

Bamboo Remote Agent 설정

이 문서는 Bamboo에서 remote agent를 설정하는 방법에 대한 정보를 공유하기 위해 작성되었다.

- 1. [Remote agent support 활성화](#)
- 2. [Remote agent 다운로드](#)
- 3. [Remote agent 실행](#)
- 4. [Remote agent의 capabilities 구성](#)

1. Remote agent support 활성화

만약 Remote agent support가 활성화되어 있지 않다면, 다음 절차를 통해 활성화한다.

- 상단 Bamboo Administration > Overveiw 클릭
- 왼쪽 패널에서 Agents 메뉴 클릭
- Enable Remote Agent Support 클릭

2. Remote agent 다운로드

먼저 Remote Server에서 "bamboo-agent-home"과 같은 디렉토리를 생성한다.

Agent 설치 파일을 다운로드 받기 위해 다음 절차를 수행합니다.

- 상단 Bamboo Administration > Overveiw 클릭
- 좌측 패널에서 Agents 메뉴 클릭
- 우측 상단 Install remote agent 메뉴를 클릭

The screenshot shows the Bamboo administration interface. The top navigation bar includes 'Bamboo', 'My Bamboo', 'Projects', 'Build', 'Deploy', 'Reports', and a 'Create' dropdown. A search bar and user profile icon are on the right. The left sidebar lists various administration categories: BUILD RESOURCES (Agents, Agent matrix, Executables, JDKs, Server capabilities, Global variables, Linked repositories, Shared credentials, Repository settings), ELASTIC BAMBOO (Configuration), PLANS (Concurrent builds, Quarantine settings, Expiry, Bulk action, Build monitoring, Remove plans, Move plans, Bulk edit plan permissions, Artifact handlers, Quick filters), and SECURITY (Users).

Bamboo administration

Agents summary

[Add local agent](#) [Enable security token verification](#) [Install remote agent](#)

An agent is a service that executes Bamboo builds and deployments. You can use this page to view, add and delete agents. You can also use this [matrix](#) to determine which agents can execute which build plans.

Local agents

[Server capabilities](#)

Local agents run on the Bamboo server.

Select: [All](#), [None](#), [Idle](#), [Disabled](#) Action: [Delete](#) [Disable](#) [Enable](#)

Agent	Status	Operations
<input type="checkbox"/> Agent A DEDICATED	Idle	View Edit
<input type="checkbox"/> Agent B	Idle	View Edit
<input type="checkbox"/> Agent C	Idle	View Edit

Remote agents

[Shared remote capabilities](#) | [Disable remote agent support](#) | [Disable remote agent authentication](#)

Remote agents run on computers other than the Bamboo server.

[Online remote agents](#) [Offline remote agents](#) [Agent authentication](#)

There are currently no online remote agents configured on this Bamboo instance.

아래와 같이 Installing a remote agent 라는 페이지가 나오면 DOWNLOAD 버튼을 클릭하여 atlassian-bamboo-agent-installer-version.jar를 다운로드 받는다.

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Installing a remote agent

To install a remote agent, please follow these instructions:

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

DOWNLOAD Remote Agent JAR

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-6.6.0.jar https://bamboo.almdemo.curvc.com/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](#).

Using remote agents with a self-signed certificate

If your Bamboo server uses SSL (https) with a self-signed certificate, you will need to do one of the following:

- Add the option `-Dbamboo.agent.ignoreServerCertName=true` to the remote agent's command line, for example:

```
java -Dbamboo.agent.ignoreServerCertName=true -jar atlassian-bamboo-agent-installer-6.6.0.jar https://bamboo.almdemo.curvc.com/agentServer/
```

Please be aware that this reduces the security of your configuration, as the identity of your Bamboo server will not be verified by the remote agent.

- Use the [keytool](#) utility to add the self-signed certificate to the trusted certificates in your keystore. This is a more secure option.

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-6.6.0.jar](#). For more information about using the JAR directly please consult [our documentation](#).

3. Remote agent 실행

다운로드 받은 파일을 remote server로 이동하여 아래 명령을 cmd 창에서 수행한다.

```
java -jar atlassian-bamboo-agent-installer-6.0.5.jar https://bamboo.curvc.com/agentServer/
```

Bamboo server의 Agents 메뉴에서 Remote agents > Agent authentication에서 해당 remote agent의 접근을 허용한다.

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Agents summary

Add local agent

Enable security token verification

Install remote agent

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Local agents

Local agents run on the Bamboo server.

Select: [All](#), [None](#), [Idle](#), [Disabled](#) Action:

Delete

Disable

Enable

Agent	Status	Operations
<div><input type="checkbox"/> Agent A</div> <div>DEDICATED</div>	<div>Idle</div>	<div>View Edit</div>
<div><input type="checkbox"/> Agent B</div>	<div>Idle</div>	<div>View Edit</div>
<div><input type="checkbox"/> Agent C</div>	<div>Idle</div>	<div>View Edit</div>

Remote agents

Remote agents run on computers other than the Bamboo server.

Online remote agents

Offline remote agents

Agent authentication

Below is a list of IP addresses and corresponding unique ids. You may approve agents pending approval or revoke approval from previously approved agents.

Select: [All](#), [None](#), [Waiting](#), [Approved](#) Action:

Approve access

Revoke access

IP address	Agent unique ID	Status	Operations
<div><input type="checkbox"/> 10.0.0.4,10.0.0.1</div>	397cd665-871d-463c-bdce-32de32b8e69c	Waiting	<div>Approve access</div>
<div><input type="checkbox"/> 10.0.*</div>	b369d203-dccb-4c14-9002-69fc2dfa6fd7	Approved	<div>Revoke access Edit IP address</div>

Remote server에서 인증을 통과하는지를 점검한다.

```
C:\Windows\System32\cmd.exe - java -jar atlassian-bamboo-agent-installer-6.6.0.jar https://bamboo.almdemo.curvc.com/agentServer/
INFO | jvm 1 | 2018/12/06 11:18:12 | 2018-12-06 11:18:12,074 INFO [WrapperSimpleAppMain] [RemoteAgentHomeLocatorFor
Bootstrap] Using agent home located at [C:\Users\Wcsnopy\Wbamboo-agent-home]
INFO | jvm 1 | 2018/12/06 11:18:12 | 2018-12-06 11:18:12,074 INFO [WrapperSimpleAppMain] [RemoteAgentHomeLocatorFor
Bootstrap] Using agent home located at [C:\Users\Wcsnopy\Wbamboo-agent-home]
INFO | jvm 1 | 2018/12/06 11:18:12 | 2018-12-06 11:18:12,199 INFO [WrapperSimpleAppMain] [AgentUidInitializer] Gen
erating new UUID for this agent: 397cd665-871d-463c-bdce-32de32b8e69c
INFO | jvm 1 | 2018/12/06 11:18:12 | 2018-12-06 11:18:12,230 INFO [WrapperSimpleAppMain] [AgentContext] Requesting
fingerprint, url: https://bamboo.almdemo.curvc.com/agentServer/GetFingerprint.action?hostName=TWSVRDB4&version=3&agentUu
id=397cd665-871d-463c-bdce-32de32b8e69c
INFO | jvm 1 | 2018/12/06 11:18:12 | 2018-12-06 11:18:12,246 INFO [WrapperSimpleAppMain] [RemoteAgentHttpClientFact
ory] Creating a new HTTP client...
INFO | jvm 1 | 2018/12/06 11:18:13 | 2018-12-06 11:18:12,980 INFO [WrapperSimpleAppMain] [AgentContext] Authenticat
ing against Bamboo server at https://bamboo.almdemo.curvc.com/agentServer/
INFO | jvm 1 | 2018/12/06 11:18:14 | 2018-12-06 11:18:14,042 WARN [WrapperSimpleAppMain] [AgentContext]
INFO | jvm 1 | 2018/12/06 11:18:14 |
INFO | jvm 1 | 2018/12/06 11:18:14 | *****
**
INFO | jvm 1 | 2018/12/06 11:18:14 | *
INFO | jvm 1 | 2018/12/06 11:18:14 | * This agent requires manual approval.
INFO | jvm 1 | 2018/12/06 11:18:14 | * UUID: 397cd665-871d-463c-bdce-32de32b8e69c
INFO | jvm 1 | 2018/12/06 11:18:14 | * Message from the server is:
INFO | jvm 1 | 2018/12/06 11:18:14 | * Approve this agent at 'https://bamboo.almdemo.curvc.com/admin/agent/viewAgen
ts.action?focusUid=397cd665-871d-463c-bdce-32de32b8e69c&selectedTab=Agent+authentication'. Check that the IP is correct
INFO | jvm 1 | 2018/12/06 11:18:14 | * Next authentication attempt in 60 seconds...
INFO | jvm 1 | 2018/12/06 11:18:14 | *
INFO | jvm 1 | 2018/12/06 11:18:14 | *****
**
INFO | jvm 1 | 2018/12/06 11:18:14 |
```

4. Remote agent의 capabilities 구성

Agents 메뉴에서 Remote agents 영역에 Agent가 등록되었는지를 확인한다. Agent에 Capability를 추가하기 위해 해당 Agent의 이름을 클릭한다.

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Agents summary Add local agent Enable security token verification Install remote agent

An agent is a service that executes Bamboo builds and deployments. You can use this page to view, add and delete agents. You can also use this [matrix](#) to determine which agents can execute which build plans.

Local agents Server capabilities

Local agents run on the Bamboo server.

Select: [All](#), [None](#), [Idle](#), [Disabled](#) Action: Delete Disable Enable

Agent	Status	Operations
<input type="checkbox"/> Agent A DEDICATED	Idle	View Edit
<input type="checkbox"/> Agent B	Idle	View Edit
<input type="checkbox"/> Agent C	Idle	View Edit

Remote agents Shared remote capabilities Disable remote agent support Disable remote agent authentication

Remote agents run on computers other than the Bamboo server.

Online remote agents Offline remote agents Agent authentication

There is currently 1 remote agent online.

Select: [All](#), [None](#), [Idle](#), [Disabled](#) Action: Delete Disable Enable

Agent	Status	Operations
<input type="checkbox"/> TWSVRDB4	Idle	View Edit

Dec 6, 2018 11:19:23 AM A remote agent is loading on TWSVRDB4 (10.0.0.4).
Dec 6, 2018 11:20:14 AM Remote agent "TWSVRDB4" has registered.

These are live logs that are refreshed every 10 seconds, you will need to refresh the page to see any other updates.

Agent summary가 나타나면, 현재 Executable을 확인하고 새로운 Capability를 추가하기 위해 Add capability 링크를 선택한다.

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Agents summary > TWSVRDB4 (Remote)

Remote agent on host TWSVRDB4

Information

0%
0 / 0 successful

Current status Idle

Last status update 06 Dec 2018, 11:22:14 AM (2 seconds ago)
Time at which the Bamboo server last confirmed the status of this agent.

Last startup time Dec 6, 2018 11:20:14 AM

Up time 2 minutes

View recent activity Edit details Dedicate agent Disable Request agent stop Delete

Capabilities Executable jobs Executable deployment environments System properties Audit logs System errors

Agent-specific capabilities [Add capability](#)

A capability is a feature of an agent.

The following capabilities are specific to this agent:

Executable [Add Executable](#)

'executable' capabilities define the executables which are available to your build plans.

Executable label	Path	Operations
A label to uniquely identify this executable	Please enter the path to your executable	
MSBuild v4.0 (32bit) (MSBuild)	C:\Windows\Microsoft.NET\Framework\v4.0.30319\MSBuild.exe	View Edit Delete
MSBuild v4.0 (64bit) (MSBuild)	C:\Windows\Microsoft.NET\Framework64\v4.0.30319\MSBuild.exe	View Edit Delete

JDK [Add JDK](#)

'JDK' capabilities define the JDKs which are available to your build plans.

JDK label	Java home	Operations
JDK	C:\Program Files\Java\jre1.8.0_191	View Edit Delete
JDK 1.8	C:\Program Files\Java\jre1.8.0_191	View Edit Delete

아래는 Maven capability를 추가하는 예제를 보여준다. 아래와 같이 Local Agent 구성때와 동일하게 정보를 입력한다.

- Capability type : Executable 선택
- Type : Maven 3.x 선택
- Executable label : apache-maven-3.6.0
- Path : C:\Atlassian\Bamboo\apache-maven-3.6.0

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Add capability - TWSVRDB4

You can add an agent-specific capability on this page. The value of this capability will override the value of a shared capability of the same name (if one exists).

Capability type

Type

Executable label
A label to uniquely identify this executable

Path
Please enter the path to your executable

[Add](#) [Cancel](#)

다음 그림과 같이 추가한 capability를 확인한다.

Bamboo administration

Agents summary > TWSVRDB4 (Remote)

Remote agent on host TWSVRDB4

Information

0%
0 / 0 successful

Current status Idle

Last status update 06 Dec 2018, 11:25:14 AM (6 seconds ago)
Time at which the Bamboo server last confirmed the status of this agent.

Last startup time Dec 6, 2018 11:20:14 AM

Up time 5 minutes

View recent activity | Edit details | Dedicate agent | Disable | Request agent stop | Delete

Capabilities | Executable jobs | Executable deployment environments | System properties | Audit logs | System errors

Agent-specific capabilities [Add capability](#)

A capability is a feature of an agent.
The following capabilities are specific to this agent:

Executable [Add Executable](#)

'executable' capabilities define the executables which are available to your build plans.

Executable label A label to uniquely identify this executable	Path Please enter the path to your executable	Operations
MSBuild v4.0 (32bit) (MSBuild)	C:\Windows\Microsoft.NET\Framework\v4.0.30319\MSBuild.exe	View Edit Delete
MSBuild v4.0 (64bit) (MSBuild)	C:\Windows\Microsoft.NET\Framework64\v4.0.30319\MSBuild.exe	View Edit Delete
apache-maven-3.6.0 (Maven 3.x)	C:\Atlassian\Bamboo\apache-maven-3.6.0	View Edit Delete

Bamboo administration > Executables 에서 추가한 capability 구성을 확인한다.

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Executables

The following table lists the executables that have been defined as capabilities in Bamboo. You can add an executable as a server capability on this page (shared by all local agents), or delete any of the existing executable capabilities listed. An executable can only be added as an agent-specific capability on that agent's page.

MSBuild v4.0 (32bit) (MSBuild)

MSBuild v4.0 (64bit) (MSBuild)

apache-maven-3.6.0 (Maven 3.x)

maven (Maven 3.x)

sonar-scanner (Sonar Scanner Home)

apache-maven-3.6.0

Rename capability

The screen shows the summary of a capability. You can see which jobs have a requirement on this capability and which agents have the capability.

Capability configuration

Local repository No

Isolation

Edit capability configuration

Agents

Elastic image configurations

Jobs

Deployment environments

The following agents have this capability.

Agent	Path	Operations
TWSVRDB4	C:\Atlassian\Bamboo\apache-maven-3.6.0	Edit Delete

최종 해당 capability를 사용하여 빌드가 잘되는지 확인한다.

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