

### Entwicklungsumgebungen

<https://job-dsl.herokuapp.com/>

Playground zur Jobs DSL

### Plugins - Build Trigger

\* <https://plugins.jenkins.io/selfie-trigger-plugin>

\*

### Pipeline Trigger Job

```
# Build Trigger - Zeitgesteuert
TZ=Europe/Berlin
@midnight
# Pipeline - Definition Pipelinscript
node {
    stage("mypocketmod") {
        try {
            build 'mypocketmod/master'
        } catch (err) {
            echo "Caught: ${err}"
        }
        try {
            build 'rades-annotations'
        } catch (err) {
            echo "Caught: ${err}"
        }
        try {
            build 'localmod'
        } catch (err) {
            echo "Caught: ${err}"
        }
    }
}
```

### Monitoring API

#### Simple Job

Buildstatus URL: `jenkinsurl/job/jobName/lastBuild/api/json`

Beispiel: `http://stachel:8090/job/rades-annotations/lastBuild/api/json`

#### Multibranch Pipeline Plugin

Buildstatus URL: `jenkinsurl/job/repoName/job/BranchName/lastBuild/api/json`

Beispiel: `http://stachel:8090/job/mypocketmod/job/master/lastBuild/api/json`

Im Response sind die wichtigen Felder:

```
* response.displayName
* response.result
{
  "_class": "hudson.model.FreeStyleBuild",
  "actions": [
    {
      "_class": "hudson.model.CauseAction",
      "causes": [
        {
          "_class": "hudson.model.Cause$UpstreamCause",
          "shortDescription": "Gestartet durch vorgelagertes Projekt „NighlyTrigger“, Build 6",
          "upstreamBuild": 6,
          "upstreamProject": "NighlyTrigger",
          "upstreamUrl": "job/NighlyTrigger/"
        }
      ]
    },
    {}
  ],
  "_class": "hudson.plugins.git.util.BuildData",
  "buildsByBranchName": {
    "refs/remotes/origin/master": {
      "_class": "hudson.plugins.git.util.Build",
      "buildNumber": 6,
      "buildResult": null,
```



By **Huluvu424242**  
(FunThomas424242)

Published 15th September, 2019.  
Last updated 12th October, 2019.  
Page 1 of 3.

Sponsored by **Readable.com**  
Measure your website readability!  
<https://readable.com>

### Monitoring API (cont)

```

    "marked": {
      "SHA1": "d68e6e7cbc7155a549e48-
0e7354a6e64493382fa",
      "branch": [
        {
          "SHA1": "d68e6e7cbc7155a-
549e480e7354a6e64493382fa",
          "name": "refs/remotes/or-
igin/master"
        }
      ]
    },
    "revision": {
      "SHA1": "d68e6e7cbc7155a549e48-
0e7354a6e64493382fa",
      "branch": [
        {
          "SHA1": "d68e6e7cbc7155a-
549e480e7354a6e64493382fa",
          "name": "refs/remotes/or-
igin/master"
        }
      ]
    }
  },
  "lastBuiltRevision": {
    "SHA1": "d68e6e7cbc7155a549e480e7354-
a6e64493382fa",
    "branch": [
      {
        "SHA1": "d68e6e7cbc7155a549e48-
0e7354a6e64493382fa",
        "name": "refs/remotes/origin/m-
aster"
      }
    ]
  },
  "remoteUrls": [
    "https://github.com/FunThomas424242/r-
ades-annotations.git"
  ],

```

### Monitoring API (cont)

```

    "scmName": ""
  },
  {
    "_class": "hudson.plugins.git.GitTagAc-
tion"
  },
  {},
  {},
  {}
],
"artifacts": [],
"building": false,
"description": null,
"displayName": "#6",
"duration": 28582,
"estimatedDuration": 47475,
"executor": null,
"fullDisplayName": "rades-annotations #6",
"id": "6",
"keepLog": false,
"number": 6,
"queueId": 39,
"result": "SUCCESS",
"timestamp": 1568557708973,
"url": "http://stachel:8090/job/rades-annota-
tions/6/",
"builtOn": "",
"changeSet": {
  "_class": "hudson.plugins.git.GitChangeSe-
tList",
  "items": [],
  "kind": "git"
},
"culprits": []
}

```

Quelle: <https://serverfault.com/questions/309848/how-do-i-check-the-build-status-of-a-jenkins-build-from-the-command-line>



By **Huluvu424242**  
(FunThomas424242)

Published 15th September, 2019.  
Last updated 12th October, 2019.  
Page 2 of 3.

Sponsored by **Readable.com**  
Measure your website readability!  
<https://readable.com>

### Spielejenkins im Internet bereitstellen

Lässt sich über Docker für max. 3h realisieren:

1. Aufruf der Dockerspielwiese: <https://labs.play-with-docker.com>
2. Add new Instanz
3. docker pull jenkins
4. docker run -p 8080:8080 -p 50000:50000 jenkins
5. Ablesen der IP und Ports der Umgebung
6. Öffnen der Jenkinsseite über den ausgelesenen 8080 z.B.  
<http://ip172-18-0-7-bmh2hhlfn20008g21v0-8080.direct.labs.play-with-docker.com/login?from=%2F>
7. In der Console nach oben scrollen und das Jenkins admin Passwort herauskopieren. Sieht etwa so aus: fd87362a76514aa997-3631c99257ecb4
8. Im geöffneten Jenkins anmelden (mit dem Passwort)

Manchmal machte die Installation mit default Plugins Probleme, daher besser erstmal keine zu installieren und dann manuell später nachholen

### Jenkins - Monitore

<a href="https://github.com/gg-irou/yet-another-jenkins-notifier">https://github.com/gg-irou/yet-another-jenkins-notifier</a>	Chrome Extension	Nur auf Jobebene bei aktiver Authentifizierung
---	------------------	--

<a href="https://github.com/zi-onyx/jenkins-tray">https://github.com/zi-onyx/jenkins-tray</a>	Natives Binary	Multi Jenkins Support mit Tray aber die Liste öffnet im extra Fenster
---	----------------	---

=====	=====	=====
HudsonTracker		Unterstützt die Jenkins Authorisierung nicht

<a href="http://fieryjoy.com/kato">http://fieryjoy.com/kato</a>	Natives Binary	Benötigt Download
---	----------------	-------------------

### Zeitgesteuerte Ausführung

#### Pipeline mit Jenkinsfile

```
pipeline {
  agent any
  triggers {
    cron('H /4 * 1-5')
  }
  stages {
    stage('Example') {
      steps {
        echo 'Hello World'
      }
    }
  }
}
```

```
String cron_string = BRANCH_NAME == "master" ? "@hourly" : ""
```

```
pipeline {
  agent none
  triggers { cron(cron_string) }
  stages {
    // do something
  }
}
```

#### Quellen:

- \* <https://stackoverflow.com/questions/32028761/jenkins-build-pipeline-scheduled-trigger>
- \* <https://stackoverflow.com/questions/39168861/build-periodically-with-a-multi-branch-pipeline-in-jenkins/44902622#44902622>



By **Huluvu424242**  
(FunThomas424242)

Published 15th September, 2019.  
Last updated 12th October, 2019.  
Page 3 of 3.

Sponsored by **Readable.com**  
Measure your website readability!  
<https://readable.com>

[cheatography.com/funthomas424242/](https://cheatography.com/funthomas424242/)  
[stackoverflow.com/users/story/373498](https://stackoverflow.com/users/story/373498)