

# Docker Run Action



The Docker actions in Continua are a wrapper around the docker command line. If you're having trouble using any of the Docker actions, please refer to the [Command Line Reference](#).

Docker Run action is a [premium action](#) that can be used to run any image on the agent or a remote host. The action allows specification of an alternative command line to run on container if required.

## Docker Run

Docker Run ActionPremium

Docker RunSettingsNetworkOptionsEnvironmentComments

Required Field

Name

Docker Run []

☒ Enabled

Working Directory

SWorkspaceS

The directory from where Docker commands should be run. Defaults to the workspace folder if left empty.

Image Name

image\_name:tagname

The name, and optionally tag, of the docker image to run. This will create a new container based on the image and start the command supplied.

Container Name

container\_name

Name to assign to the container. Leave this blank to automatically generate a random string name. [--name]

Command

Command to run on the container. Leave blank to start with the settings configured in image.

☐ Run in the background

When a container is run in the background, Continua CI does not wait for it to stop and does not receive any output from the process. Use this option when starting a container with a long running process or service. [--detached | --tty]

☐ Specify remote Docker host

Tick to open a new Host tab to specify an alternative Docker host to the one local to the agent.

Using

Docker.Default

▼

Validate

Save

Cancel

Help

### Name

A friendly name for this action (will be displayed in the [actions workflow area](#)).

### Enabled

Determines if this action will be run within the relevant stage.

### Working Directory

The directory from where the Docker command will be run. If left empty, this defaults to the workspace folder.

### Image Name

The name, and optionally tag, of the docker image to run. A new container will be run based on this image.

## Container Name

Name to assign to the container. Leave this blank to automatically generate a random string name.

Docker command line option: `--name`

## Command

Command to run on the container. Leave blank to start with the settings configured in image.

## Run in the background

When a container is run in the background, Continua CI does not wait for it to stop and does not receive any output from the process. Use this option when starting a container with a long running process or service. Note that, with the option enabled, you are now responsible for ensuring that the container is stopped as required.

Docker command line option: `--detached`

## Specify remote Docker host

Tick to open a new Host tab to specify an alternative Docker host to the one local to the agent.

## Using

The version of Docker to use when running the Docker Run command. It is important that the correct version of Docker is installed on the agent.

The Using drop down is populated with any property collector whose namespace matches the pattern defined by the Docker Run action. The pattern for this action is `^Docker.*`

If you create a property collector for this action, make sure you select the **Path Finder Plugin** type and give it a name that will match the pattern above in blue. Example names listed [here](#), search the table's Plugin column for "**Docker Run**".

For more in-depth explanations on property collectors see [Property Collectors](#).

Alternatively, you can select the **Custom** option from the Using drop down list and specify a path in the resulting input field that will be displayed. Please read [Why it's a good idea to use a property collector](#) before using this option.

## Host

Docker Run ActionPremium

Docker RunHostSettingsNetworkOptionsEnvironmentComments

Required Field

Docker Host URL

docker.ourswarm.company.com or 10.0.1.172

Docker host to run Docker commands from. [--host]

Use TLS

Tick to connect to the Docker host using TLS. [--tls]

CA Certificate

ca.pem

Path to Docker host CA certificate file. [--tlscacert]

Certificate

cert.pem

Path to Docker host certificate file. [--tlscert]

Docker Host Key

key.pem

Path to Docker host key file. [--tlskey]

Validate

SaveCancelHelp

## Docker Host URL

The address of the host running the Docker daemon. This can be in the form of a URL or any IP4 Address. If a non-standard port is required simply use the <IPAddress>:<Port> specification format. [--host]

## Use TLS

Tick to connect to the Docker host using TLS where the host is not verified against a CA. [--tls]

## Verify TLS

This is available only if 'Use TLS' is ticked. Tick to verify the TLS certificate with a root authority. [--tlsverify]

When using Verify TLS, if the host's certification authority (CA) is not trusted by the agent, then the connection is not established.

**Note:** The --tls command line option is overridden.

## CA Certificate

The path to Docker host CA certificate file. [--tlscacert]

## Certificate

The path to Docker host certificate file. [--tlscert]

## Docker Host Certificate Key

The path to a PEM format file containing the key for the accessing the Docker Host Certificate. [--tlskey]

## Settings

Docker Run Action

Premium

Docker Run

Settings

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Options

Environment

Comments

Required Field

Container Working Directory

Working directory inside the container. [--workdir]

User

The username or Id of the user to run the process within the container. [--user]

Entrypoint

Overwrite the default entrypoint set by the image. [--entrypoint]

☒

 Automatically remove the container when it exits. [--rm]

☐

 Skip image verification. [--disable-content-trust]

☐

 Force image verification. [--disable-content-trust=false]

Extra Command Line Arguments

Container Environment Variables

MYVAR1=foo

Set environment variables for container. [--env]

☒ Validate

Save

Cancel

Help

### Container Working Directory

Working directory inside the container.  
Docker command line parameter: --workdir

### User

The username or Id of the user to run the process within the container.  
Docker command line parameter: --user

### Entrypoint

Overwrite the default entrypoint set by the image.  
Docker command line parameter: --entrypoint

### Automatically remove the container when it exits

Tick to automatically remove the container when it exits.

Docker command line parameter: --rm

Skip image verification

Tick to skip image verification.

Docker command line parameter: --disable-content-trust

Force image verification

Tick to force image verification.

Docker command line parameter: --disable-content-trust=false

Extra Command Line Arguments

Optional extra command line arguments to pass to Docker Run.

Container Environment Variables

Set the environment variables for container. Enter one name = value pair per line.

Docker command line parameter: --env

Network

Docker Run ActionPremium

Docker RunSettingsNetworkOptionsEnvironmentComments

Required Field

Hostname

Container host or computer name. [--hostname]

Ports To Expose

80

A list of additional ports to expose inside the container. [--expose]

☐ Publish all exposed ports to the host. [--publish-all]

Ports To Publish

80

Publish a container's port or a range of ports to the host. [--publish]

Host IP Mappings

variable\_name=variable\_value

Host IP address mappings to add to the containers host file in the format "hostname:ip\_address";. [--add-host]

Validate

Save

Cancel

Help

## Hostname

The container host or computer name.

Docker command line parameter: --hostname

## Ports To Expose

A port, list or range of additional ports to expose inside the container.

Docker command line parameter: --expose

## Ports To Publish

A port, list or range of container ports to publish to the host.

Docker command line parameter: --publish

## Host IP Mappings

Host IP address mappings to add to the containers host file in the format "hostname:ip\_address";.

Docker command line parameter: --add-host

## Options

Docker Run ActionPremium

Docker RunSettingsNetworkOptionsEnvironmentComments

Required Field

☒ Log standard output. [--log-level]

Log Level

Info

Timeout (in seconds)

0

How long to wait for the action to finish running before timing out. Leaving this blank (or zero) will default to 86400 seconds (24 hours).

☐ Treat failure as warning  
Tick to continue build on failure marking the action with a warning status.

☐ Ignore warnings

Validate

SaveCancelHelp

## Log standard output

Tick to log standard output. [--log-level]

## Log Level

The amount of information detail to display in the build log.

## Timeout (in seconds)

How long to wait for the action to finish running before timing out. Leaving this blank (or zero) will default to 86400 seconds (24 hours).

## Treat failure as warning

Tick to continue build on failure marking the action with a warning status.

## Ignore warnings

If this is ticked, any warnings logged will not mark the action with a warning status.

## Environment

Docker Run ActionPremium

Docker RunSettingsNetworkOptionsEnvironmentComments

Environment Variables

variable\_name=variable\_value

Required Field

Specify one name & value pair per line.

☒ Log environment variables

☐ Generate system environment variables

Tick this to set new environment variables prefixed with 'ContinuaCI.' for system objects and variables.

Validate

Save

Cancel

Help

## Environment Variables

Multiple environment variables can be defined - one per line. These are set before the command line is run.

### **Log environment variables**

If this is ticked, environment variable values are written to the build log.

### **Generate system environment variables**

Tick this checkbox to set up a list of new environment variables prefixed with 'ContinuaCI.' for all current system expression objects and variables.

### **Mask sensitive variable values in system environment variables**

This checkbox is visible only if the '**Generate system environment variables**' checkbox is ticked.

If this is ticked, the values of any variables marked as sensitive will be masked with \*\*\*\* when setting system environment variables. Clear this to expose the values.