How to write Pipeline to discard old builds?

The groovy syntax generator is NOT working for sample step `properties: Set Job Properties` . I've selected entered `10` in the `Max # of builds to keep` field and then `Generate Groovy` and nothing shows up.

Jenkins version: 2.7

jenkins   jenkins-pipeline

> Works fine for me with Jenkins 2.32.3 – Michel Jung Apr 4 at 13:58

4 Answers

You can use the `properties` method which, nested within the `BuildDiscarderProperty` eventually has the key you want to set. I still don't have a solid way to look up the correct syntax of each key. After much guessing and checking:

```
properties([[$class: 'BuildDiscarderProperty', strategy: [$class: 'LogRotator',
artifactDaysToKeepStr: '', artifactNumToKeepStr: '', daysToKeepStr: '', numToKeepStr:
'10']]]);
```

Note that this snippet is for scripted syntax.

As for declarative syntax, you can use the `options` block:

```
pipeline {
  options {
    buildDiscarder(logRotator(numToKeepStr: '30', artifactNumToKeepStr: '30'))
  }
  ...
}
```

Parameters for `logRotator` (from the source code):

- `daysToKeepStr` : history is only kept up to this days.
- `numToKeepStr` : only this number of build logs are kept.
- `artifactDaysToKeepStr` : artifacts are only kept up to this days.
- `artifactNumToKeepStr` : only this number of builds have their artifacts kept.

More information can be found in Cloudbees knowledge base and in the docs for `options` block.

Vadim's answer did not work for me for some unknown reason. I simplified it down as follows and it works now:

```
options {
    buildDiscarder(logRotator(numToKeepStr: '3'))
}
```

1. To Discard build after particular number of **days**:

   ```
   options {
       buildDiscarder(logRotator(daysToKeepStr: '7'))
   }
   ```

2. To Discard build after particular number of **builds**:

   ```
   options {
       buildDiscarder(logRotator(numToKeepStr: '7'))
   }
   ```

I can't see any major differences from my answer.. – Vadim Kotov Nov 7 at 13:47

Just added number of days to keep the builds, apart from the total number of builds to keep :) – Jerald Sabu M Nov 7 at 13:53

You should use comments for such type of things. I've updated my answer accordingly. – Vadim Kotov Nov 7 at 14:03

I don't have reputation for adding comment. – Jerald Sabu M Nov 16 at 14:05

Now you have. But in general, if you have no reputation, you shouldn't answer instead of commenting. – Vadim Kotov Nov 16 at 14:07 ✏