

# Jenkins cleanup

## Clearing all jobs workspaces to get free up disk space

### Step-by-step guide

- Go to <https://jenkins.PROJECTX.tds.CUSTOMERX.COM/script>
- Enter following script that clears workspaces on master:

```
import hudson.model.*

deleteWorkspace (Hudson.instance.items)

def deleteWorkspace (items) {
    for (item in items) {
        if (item.class.canonicalName != null
            && item.class.canonicalName != "com.cloudbees.hudson.plugins.folder.Folder"
            && item.class.canonicalName != "org.jenkinsci.plugins.workflow.job.WorkflowJob"
            && item.class.canonicalName != "com.github.mjdetullio.jenkins.plugins.multibranch.
MavenMultiBranchProject"
            && item.class.canonicalName != "org.jenkinsci.plugins.workflow.multibranch.
WorkflowMultiBranchProject"
            && item.class.canonicalName != "hudson.model.ExternalJob") {
            println("Item of type "+item.class.canonicalName+" found")
            if(!item.isBuilding()) {
                println("Wiping out workspace of job "+item.name)
                item.doDoWipeOutWorkspace()
            } else {
                println("Skipping job "+item.name+", currently building")
            }
        } else if (item.class.canonicalName == "com.cloudbees.hudson.plugins.folder.Folder") {
            println("Item is folder with name "+item.name)
            deleteWorkspace(((com.cloudbees.hudson.plugins.folder.Folder) item).getItems())
        } else {
            println("Item of type "+item.class.canonicalName + " cannot have its workspace cleaned")
        }
    }
}
```

Eventually you can clear also all nodes/agents also:

```
def deleted = []
def oneDayAgo = new Date() - 1
jenkins.model.Jenkins.instance.nodes.each { hudson.model.Node node ->
    node.workspaceRoot.listDirectories().each { hudson.FilePath path ->
        def pathName = path.getRemote()
        if (path.name.startsWith(".")) {
            println "Skipping internal dir $node.displayName:$pathName"
        } else {
            def lastModified = new Date(path.lastModified())
            if (lastModified < oneDayAgo) {
                println "Deleting workspace at $node.displayName:$pathName (last modified $lastModified)"
                path.deleteRecursive()
                deleted << "$node.displayName:$pathName"
            } else {
                println "Skipping workspace at $node.displayName:$pathName (last modified $lastModified)"
            }
        }
    }
}
"Deleted workspaces: \n\t" + deleted.sort().join("\n\t")
```

## script to delete old builds

Here is a sample Groovy script you can use

```
import hudson.model.*

def jobName = "YOUR_JOB_NAME" // Replace with your job name
def daysToKeep = 20

def job = Jenkins.instance.getItem(jobName)

job.getItems().each { jobItem ->
    if (jobItem instanceof Job) {
        jobItem.getBuilds().findAll { build ->
            def buildDate = new Date(build.getTimeInMillis())
            def currentDate = new Date()
            def diffDays = (currentDate - buildDate) / (1000 * 60 * 60 * 24)
            diffDays > daysToKeep
        }.each { build ->
            println "Deleting build #${build.number} (${build.time})"
            build.delete()
        }
    }
}
```

Make sure to replace ``YOUR\_JOB\_NAME`` with the name of your multibranch pipeline job. and daysToKeep with something you want, here is 20 days



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## Related articles

- Inspired by <https://blog.yasithab.com/centos/clean-up-jenkins-workspaces-using-groovy/>
- [Jenkins cleanup](#)
- [Jira Project Admin guide for beginners](#)
- [How to make new Lets Encrypt CA certificates trusted](#)
- [How convert SSH Keys to PPK Format?](#)
- [How to generate a SSH Key in a Windows](#)