

# Environment Script Plugin

## Plugin Information

View Environment Script [on the plugin site](#) for more information.

Allows you to run a script before each build that generates environment variables for it.

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### Description

Environment Script Plugin allows you to have a script run after SCM checkout, before the build. If the script fails (exit code isn't zero), the build is marked as failed. Any output on standard out is parsed as environment variables that are applied to the build. It supports "override syntax" to append paths to PATH-like variables (through `EnvVars.override` in Jenkins).

Some information about how it runs:

- It runs **after** SCM checkout, so you can refer to files from your SCM of choice.
- Matrix builds are supported, and the script runs on each of the build combinations (sub-builds, or whatever you call them), **not** on the 'master' flyweight task that kicks off the other ones.
- It supports "override" (through `EnvVars.override`) syntax for appending to PATH-like variables: `PATH+myuniqueidentifier=/foo` is the same as `PATH=$PATH:/foo` in shell-script (notice the `:` is added automatically).
- If you want to fail a build from the script, just exit with status code 1.
- Support unix and windows scripts.

### Setup

To enable this plugin, go to the configuration page of the job you care about, and check the box named `Generate environment variables from script`.

### Regular job

#### Build Environment

Assign unique TCP ports to avoid collisions

Generate environment variables from script

Script Content `cat environment-$GIT_BRANCH.txt`

This script is executed before each build, and any output it produces will be evaluated as environment variables (key=value).

In your script, just print "FOO=bar" to the standard output to set that variable.

```
echo VARIABLE1=Hello World
```

If you want to append to an existing PATH-style variable, you can do:

```
echo PATH+unique_identifier=/usr/local/bin
```

Otherwise, you're free to do whatever your heart desires in this script - `cat` a file, run a script in some other language from your project's source tree, etc.

### Matrix job

**Build Environment**

Generate environment variables from script

Run only on parent

Script Content

This script is executed before each build, and any output it produces will be evaluated as environment variables (key=value).

Matrix jobs are pretty much the same as regular jobs, except you get a new checkbox: `Run only on parent`. If you enable this option, the script will only run on the matrix "parent" job, and not on the individual "configuration builds" (sub-builds). The environment variables will still be propagated to the children.

This option comes in handy if you need to do something like generate a shared version number based on a timestamp - the code will only run once, but all the different configurations will get the variable. Here's an example - note that **ONLY** `$VERSION` is seen by the jobs, not `$base_version` and `$unix_time`.

```
base_version=$(cat version.txt)
unix_time=$(date +%s)
echo VERSION=${base_version}-${unix_time}
```

## Known issues

Type	Key	Summary	Assignee	Reporter	Priority	Status	Resolution	Created	Updated	Due
		Can't show details. Ask your admin to whitelist this Jira URL.								
		<a href="#">View these issues in Jira</a>								

## Version history

### 1.2.5 (Aug 01, 2016)

- Fix compatibility issue with 2.16 [PR](#)

### 1.2.4 (Jul 31, 2016)

- [JENKINS-36697](#) Must show "Run Only on Parent" for MatrixMultibranchProject
- Bump jenkins core to 1.642.4
- Bump matrix-project to 1.6
- Add multi-branch-project-plugin 0.5.1

### 1.2.3 (May 19, 2016)

- Disable -x in bash scripts
- Refactor help messages
- Add ability to hide environment variables values [PR](#) [PR](#)

### 1.2.2 (Nov 16, 2015)

- [JENKINS-20705](#): Environment Script does not work on Windows Master.

### 1.2.1 (Nov 15, 2015)

- [JENKINS-30762](#): Environment script fails with job name shorter than 3 characters.
- [JENKINS-26673](#): Environment Script leaves files in /tmp on Ubuntu.

### 1.2 (Aug 28, 2015)

- [JENKINS-14754](#): Using a shebang was failing all builds.
- Set the expected encoding of script output to UTF-8. [PR](#)
- [JENKINS-14951](#): Set environment on matrix parent build. [PR](#)
- Bump jenkins core to 1.565
- Add matrix-project as dependency
- Add EnvironmentPluginAction to make exposing environment to build

- Code formatting
- Move junit to JenkinsRule

### **1.1.2 (Aug 9, 2012)**

- [JENKINS-14754](#): Using a shebang was failing all builds.

### **1.1.1 (Aug 8, 2012)**

- Add help for "Only run on parent" option.
- Improve help for "Script content".
- Use `java.util.Properties` to parse instead of our own crappy one.

### **1.1 (Aug 8, 2012)**

- [JENKINS-14701](#): Added option to run script only on the 'parent' of a matrix build (instead of on each individual 'configuration build'),

### **1.0 (Aug 6, 2012)**

- First release.