

# CloudFoundry Warden Plugin

Warden is a framework that allows you to spawn containers in milliseconds and programmatically control resource isolation including memory, bandwidth, disk, mounts, ports, processes and other things.

Warden is not only used for CloudFoundry production environment by [Service](#) and [Dea](#), it's also propagated to CloudFoundry Open Source Software (OSS) platform and deeply integrated with Jenkins to work ubiquitously with each Jenkins job for [CloudFoundry](#).

The CloudFoundry Warden Plug-in is a Jenkins plug-in to construct the bridge between Jenkins Job and Warden as well as knock-down the barrier on using Warden to implement the job for Warden container, that's used well on [CI system of CloudFoundry](#).

## Environment preparation

Currently, this plugin is not responsible for any Warden run-time installation which will be taken into consideration in the future's release. For Warden environment preparation, it's good to take [HOW-TO](#) for reference.

## Environment variables

There have some necessary variables to be defined as Jenkins Slave's environment variable to match Warden run-time requirement.

- VCAP\_RUBY19, the ruby path
- WARDEN\_REPL\_V2, the warden command

## Screenshot

- To create a warden container

The screenshot shows the 'Create Warden Container' configuration page. It includes a table for 'Warden Mount Point' with columns for 'Source Path', 'Destination Path', and 'Mount Mode'. Two entries are shown: '\$WORKSPACE' mapped to '/tmp/workspace' with 'Read Only' mode, and '\$VCAP\_RUBY19' mapped to '/tmp/ruby19' with 'Read Only' mode. Below this is a section for 'Enable Warden Limits' with a dropdown for 'Limit Disk' (set to 'No Limit'), 'Limit Memory' (set to '1G'), and 'Limit Bandwidth' (set to '512M'). There is also a checkbox for 'Ignore Password' and a 'Grace Time' field set to '200'.

- To copy a file from host into warden container

The screenshot shows the 'Warden Copy In Action' configuration page. It features a table with 'Source Path' and 'Destination Path' columns. Two entries are present: '~/.ssh' copied to '~/' and '\$WORKSPACE/test.txt' copied to '/tmp/'. There are 'Delete' buttons for each entry and an 'Add More' button at the bottom.

- To run some script in the warden container

The screenshot shows the 'Warden Script Execution' configuration page. It has a 'Warden Script' section with a 'Command' field containing a bash script: '#!/bin/bash', 'set -x', and several lines of environment setup and status checks. There are 'Delete' and 'Add' buttons at the bottom of the script field.

- To copy some files out of warden container for host using

Warden Copy Out Action ?

Source Path	Destination Path	
/tmp/reports	\$WORKSPACE	Delete
		Add More
		Delete

## Release Notes

### Version 0.1 (18/01/2013)

- Warden container creation
- Mount Points
- Ignore Password
- Set limitation for Disk, Memory and Bandwidth
- Grace Time
- Copy-in & Copy-out
- Warden Script execution