the first build to current. Total success time means the sum of time interval since every successful build until a fail build ignoring all queued build (build never starts). It represents the successful time interval of a build and encourages quick fix after a failure.