

Bamboo Pipeline Setup

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Build plan

a. Run agent by downloading and running “java -jar /home/ec2-user/atlassian-bamboo-agent-installer-5.13.2.jar <http://ip:8085/agentServer/>”

Installing a remote agent

To install a remote agent, please follow these instructions:

1. Ensure that you have Java Runtime Environment 8.0 or later installed on the agent machine.
2. Download the remote agent JAR file to a directory on the agent machine.



Running a remote agent

Once installed, you can run the remote agent by executing the following command line from the directory containing the remote agent jar file:

```
java -jar atlassian-bamboo-agent-installer-5.13.2.jar http://52.53.228.239:8085/agentServer/
```

This will start a service wrapper for your agent, which will automatically restart in case of failure. You may also add extra system properties like `-Dbamboo.home=...` to customise the agent's home location. For more information, see our [Bamboo remote agent installation guide](#).

Running the agents without the service wrapper

For customers wanting to run the Bamboo agent without the service wrapper, the direct agent jar is available at [bamboo-agent-5.13.2.jar](#). For more information about using the JAR directly please consult [our documentation](#).

Figure 1: Agent installation

b. Configure maven in a bin/configuration (create `bamboo-capabilities.properties` file) file under `/root/bamboo-agent-home/bin`.
<https://confluence.atlassian.com/bamboo/configuring-remote-agent-capabilities-using-bamboo-capabilities-properties-289276849.html>

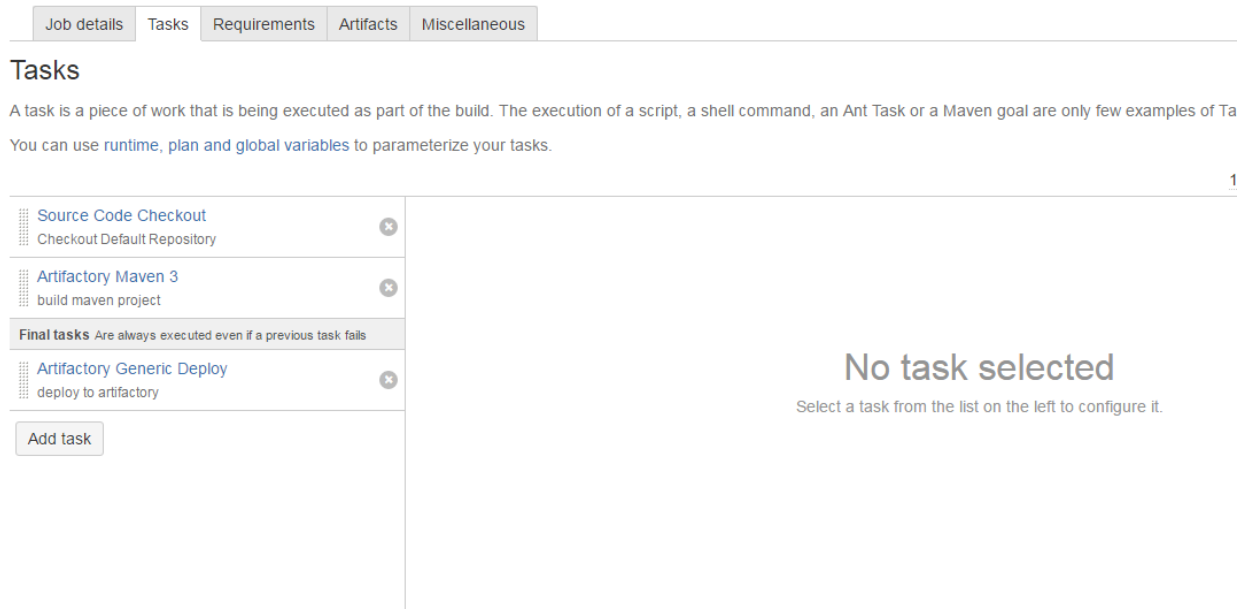


Figure 2: Build config

Deployment setup:

a: Under create/create deployment project.



Figure 3: Deployment project

b. Link build plan to Deployment project:

Update deployment project

How deployments work

A deployment project defines which build plan you get your artifacts from, and contains the environments you want to deploy to.

Deployment project details

Name *

ARTI

Description

Link to build plan

How deployment releases work

Shared artifacts of the selected plan will be bundled into releases. Releases will be deployed to the environments.

Build plan *

Artifactory_Demo > Artifactory_Demo_PLAN

Start typing the plan name or use the down arrow to select a plan. The selected plan will be used as the source for artifacts that will be deployed as a release.

☒ Use the main plan branch

Currently

master

☐ Use a custom plan branch

Save deployment project

Cancel

Figure 4: Configuration of deployment project

c. Name environment as DEV/QA/PROD.

d. Declare stages:

Update tasks: DEV

[How deployment tasks work](#)

What tasks need to happen to make this deployment a success

1 agent has the [capabilities](#) to deploy this environment

Clean working directory task

Artifact download

Download release contents

SCP Task

Release

Final tasks Are always executed even if a previous task fails

Drag tasks here to make them final

Add task

No task selected

Select a task from the list on the left to configure it.

Back to deployment project

Continuous integration powered by Atlassian Bamboo version 5.13.2 build 51316 - 28 Sep 16

Figure 5: Configuration of Deployment stages

e. SCP task copies artifacts to Mule server:

Update tasks: Dev View deployment details

What tasks need to happen to make this deployment a success 1 agent has the [capabilities](#) to deploy this environment

Clean working directory task

Artifact download
Download release contents

SCP Task
Release

Final tasks
Are always executed even if a previous task fails

Drag tasks here to make them final

Add task

SCP Task configuration

[How to use the SCP task](#)

Task description

☐ Disable this task

Host*

Hostname or IP address of the remote host

Username*

Username you want to use to access the remote host

Authentication Type*

☐ Change SSH Key

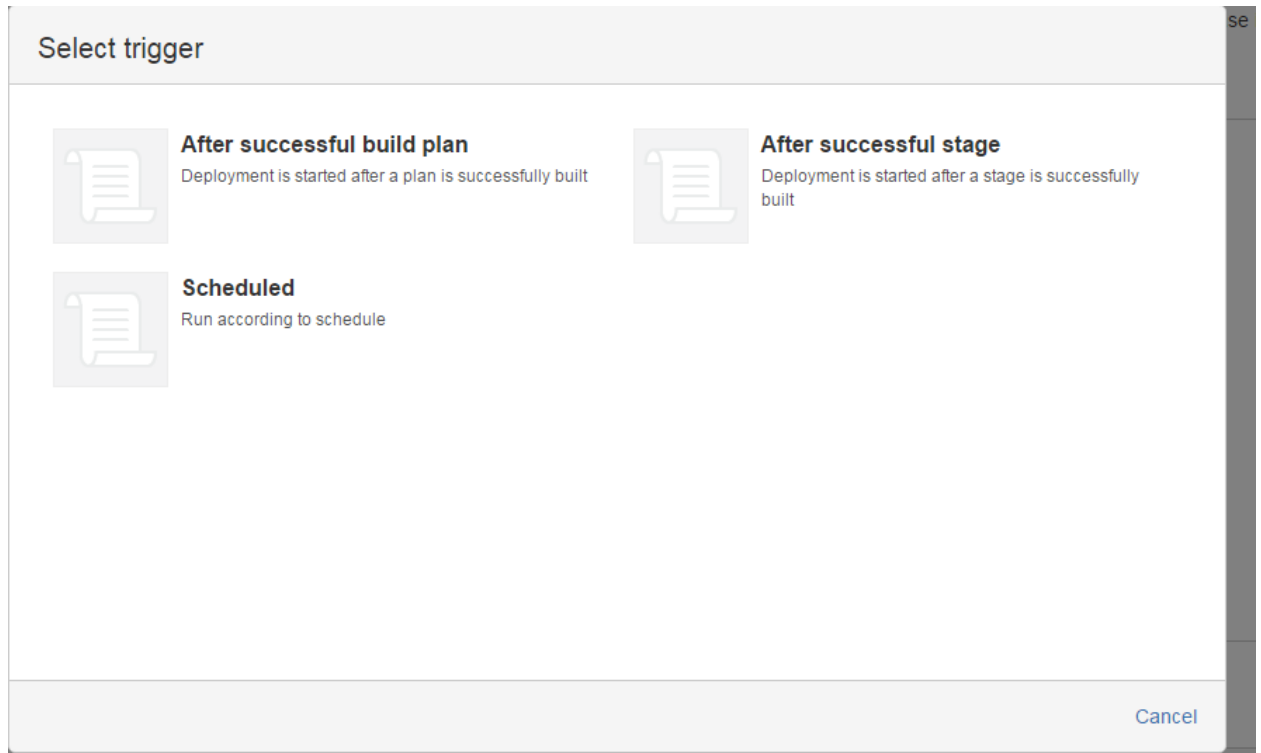
Artifact

Remote Path

Advanced Options

Figure 6: SCP details

f. Configure trigger for deployment:



The screenshot shows a 'Select trigger' dialog box with a light gray header and a white body. The header contains the text 'Select trigger'. The body contains three options, each with a document icon and a description:

- After successful build plan**
Deployment is started after a plan is successfully built
- After successful stage**
Deployment is started after a stage is successfully built
- Scheduled**
Run according to schedule

A 'Cancel' button is located in the bottom right corner of the dialog box.

Figure 7: Trigger setup

g. Run deployment.

Setting of pipeline to push code from DEV to QA:

a. Logical trigger point to deploy DEV code to QA environment would be “verification of functional test results deployed in DEV”. We have tried to achieve that using bamboo trigger events and components. Snippet below shows script which checks “http:status code only if it’s values comes as ‘200’ DEV deployment stages would be marked completed else scripts throws error”.

The screenshot shows the Bamboo web interface for Build #13. A green banner at the top states "#13 was successful – Manual run by Hydro POC". Below this, the "Build result summary" is displayed. On the right, a table titled "Included in deployment project" shows the deployment status for two environments:

Environment	Status	Actions
DEV	SUCCESS	
QA	SUCCESS	

A yellow arrow points from the "DEV" status to the "QA" status, indicating the deployment flow. A red arrow points from the "QA" status to the "QA" environment name in the table.

Figure 8: Showing pipeline

The screenshot shows the "Configuration: Channel_Demo" page in Bamboo. Under the "What you want to deploy" section, the source build plan is "Channel_Demo > channelcommunitiesmanagement" and the available artifacts are "zip". Below this, there are two environment entries:

- Environment: DEV (with a green checkmark icon)
- Environment: QA (with a green checkmark icon)

Each environment entry has a "Deploy" button and an "Edit..." link. At the bottom, there is a "+ Add environment" button.

Figure 9: Showing two environment setup

What tasks need to happen to make this deployment a success

2 agents have the capabilities to deploy this environment

Clean working directory task

Artifact download

Download release contents

SCP Task

Script

Final tasks Are always executed even if a previous task fails

Drag tasks here to make them final

Add task

Script configuration

Task description

☐ Disable this task

Interpreter

/bin/sh or cmd.exe

Run your script with /bin/sh or cmd.exe

Script location

Inline

Script body*

```
1 res=$(curl -X GET -s -o /dev/null -I -w "%{http_code}" "http://52.53
2 echo "result is: $res"
3 if [ $res -eq 200 ];
4 then
5     echo "result is $res on request"
6 else
7     cd 123
8 fi
```

Figure 10: Functional verification step

Environment: QA

Deploy

Actions

Minimise

How you want to deploy

Tasks define the steps involved in deploying a release to the environment.

Edit tasks

Other environment settings

These settings are not strictly necessary for your deployment to run, but they can be very helpful and allow you to make Bamboo deployments go just right.

Triggers 1

Agents assignment

Notifications 0

Variables 0

Environment permissions

+ Add environment

Figure 11: QA environment setup

Edit triggers: QA [How deployment triggers work](#)

Set triggers to specify how and when the deployment will be triggered automatically. When a deployment is automatically triggered, a new release is created from the latest successful build result of the linked plan.
If you want to deploy to this environment manually, use the "Deploy" action at any time.

After successful deployment
[Add trigger](#)

Trigger configuration
Trigger description

☐ Disable this trigger
Triggering environment*
DEV
[Save trigger](#) [Cancel](#)

Figure 12: QA environment trigger