

Docker Pipeline Plugin

Plugin Information


View Docker Pipeline [on the plugin site](#) for more information.

Allows to build and use Docker containers from [pipelines](#).

Features

See the [user guide](#) for all details.

Open JIRA issues

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
	JENKIN S-31225	docker.build fails with if HOME is not set.	Jesse Glick	James Nord		REOPENED	Unresolved	Oct 28, 2015	Aug 24, 2016	
	JENKIN S-42890	Could not find FROM instruction in Dockerfile when it starts with a BOM	Unassigned	Mateusz Kubaszek		OPEN	Unresolved	Mar 17, 2017	Jun 16, 2017	
	JENKIN S-49365	Resuming of pipelines vs. docker.image(...).inside (...)?	Unassigned	Reinhold Füreder		REOPENED	Unresolved	Feb 05, 2018	Dec 18, 2019	
	JENKIN S-50687	When using docker.withRegistry withEnv repeats indefinitely.	Unassigned	Aaron Haaf		OPEN	Unresolved	Apr 09, 2018	May 18, 2018	
	JENKIN S-52264	Error while running pipeline job in docker	Unassigned	Suvir Pavin		OPEN	Unresolved	Jun 29, 2018	Oct 24, 2019	
	JENKIN S-52991	withDockerRegistry([...]) fails with "Email: EOF" on older docker versions	Unassigned	Matt Evans		OPEN	Unresolved	Aug 10, 2018	Jan 14, 2019	
	JENKIN S-54389	Containers with ENTRYPOINT is not started correctly	Unassigned	Artem V. Navrotskiy		OPEN	Unresolved	Nov 01, 2018	May 18, 2019	
	JENKIN S-54681	dir('path') is broken when used within "docker.image().inside()"	Unassigned	Krassimir Valev		OPEN	Unresolved	Nov 16, 2018	Nov 17, 2018	
	JENKIN S-56729	groovy.lang.MissingPropertyException: No such property: frontend for class: groovy.lang.Binding	Unassigned	Noor Ameen		OPEN	Unresolved	Mar 24, 2019	Mar 24, 2019	
	JENKIN S-45236	docker.withServer cannot connect using TLS	magnayn	Devis Calio		OPEN	Unresolved	Jun 30, 2017	May 18, 2018	
	JENKIN S-50857	Docker agent on windows fails with Cannot run program "id"	Unassigned	Jonathan Kuleff		OPEN	Unresolved	Apr 18, 2018	Aug 09, 2018	
	JENKIN S-57168	withDockerRegistry problems in Declarative Pipeline	Unassigned	Junior Junior		OPEN	Unresolved	Apr 24, 2019	Apr 24, 2019	
	JENKIN S-57210	Issue with docker.withRegistry	Unassigned	Michael Knox		OPEN	Unresolved	Apr 29, 2019	Jun 07, 2019	

	JENKIN S-57366	Script injection attack when using docker.image	Unassigned	Changcheng Liu		OPEN	Unresolved	May 08, 2019	May 08, 2019
	JENKIN S-28606	Track down WithContainerStepTest.stop() hang	Tom FENNELLY	Jesse Glick		OPEN	Unresolved	May 27, 2015	Aug 03, 2015
	JENKIN S-32859	tests hung in docker container due to PID1 not reaping zombies	Unassigned	Edwin Török		OPEN	Unresolved	Feb 09, 2016	Oct 04, 2017
	JENKIN S-36913	ToolInstaller framework doesn't work with docker-pipeline	Jesse Glick	Cyrille Le Clerc		REOPENED	Unresolved	Jul 25, 2016	Dec 05, 2017
	JENKIN S-37069	Permission denied on durable task directory when using docker.image inside step on fresh install of jenkins	Unassigned	Vitor Dantas		OPEN	Unresolved	Jul 29, 2016	Mar 01, 2017
	JENKIN S-38766	withRegistry() duplicates registry name	Unassigned	Richard Lee		OPEN	Unresolved	Oct 06, 2016	Oct 13, 2016
	JENKIN S-39664	Docker builds do not work with Kubernetes Pipeline plugin	Ioannis Canellos	Markus May		IN PROGRESS	Unresolved	Nov 11, 2016	May 25, 2018

Showing 20 out of 139 issues

Version history

Version 1.19 (August 2, 2019)



As of this release, fingerprints will no longer be automatically generated when using `docker.build` or `image.run` in a Pipeline. If you are using the CloudBees Docker Traceability Plugin, which is the only known consumer of these fingerprints, you will need to explicitly call `dockerFingerprintFrom` and `dockerFingerprintRun` if you want to maintain the previous behavior.

- [JENKINS-44609](#) - Docker inspect failing on named multi-stage builds RESOLVED
- [JENKINS-44789](#) - docker 17.05 multistage Dockerfile breaks dockerFingerprintFrom RESOLVED
- [JENKINS-57369](#) - Docker build-args incorrectly rejected and successful build marked failed RESOLVED Deprecate the `dockerFingerprintFrom` and `dockerFingerprintRun` steps and stop calling them during `docker.build` and `image.run`. Fixes various issues with Dockerfile parsing and parsing arguments to `docker build`.
- [JENKINS-46636](#) - ``dir`` does not change working directory for contained steps RESOLVED Attempt to support the `dir` step when running on a Docker container created by this plugin for older versions of Docker (17.12 and older)


Version 1.18 (April 2, 2019)

- [JENKINS-48437](#) - Docker Pipeline Plugin withRegistry and Authorize Plugin fails to get credentialsId RESOLVED Allow users with `Credentials/UseItem` permission (implied by `Job/Configure` permission) on a Pipeline Job to use credentials which that job has access to in the `withDockerRegistry` and `withDockerServer` steps even when [Authorize Project Plugin](#) is installed and configured to run builds as a user other than the default Jenkins superuser.
- [JENKINS-46405](#) - Docker 17.05 ARG in FROM breaks docker inspect RESOLVED Extend fix for ARGs in FROM added in version 1.15 to support ARGs with default values.
- [JENKINS-56674](#) - In case of execute withDockerContainer inside withDockerContainer env variables is not masked RESOLVED Mask environment variables used by steps that use the `Launcher API` inside of a `withDockerContainer` step.
- ([PR 153](#)) Update help related to `image.pull()` to explain what problems might happen if the method is not called.


Version 1.17 (May 18, 2018)

-  [JENKINS-51395](#) - withDockerRegistry([...]) syntax no longer accepted RESOLVED The withDockerRegistry step now preferentially takes a “flat” argument list, but continues to support older syntaxes, including the one broken in 1.16.
-  [JENKINS-51397](#) - docker login being called without server-related environment variables RESOLVED May solve login issues in certain environments, especially with a custom Docker server endpoint. The non-CLI-based login behavior in 1.15.1 may be restored using the Jenkins startup flag `-Dorg.jenkinsci.plugins.docker.commons.credentials.DockerRegistryToken.USE_CUSTOM_LOGIN=true` but this suffers from a number of known limitations including lack of guaranteed support for parallel builds on one computer, failure to clean up credentials at the end of a build, incompatibility with the JSON format from some versions of the Docker client, etc.



Version 1.16 (May 11, 2018)

-  [JENKINS-38018](#) - withDockerRegistry fails to authenticate with DockerHub RESOLVED and allied issues: using CLI-based registry login by default

WARNING: introduced some known regressions  [JENKINS-51395](#) - withDockerRegistry([...]) syntax no longer accepted RESOLVED &

-  [JENKINS-51397](#) - docker login being called without server-related environment variables RESOLVED

Version 1.15.1 (Feb 13, 2018)

-  [JENKINS-49278](#) - cat command in docker agents not detected correctly REOPENED command in docker agents not detected correctly
-  [JENKINS-42152](#) - Docker Pipeline causes build to fails because of use of `--force=yes` for tagging OPEN do not use (deprecated) `--force` when tagging images
- better error message for [JENKINS-41316](#)

Version 1.15 (Jan 30, 2018)

- [JENKINS-41316](#) Restore entrypoint support (JENKINS-37987), check the command is well executed by entrypoint
- [JENKINS-48502](#): Added ECS and Kubernetes support in cgroup detection
- [JENKINS-49063](#): fix cgroup detection on Docker CE
- [JENKINS-46105](#): fix support for ARG in FROM command
- [JENKINS-33510](#): add support for exec workdir option
- [JENKINS-47791](#): Making WithContainerStepTest.death not assume the existence of a pid file.

Version 1.14 (Nov 1, 2017)

- [JENKINS-40484](#) - Stop passing `PATH` from agent to container, fixing problems such as `withMaven` not working within `withContainerStep`.

Version 1.13 (Sep 11, 2017)

- [JENKINS-44609](#) No longer fails on multi-stage Dockerfile with FROM .. AS syntax
- Added OS detection in JUnits so Windows based runs pass
- Added JenkinsFile for automated CI on the plugin

Version 1.12 (Jun 16, 2017)

- Label the Docker workspace volume mount shared for SELinux.
- Stray whitespace in `inspect` format could cause errors.
- Empty environment variables in Jenkins settings could cause errors.
- [JENKINS-42322](#) Increased timeout for client operations from 10s to 3m by default (configurable).

Version 1.11 (May 08, 2017)

- Print diagnostics explaining why `--volumes-from` is or is not being used.
- [JENKINS-43222](#) Fixes to environment used for running `docker` CLI commands when using `inside`.
- [JENKINS-43328](#) Detect container ID when running using `--parent-group`.

Version 1.10 (Feb 13, 2017)

- Fixed detection of agents running inside containers under further special conditions.
- Detect custom `Dockerfile` when using `--file`.
- [JENKINS-34276](#) Allow `Image.inside` to run with either a local or registry-prefixed name.
- [JENKINS-37719](#) Recover when `dockerd` hangs.

Version 1.9.1 (Nov 14, 2016)

- Name changed to remove word “CloudBees”.

Version 1.9 (Oct 05, 2016)

- Failure to pass `--volumes-from` from `Image.inside` when an agent was run in a container using `--volume` but no `VOLUME` declaration.
- [JENKINS-37769](#) As-yet-undiagnosed issue with `stop` meant that cleanup from `Image.inside` was delayed for ten seconds.
- [JENKINS-38018](#) When `withRegistry` succeeds, print a message saying where credentials were stored. When credentials are not found, abort rather than silently continuing.
- [JENKINS-37951](#) `withTool` was not honored by `Image.inside`.

Version 1.8 (Sep 07, 2016)

- [JENKINS-37987](#) Allow `Image.inside` to work with images like `maven` which specify an `ENTRYPOINT`.
- [JENKINS-36332](#) Allow a `command` argument to be passed to `Image.withRun`.
- Improved detection of containerized Jenkins instances from 1.5.
- Avoid blocking log output when running `docker` commands to compute fingerprints.

Version 1.7 (Jul 26, 2016)

Requires a newer Jenkins baseline and Pipeline dependencies.

- [JENKINS-36214](#) Use a workspace-specific temporary directory to write `.container` files.
- [JENKINS-34050](#) `Docker.build` may now take arbitrary arguments, not merely an alternate base directory.
- [JENKINS-31225](#) More portable way of determining when commands need to be wrapped in an implicit `node` block.

Version 1.6 (Jul 01, 2016)

- Fix error in 1.5 when not run on Linux.

Version 1.5 (Jun 30, 2016)

- Work correctly out of the box when Jenkins itself is running inside a Docker container. Demo also updated to exercise this mode.
- [JENKINS-33510](#) Not solved, but at least print a warning to the build log that `dir` inside `Image.inside` does not work.
- [JENKINS-33063](#) Allow a `command` to be passed to `Image.run`.
- Added a `Container.port` function.

Version 1.4 (Mar 03, 2016)

- [JENKINS-27152](#) Mount temporary directories now used by several other plugins in addition to the workspace when using `Docker.Image.inside`.
- Handle recent deprecation of `docker tag --force`.

Version 1.3 (Feb 05, 2016)

- No functional change, just following rename from Workflow to Pipeline.


Version 1.2 (Aug 04 2015)

- [JENKINS-28611](#) Honor `DOCKER_HOST` and similar environment variables from the slave machine when running `docker exec` for `docker.inside`.

Version 1.1 (Jul 28 2015)

- [JENKINS-28612](#) Date parsing issue with some Docker clients.

Version 1.0 (Jun 03 2015)

-  First release