

Jenkins Job For Building CollectD Exporter Using Jenkinsfile

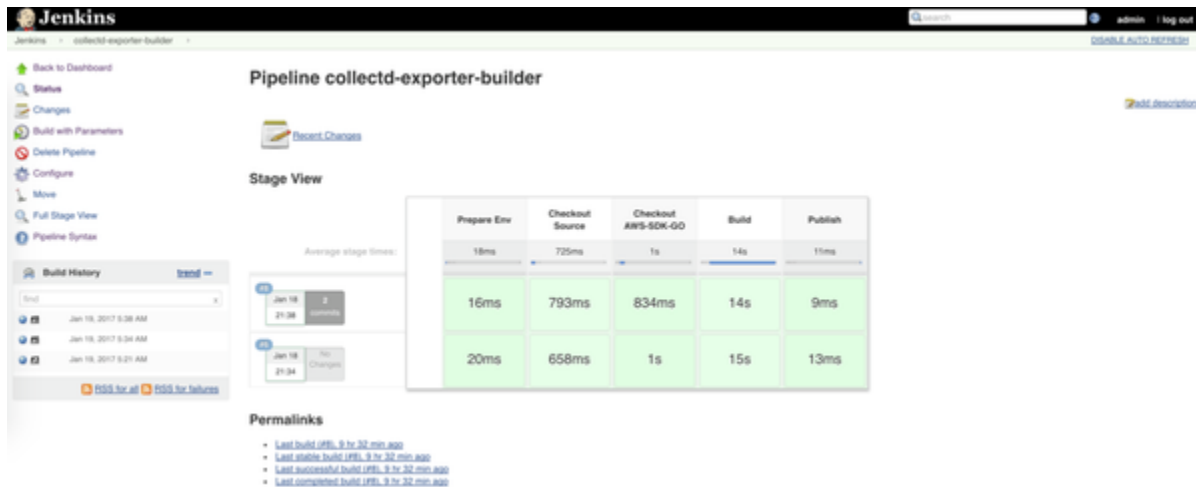
- Purpose
- collectd-exporter-builder Jenkins Job
- Job Parameters
- Pipeline Configuration
- Job Configuration File

Purpose

- This document describe how to setup a Jenkins Pipeline job to build CollectD Exporter binary artifact.

collectd-exporter-builder Jenkins Job

- collectd-exporter-builder is a Jenkins Pipeline job which allows us to execute the build by providing a Jenkinsfile describing the steps to make the build.
- It is also a parameterized job which allows user to specify different values to customize the build.



Job Parameters

Type	Name	Note
String	GitRepoUrl	<ul style="list-style-type: none">• URL to the source repository
String	Branch	<ul style="list-style-type: none">• Name of the branch to build
String	GoLangVersion	<ul style="list-style-type: none">• Go version to use
Credentials	GitRepoCredentialId	<ul style="list-style-type: none">• Id of the credentials configured on Jenkins server• Credentials should allow Jenkins to checkout source code
Choice	GOOS	<ul style="list-style-type: none">• Target Operating System of the platform which binary will run on• See https://github.com/golang/go/blob/master/src/go/build/syslist.go
Choice	GOARCH	<ul style="list-style-type: none">• Target CPU Architecture of the platform which binary will run on• See https://github.com/golang/go/blob/master/src/go/build/syslist.go

Jenkins admin log out

Jenkins > collectd-exporter-builder

[Back to Dashboard](#)
[Status](#)
[Changes](#)
[Build with Parameters](#)
[Delete Pipeline](#)
[Configure](#)
[Move](#)
[Full Stage View](#)
[Pipeline Syntax](#)

Pipeline collectd-exporter-builder

This build requires parameters:

GitRepoUrl:

Branch:

GoLangVersion:

GitRepoCredentialId: [Add](#)

GOOS:

GOARCH:

[Build](#)

Build History [trend](#)

find

- Jan 19, 2017 5:38 AM
- Jan 19, 2017 5:34 AM
- Jan 19, 2017 5:21 AM

RUS for all RUS for failures

Pipeline Configuration

Pipeline

Definition:

SCM:

Repositories:

Repository URL:

Credentials: [Add](#)

[Advanced...](#)

[Add Repository](#)

Branches to build:

Branch Specifier (blank for 'any'):

[Add Branch](#)

Repository browser:

Additional Behaviours:

☐ Clean before checkout

☐ Check out to specific local branch

Branch name:

[Add](#)

Script Path:

[Pipeline Syntax](#)

Job Configuration File

- A sample Jenkins job configuration file is included here for reference. It has to be modified to use the actual credentials id configuration on Jenkins server.

Click here to expand...

```
<?xml version='1.0' encoding='UTF-8'?>
<flow-definition plugin="workflow-job@2.9">
  <actions/>
  <description></description>
```

```

<keepDependencies>false</keepDependencies>
<properties>
  <jenkins.model.BuildDiscarderProperty>
    <strategy class="hudson.tasks.LogRotator">
      <daysToKeep>-1</daysToKeep>
      <numToKeep>10</numToKeep>
      <artifactDaysToKeep>-1</artifactDaysToKeep>
      <artifactNumToKeep>-1</artifactNumToKeep>
    </strategy>
  </jenkins.model.BuildDiscarderProperty>
</hudson.model.ParametersDefinitionProperty>
  <parameterDefinitions>
    <hudson.model.StringParameterDefinition>
      <name>GitRepoUrl</name>
      <description>Git repository URL</description>

<defaultValue>https://github.com/dev9com/collectd_exporter.git</default
tValue>
    </hudson.model.StringParameterDefinition>
    <hudson.model.StringParameterDefinition>
      <name>Branch</name>
      <description>branch to build</description>
      <defaultValue>issue-49</defaultValue>
    </hudson.model.StringParameterDefinition>
    <hudson.model.StringParameterDefinition>
      <name>GoLangVersion</name>
      <description>Go version</description>
      <defaultValue>golang:1.7.4</defaultValue>
    </hudson.model.StringParameterDefinition>

    <com.cloudbees.plugins.credentials.CredentialsParameterDefinition
plugin="credentials@2.1.10">
      <name>GitRepoCredentialId</name>
      <description>git credential to access
repository</description>

      <!-- TODO replace with actual credentials id configured on
Jenkins -->
      <defaultValue>github_XXX</defaultValue>

    <credentialType>com.cloudbees.plugins.credentials.impl.UsernamePasswor
dCredentialsImpl</credentialType>
      <required>true</required>

  </com.cloudbees.plugins.credentials.CredentialsParameterDefinition>
  <hudson.model.ChoiceParameterDefinition>
    <name>GOOS</name>
    <description>Target Environment Operation System.

```

See

```

https://github.com/golang/go/blob/master/src/go/build/syslist.go</description>
    <choices class="java.util.Arrays$ArrayList">
      <a class="string-array">
        <string>linux</string>
        <string>darwin</string>
        <string>windows</string>
      </a>
    </choices>
  </hudson.model.ChoiceParameterDefinition>
</hudson.model.ChoiceParameterDefinition>
  <name>GOARCH</name>
  <description>Target Environment CPU Architecture.

See https://github.com/golang/go/blob/master/src/go/build/syslist.go
</description>
    <choices class="java.util.Arrays$ArrayList">
      <a class="string-array">
        <string>amd64</string>
        <string>386</string>
      </a>
    </choices>
  </hudson.model.ChoiceParameterDefinition>
</parameterDefinitions>
</hudson.model.ParametersDefinitionProperty>

<org.jenkinsci.plugins.workflow.job.properties.PipelineTriggersJobProperty>
  <triggers/>

</org.jenkinsci.plugins.workflow.job.properties.PipelineTriggersJobProperty>
  </properties>
  <definition
class="org.jenkinsci.plugins.workflow.cps.CpsScmFlowDefinition"
plugin="workflow-cps@2.24">
    <scm class="hudson.plugins.git.GitSCM" plugin="git@3.0.1">
      <configVersion>2</configVersion>
      <userRemoteConfigs>
        <hudson.plugins.git.UserRemoteConfig>
          <url>https://github.com/dev9com/collectd_exporter</url>
        </hudson.plugins.git.UserRemoteConfig>
      </userRemoteConfigs>
      <branches>
        <hudson.plugins.git.BranchSpec>
          <name>*/master</name>
        </hudson.plugins.git.BranchSpec>
      </branches>

    <doGenerateSubmoduleConfigurations>false</doGenerateSubmoduleConfigura

```

```
tions>
  <submoduleCfg class="list"/>
  <extensions>
    <hudson.plugins.git.extensions.impl.CleanBeforeCheckout/>
    <hudson.plugins.git.extensions.impl.LocalBranch>
      <localBranch>&quot;&quot;&quot;</localBranch>
    </hudson.plugins.git.extensions.impl.LocalBranch>
  </extensions>
</scm>
<scriptPath>Jenkinsfile</scriptPath>
```

```
</definition>  
<triggers/>  
</flow-definition>
```