

Environment Variable

The screenshot shows the Jenkins System configuration page. The URL is `localhost:8080/manage/configure`. The 'Environment variables' checkbox is checked. A new variable is being added with the name `PROJECT_NAME` and the value `Jenkins Learning`. There is a '+ Add' button to add more variables, a 'Tool Locations' section, and 'Save' and 'Apply' buttons at the bottom.

System - Jenkins jenkins global variables - Google Using environment variables

localhost:8080/manage/configure

Jenkins / Manage Jenkins / System

Disable deferred wipeout on this node ?

Disk Space Monitoring Thresholds

Environment variables

List of variables ?

Name
PROJECT_NAME

Value
Jenkins Learning

+ Add

Tool Locations

Save Apply

The screenshot shows a browser window with four tabs open: "Dashboard - Jenkins", "jenkins environment variables", "List of available Jenkins Environment Variables", and "Jenkins Environment Variables". The main content area features a banner for KubeCon North America 2025. Below the banner, there's a navigation bar with links for Product, Solutions, Docs, Pricing, Resources, About, Login, and a Free trial button. On the left, there's a sidebar with the Spacelift logo and a "TABLE OF CONTENTS" section listing various Jenkins environment variable topics.

streamline workflows. They eliminate the need for hardcoding specific script values and make pipelines more adaptable.

Here are the most useful built-in environment variables in Jenkins:

1. `BUILD_NUMBER`: This variable represents the current build number and helps track the build's sequence in the job lifecycle.
2. `JOB_NAME`: It provides the job's name and helps us identify and manage specific tasks.
3. `BUILD_URL`: This variable directly links to the current build, allowing us to quickly access the logs and results.
4. `NODE_NAME`: It identifies the job's agent and clarifies the distributed build environments.
5. `WORKSPACE`: This points to the directory where the job's files and outputs are stored during the build process.

Environment variables vs parameters in Jenkins

The screenshot shows a WordPress page titled "List of available Jenkins Environment Variables". The page includes a sidebar with various Jenkins-related links and a main content area with a table of Jenkins environment variables. The table has two columns: the variable name and its description. A "Get started" button is visible at the top right of the table.

Variable	Description
<code>CHANGE_AUTHOR</code>	Kind of change request, this will be set to the email address of the author, if supported; else unset
<code>CHANGE_TARGET</code>	For a multibranch project corresponding to some kind of change request, this will be set to the target or base branch to which the change could be merged, if supported; else unset
<code>BUILD_NUMBER</code>	The current build number, such as "153"
<code>BUILD_ID</code>	The current build ID, identical to <code>BUILD_NUMBER</code> for builds created in 1.59+, but a YYYY-MM-DD_hh-mm-ss timestamp for older
<code>BUILD_DISPLAY_NAME</code>	The display name of the current build, which is something like "#153" by default
<code>JOB_NAME</code>	Name of the project of this build, such as "foo/bar"
<code>JOB_BASE_NAME</code>	Short Name of the project of this build strip off folder paths, such as "foo" for "bar/foo"
<code>BUILD_TAG</code>	String of " <code>jenkins-\$JOB_NAME-\$BUILD_NUMBER</code> " All forward slashes (<code>/</code>) in <code>JOB_NAME</code> are replaced with dashes (" <code>-</code> "). Convenient to put into a resource file, ajar for easier identification
<code>EXECUTOR_NUMBER</code>	The unique number that identifies the executor

wiki.jenkins.io/display/JENKINS/Building+a+software+project#Buildingasoftwareproject-belowJenkinsSetEnvironmentVariables

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Jenkins Set Environment Variables

When a Jenkins job executes, it sets some environment variables that you may use in your shell script, batch command, Ant script or Maven POM ^{#1}. The following table lists the environment variables.

Environment Variable	Description
BUILD_NUMBER	The current build number, such as "153"
BUILD_ID	The current build id, such as "2005-08-22_23-59-59" (YYYY-MM-DD_hh-mm-ss, defunct since version 1.597)
BUILD_URL	The URL where the results of this build can be found (e.g. http://buildserver/jenkins/job/MyJobName/666/)
NODE_NAME	The name of the node the current build is running on. Equals 'master' for master node.
JOB_NAME	Name of the project of this build. This is the name you gave your job when you first set it up. It's the third column of the Jenkins Dashboard.
BUILD_TAG	String of jenkins-\${JOB_NAME}-\${BUILD_NUMBER}. Convenient to put into a resource file, a jar file, etc for easier identification.
JENKINS_URL	Set to the URL of the Jenkins master that's running the build. This value is used by Jenkins CLI for example
EXECUTOR_NUMBER	The unique number that identifies the current executor (among executors of the same machine) that's carrying out this build. This is the "status", except that the number starts from 0, not 1.
JAVA_HOME	If your job is configured to use a specific JDK, this variable is set to the JAVA_HOME of the specified JDK. When this variable is set, PATH includes \$JAVA_HOME/bin.
WORKSPACE	The absolute path of the workspace.
SVN_REVISION	For Subversion-based projects, this variable contains the revision number of the module. If you have more than one module specified, this is the revision of the last module.
CVS_BRANCH	For CVS-based projects, this variable contains the branch of the module. If CVS is configured to check out the trunk, this environment variable is set to 'trunk'.
GIT_COMMIT	For Git-based projects, this variable contains the Git hash of the commit checked out for the build (like ce9a3c1404e8c91be60408867 (require git plugin))
GIT_URL	For Git-based projects, this variable contains the Git url (like git@github.com:user/repo.git or [https://github.com/user/repo.git])
GIT_BRANCH	For Git-based projects, this variable contains the Git branch that was checked out for the build (normally origin/master)

Jenkins / first-job / Configuration

Configure

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

- General
- Source Code Management
- Triggers
- Environment
- Build Steps**
- Post-build Actions

Execute Windows batch command

Command

See the list of available environment variables

```
echo Hello World
echo Hello %firstName%
echo %PROJECT_NAME%
```

Advanced

+ Add build step

 Jenkins / Manage Jenkins / System

Global properties

- Disable deferred wipeout on this node ?
- Disk Space Monitoring Thresholds
- Environment variables

List of variables ?

Name
PROJECT_NAME

Value

Jenkins Learning

+ Add

localhost:8080/job/first-job/14/console

Jenkins / first-job #14 / Console Output

Status Changes Console Output Edit Build Information Delete build '#14' Parameters Timings Previous Build

Console Output

Started by user unknown or anonymous
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\first-job
[first-job] \$ cmd /c call C:\WINDOWS\TEMP\jenkins18027400753890197481.bat

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo Hello World
Hello World

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo Hello RiyazKhan Pathan
Hello RiyazKhan Pathan

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo Jenkins Learning
Jenkins Learning

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>exit 0
Finished: SUCCESS

first-job #14 Console - Jenkins first-job Config - Jenkins

localhost:8080/job/first-job/configure

Jenkins / first-job / Configuration

Configure

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Execute Windows batch command

Command

See the list of available environment variables

```
echo Hello World
echo Hello %firstName%
echo %PROJECT_NAME%
echo %WORKSPACE%
echo %JOB_URL%
echo %JENKINS_HOME%
```

Advanced

+ Add build step

Post-build Actions

Save Apply

This screenshot shows the Jenkins job configuration page for 'first-job'. The 'Build Steps' section is active, displaying a single step named 'Execute Windows batch command'. The command entered is: 'echo Hello World', followed by several environment variable expansions: '%firstName%', '%PROJECT_NAME%', '%WORKSPACE%', '%JOB_URL%', and '%JENKINS_HOME%'. Below the command input, there's an 'Advanced' dropdown and a '+ Add build step' button. At the bottom of the configuration page are 'Save' and 'Apply' buttons.

first-job #14 Console - Jenkins first-job #15 Console - Jenkins

localhost:8080/job/first-job/15/console

Jenkins / first-job / #15 / Console Output

Console Output

Started by user unknown or anonymous
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\first-job
[first-job] \$ cmd /c call C:\WINDOWS\TEMP\jenkins359136669337148052.bat

```
C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo Hello World
Hello World

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo Hello RiyazKhan Pathan
Hello RiyazKhan Pathan

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo Jenkins Learning
Jenkins Learning

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo C:\ProgramData\Jenkins\.jenkins\workspace\first-job
C:\ProgramData\Jenkins\.jenkins\workspace\first-job

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo http://localhost:8080/job/first-job/
http://localhost:8080/job/first-job/

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>echo C:\ProgramData\Jenkins\.jenkins
C:\ProgramData\Jenkins\.jenkins

C:\ProgramData\Jenkins\.jenkins\workspace\first-job>exit 0
```

Download Copy View as plain text

This screenshot shows the Jenkins job console output for build #15. The output window is titled 'Console Output' and displays the logs from the executed batch script. The logs show the script echoing 'Hello World', 'Hello RiyazKhan Pathan', 'Jenkins Learning', the Jenkins workspace path, the Jenkins URL, and finally exiting with status 0. There are download, copy, and view as plain text buttons at the top right of the console output area.