

Vault



The plugin is bundled since TeamCity 5.1. The recent version is [described](#) in the documentation for the latest TeamCity version.

General Info

Vendor	JetBrains
License	Apache 2.0
Type	free, open-source

Plugin Description

Adds [SourceGear Vault VCS](#) support.

Plugin Development Status

Production quality.

Documentation

Installation instructions

1. Put the Vault Java API jars (available with [Java Command Line client](#)) into the `<TeamCity Data Directory>/plugins/VaultAPI/lib` folder.
The Vault Java API jars can be found in the `vaultJavaCLC##/lib` directory, where `##` are the digits corresponding to the Vault version.
2. Restart the TeamCity server.

Plugin usage

The VCS is visible as SourceGear Vault in the VCS chooser.

Specify repository connection settings.

1. Vault server URL. Should have `http://<server>[:<port>]/VaultService` structure. Use `http://` URL prefix for SSL connection.
2. Repository name
3. User name
4. Password

To configure repository sources labeling, please refer to the [corresponding section](#) in the TeamCity online documentation.

Only server-side checkout is supported. Personal builds (remote run and pre-tested commit) are not yet supported.

Logging in debug mode

Enable plugin logging in the debug mode using the TEamCity Web UI as described [here](#). You can also manually edit the `<TeamCity Home>/conf/teamcity-server-log4j.xml` \ file - remove the XML comments marked with "DELETE THIS LINE FOR ENABLING DEBUG LOGGING" text.

The file can be modified without application restart.

Known issues

Vault Java API problems

These problems are related to the Vault Java API (that TeamCity uses to communicate with Vault server) and cannot be fixed on the TeamCity side.

They should be redirected to SourceGear Vault team via <http://support.sourcegear.com/>.

The main cause of the mentioned problems is that the SourceGear Vault API is static and is not designed to work with more than one repository.

We workaroud some of the problems in the TeamCity SourceGear Vault plugin, but the workarounds may not work with some Vault versions:

- TeamCity ≥ 8.1 + Vault < 6.0

There is a [known issue](#). To workaround the issue, add the `teamcity.vcs.vault.classloading=full` [internal property](#) and restart the TeamCity server.

If you have several Vault VCS roots in your TeamCity installation (working with different Vault repositories), the workaround may increase PermGen usage and cause the `OutOfMemoryError` until you increase `-XX:MaxPermSize`.

Another workaround to switch to the TeamCity 8.0 behaviour by using a custom 8.0 Vault plugin build (see attached) but this may cause the slowness mentioned below.

- TeamCity ≤ 8.0 + any Vault version

The known issue is slowness due to the internal Vault cache building ([TW-30577](#), [TW-31848](#)), especially if the repository is huge.

There is nothing that can be done on the TeamCity side.

Other problems

- Agent-side checkout not supported
- Since the plugin uses Vault Java API, you can face the problem with threads running a keep-alive through the Ping API (bug:15244 on SourceGear issue tracker) which results in many `HistoryBeginPing` threads hanging. The problem was fixed in Vault 5.0.4, so we strongly advise to use the latest Vault Java API.
- If you are having trouble connecting to a Vault Server using SSL, you may need to import the ssl certificate into your Java keystore using Java's keytool. More details can be found [here](#).

Feedback/Support

If you believe you've faced a bug: [Issue Tracker](#)

If you want to ask a question or discuss: [Forum](#)

Any of the above, but you do not want it to be publicly accessible: [Online Form](#) or [Feedback email](#)

Development links

- Obsolete [Builds](#) at JetBrains public TeamCity instance.
- [Sources](#) on GitHub.

Related Materials

[Tracker Issue](#)