


# MSBuild Action

 The MSBuild action in Continuum is a wrapper around the MSBuild.exe command line. If you're having trouble using the MSBuild action, please refer to the [Command Line Reference](#).

The MSBuild action provides an XML schema for a project file that controls how the build platform processes and builds software.

## MSBuild

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Required Field

Name

MSBuild []

☒ Enabled

Project File or Folder

\$Source.myRepository\$\src\myProject.proj

...

The path to a supported project file or a project folder. Leave blank to build the workspace folder.

Targets

build

Build the specified targets in the project. Separate targets by a semicolon. [/target]

Configuration

Release

The configuration to build. [/property:configuration]

Platform

The platform to build. Leave blank to use the default for the specified configuration. [/property:platform]

Output Path

\$Workspace\$\Output

The build's output path. [/property:outputpath]

Using

MSBuild.16.0

▼

Validate

Save

Cancel

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### Name

A name for this action (this will appear within the stage action list).

### Enabled

An action which is not enabled is effectively skipped when executing the given stage.

### Project File or Folder

Enter the path and file name of a supported MSBuild project file or a project folder. These are usually .proj or .sln files.

### Targets

MSBuild targets the action will build. To specify multiple targets, separate them by a semicolon. Targets with spaces in them will be handled correctly and don't require you to wrap them in quotes. [/target:]

### Configuration

The Configuration that MSBuild should build. This is usually set to Configuration or Release. [/property:configuration=]

### Platform

The platform to build. Leave blank to use the default for the specified configuration. [/property:platform=]

## Output Path

Where MSBuild should save the executed build. With the default stage workspace rules, if the project is save to \$Workspace\$/Output then it will be copied back from the Agent to the Continua Server. [/property:outpath=]

## Using

The Using drop down is populated by any property collector properties whose namespace matches the pattern defined by the MSBuild action. The pattern for this action is `^msbuild\.*`

If you create a property collector for this action, make sure you select the **Path Finder Plugin** type and give it a name that will match the pattern above in blue. Example names listed [here](#), search the table's Plugin column for "MSBuild".

For more in-depth explanations on property collectors see [Property Collectors](#).

Alternatively, you can select the **Custom** option from the Using drop down list and specify a path in the resulting input field that will be displayed. Please read [Why it's a good idea to use a property collector](#) before using this option.

## Settings

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Required Field

Max CPU Count

0

The number of MSBuild processes to spawn. Set to 0 for default. [/maxcpucount]

☒ Disable Node Reuse

Ensure this is ticked to disable reuse of MSBuild nodes. If this is not checked nodes will remain after the build finished. This may result in issues with files being locked in subsequent actions. [/nodeReuse]

ToolsVersion

4.0

Specify the ToolsVersion to use, leave blank for default. [/toolsversion]

MSBuild Bitness

Default

The bitness of the MSBuild executable.

Extra Parameters

Specify any extra command line parameters here.

Validate

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Cancel

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### Max CPU Count

Specifies the number of processes MSBuild will spawn. By default this is 0, which means MSBuild will spawn 1 process per CPU core on the agent that is running the action. [/maxcpucount]

### Disable Node Reuse

Ensure this is ticked to disable reuse of MSBuild nodes. If this is not checked nodes will remain after the build finished. This may result in issues with files being locked in subsequent actions. [/nodeReuse]

### ToolsVersion

Specify the tools version to use. Leave blank for default. [/toolsversion]

### MSBuild Bitness

The bitness of the MSBuild executable.

## Properties

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Required Field

Properties

property\_name=property\_value

Specify one MSBuild property per line. [/property]

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### Properties

You can pass properties to MSBuild by specifying each property on a new line. The format for a property is ***name=value***. [/property:]

## Options

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Required Field

Verbosity

Normal

▼

Specifies the amount of information to display in the build log. [/verbosity]

Timeout (in seconds)

0

How long to wait for the action to finish running before timing out. Leaving this blank (or zero) will default to 86400 seconds (24 hours).

☐

Treat failure as warning

Tick to continue build on failure marking the action with a warning status.

☐

Ignore warnings

✓ Validate

Save

Cancel

Help

### Verbosity

Sets the amount of MSBuild output that gets logged to Continuum CI's build log. [/verbosity:]

### Timeout (in seconds)

How long to wait for the action to finish running before timing out. Leaving this blank (or zero) will default to 86400 seconds (24 hours).

### Treat failure as warning

Tick to continue build on failure marking the action with a warning status.

### Ignore warnings

If this is ticked, any warnings logged will not mark the action with a warning status.

## Environment Variables

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Environment Variables

variable\_name=variable\_value

Specify one name & value pair per line.

☒

Log environment variables

☐

Generate system environment variables

Tick this to set new environment variables prefixed with 'ContinuaCI.' for system objects and variables.

Maximum Environment Variable Length

0

Some versions of MSBuild fail with an error if the length of an environment variable is too long. Use this to truncate the value of environment variables passed to the MSBuild process. Leave as 0 to use the default system property.

Validate

Save

Cancel

Help

## Environment Variables

Multiple environment variables can be defined - one per line. These are set before the command line is run.

## Log environment variables

If this is ticked, environment variable values are written to the build log.

## Generate system environment variables

Tick this checkbox to set up a list of new environment variables prefixed with 'ContinuaCI.' for all current system expression objects and variables.

## Mask sensitive variable values in system environment variables

This checkbox is visible only if the 'Generate system environment variables' checkbox is ticked.

If this is ticked, the values of any variables marked as sensitive will be masked with \*\*\*\* when setting system environment variables. Clear this to expose the values.