

# Team Foundation Server

## TFS

**New Repository**

Repository

TFS

Credentials

Branches

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Downtime

Required Field

Project Collection URL

https://mytfsserver:8080/tfs/collectionname

The URL to connect to the TFS project collection. Ensure that you include the path to the virtual directory and the project collection name. By default, the project collection should be specified as DefaultCollection.

TFS Version

TFS 2017 and later

Version of TFS Client or Team Explorer.

Team Project

Path to the root of the repository Team Project. This should start with '\$/'. e.g. \$/Project1

Relative Folder

Use this to restrict checking and exporting of the repository source to a specific folder under the Team Project.

Validate

Save

Cancel

Help

### Project Collection URL

The URL of the Team Foundation Server. The URL pattern is `[protocol]://[domain]:[port]/tfs/[collectionname]/`

The collection name is optional, if not specified it will default to DefaultCollection.

If you are using the hosted version of TFS and you are having difficulty connecting, try specifying the [collection name] at the end of the server path.

Note: If your TFS or VSTS repository is a Git repository, use the [Git](#) repository type.

### TFS Version

TFS 2010, 2012, 2013, 2015 and 2017 have been tested and work correctly with Continuum CI. Older versions may also work with Continuum CI.

### Team Project Path

The team project you want to link to Continuum CI. The path must start with \$.

The path is usually in the format of \$/myproject.

## Relative Folder

The path to a relative folder under the Team Project. Use this to restrict checking and exporting of the repository source to a specific folder.

## Credentials

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Required Field

Authentication Method

Personal access token

Personal Access Token

The personal access token to connect to the Team Foundation Service.

Validate

Save

Cancel

Help

## Authentication Method

Windows authentication is recommended when connecting to a service which is on a local domain. Otherwise, personal access token is recommended.

**Note:** to use basic authentication with Visual Studio Online or Azure DevOps, 'alternate authentication credentials' must be enabled.

### Basic authentication

Username

The username to connect to the Team Foundation Service.

Password

The password to connect to the Team Foundation Service.

## Personal access token

### Personal Access Token

The personal access token to connect to the Team Foundation Service.

## Windows authentication

### Username

The username to connect to the Team Foundation Service. Leave blank to connect using the Continua CI Server service credentials.

### Password

The password to connect to the Team Foundation Service. Leave blank to connect using the Continua CI Server service credentials.

## Branches

### Branches To Monitor

There are four options to choose from when selecting which branch(es) to monitor.

#### 1. Single branch

The screenshot shows the 'New Repository' dialog box with the 'Branches' tab selected. The dialog has a blue header bar with the title 'New Repository'. Below the header is a tab bar with the following tabs: 'Repository', 'TFS', 'Credentials', 'Branches' (selected), 'Paths', 'Options', 'Filtering', and 'Downtime'. The 'Branches' tab contains the following fields and options:

- Branches to Monitor:** A dropdown menu with 'Single branch' selected. A red vertical bar and the text 'Required Field' are to the right of this field.
- Branch Path:** A text input field. Below it is the text: 'The path of the branch to monitor. Leave empty or enter / to monitor from the Team Project including any Relative Folder (no branch).'.
- Relative Folder Under Branch:** A text input field. Below it is the text: 'Use this to restrict checking and exporting of the repository source to a specific folder under each branch.'
- ☐ Use case-sensitive branch matching

At the bottom of the dialog are four buttons: 'Validate' (with a checkmark icon), 'Save' (with a floppy disk icon), 'Cancel' (with an 'X' icon), and 'Help' (with a question mark icon).

This option tells Continua CI to monitor only the single branch you specify.

When you select this option you need to provide a **Branch Path** which is the path of the branch you want ContinuaCI to monitor. The Branch Path should start with / and is usually in the format of /mybranch. If you want to monitor from the root of the repository and exclude any branches, then you can leave the Branch Path blank or enter /.

You can also specify a **Relative Folder Under Branch**. This allows you to restrict checking and exporting of the repository source to a specific folder under the branch.

### Use case-sensitive branch matching

Tick to take case into account when matching the branch against the branch pattern.

## 2. All branches

New Repository

RepositoryTFSCredentialsBranchesPathsOptionsFilteringDowntime

Required Field

Branches to MonitorAll branches

Default Branch

Path to branch to use when not performing a feature branch build. Leave empty or enter / to build from the Team Project and any Relative Folder.

☐

Exclude changesets not in a branch

Tick to exclude changes to files and folders which are not within a TFS branch.

Relative Folder Under Branch

Use this to restrict checking and exporting of the repository source to a specific folder under each branch.

Maximum Active Branch Age (days)

0

Branches with commits or builds older than the specified number of days will be hidden from Start Build and Trigger dialogs. Enter 0 to ignore branch age.

Validate

Save

Cancel

Help

This option tells Continua CI to monitor all branches in the repository.

When you select this option you need to provide a **Default Branch** path so Continua CI knows what to use for a build when no branch is selected. The Default Branch should start with / and is usually in the format of /mybranch. If you want Continua to get code from root of the repository by default, excluding any branches, then you can leave the Default Branch blank or enter /.

By default any changes in folders which are not part of a TFS branch will be associated with a root branch path "/" displayed as "no branch". Tick the **Exclude changesets not in a branch** checkbox to exclude these changesets.

You can also specify a **Relative Folder Under Branch**. This allows you to restrict checking and exporting of the repository source to a specific folder under each branch. Note that no changesets will be picked up from any branches which do not include this relative folder.

If you enter a non-zero **Maximum Branch Age**, then branches with commits or builds older than the specified number of days will be hidden from Start Build and Trigger dialogs.

## 3. By pattern

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Branches to Monitor
By pattern

Branch Pattern
feature-.\*

Regex describing the branches to monitor.

Default Branch

Path to branch to use when not performing a feature branch build. Leave empty or enter / to build from the Team Project and any Relative Folder.

☐ Exclude changesets not in a branch

Tick to exclude changes to files and folders which are not within a TFS branch.

Relative Folder Under Branch

Use this to restrict checking and exporting of the repository source to a specific folder under each branch.

☐ Use case-sensitive branch matching

Maximum Active Branch Age (days)
0

Branches with commits or builds older than the specified number of days will be hidden from Start Build and Trigger dialogs. Enter 0 to ignore branch age.

Validate
Save
Cancel
Help

This option tells Continua to monitor any branch that matches a pattern you provide in the **Branch Pattern** field. The Branch Pattern field accepts a regular expression which is matched against all the branches in your TFS repository.

Since the pattern can potentially match more than one branch, you also need to provide a **Default Branch** value so Continua knows what to use for a build when no branch is selected. The Default Branch should start with / and is usually in the format of /mybranch. If you want Continua to get code from root of the repository by default, excluding any branches, then you can leave the Default Branch blank or enter /.

By default any changes in folders which are not part of a TFS branch will be associated with a root branch path "/" displayed as "no branch". Tick the **Exclude changesets not in a branch** checkbox to exclude these changesets.

You can also specify a **Relative Folder Under Branch**. This allows you to restrict checking and exporting of the repository source to a specific folder under each branch. Note that no changesets will be picked up from any branches which do not include this relative folder.

**Use case-sensitive branch matching** - Tick to take case into account when matching the branch against the branch pattern.

If you enter a non-zero **Maximum Branch Age**, then branches with commits or builds older than the specified number of days will be hidden from Start Build and Trigger dialogs.

#### 4. Ignore branches

New Repository

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Required Field

Branches to Monitor

Ignore branches

☐ Exclude changesets in a branch

Tick to exclude changes to files and folders which are within a TFS branch.

Validate

Save

Cancel

Help

This option tells Continua to ignore all branches. Any branches will be treated the same as if they were folders unless you tick the **Exclude changesets in a branch** checkbox, in which case changesets associated with a branch will be ignored.

## Paths

New Repository

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Required Field

☐ Include relative folder

Tick to include the relative folder path in addition to any branch path and any relative folder under branch path when exporting source from repository.

✓ Validate

Save

Cancel

Help

By default the source code is exported relative to the folder under the branch path.

#### Include relative folder

Tick to include the relative folder path in addition to any branch path and any relative folder under branch path when exporting source from repository.

## Options

New Repository

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Required Field

☐ Write changeset details to file ?

Tick to write changeset details to the file "\_CI\_ChangesetDetails.xml" after checking out each changeset.

✓ Validate

💾 Save

✕ Cancel

? Help

### Write changeset details to file

Tick to write changeset details to the file "\_CI\_ChangesetDetails.xml" after checking out each changeset.