Requirements

Set up an environment with:

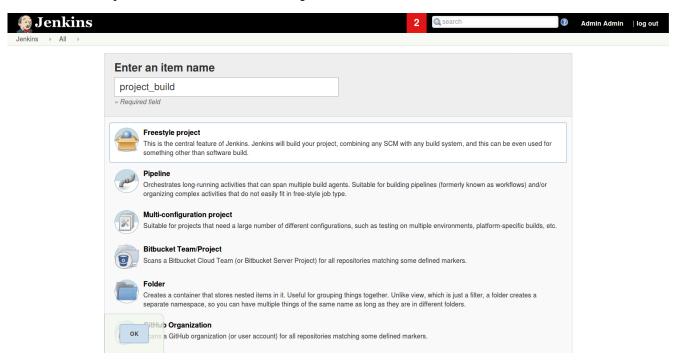
- Jenkins with Gerrit-Trigger plugin installed and configured (Docs: https://wiki.jenkins.io/display/JENKINS/Gerrit+Trigger#GerritTrigger-Gerritaccessrights)
- Gerrit
- FOSSID WebApp

Install FOSSID plugin for Jenkins

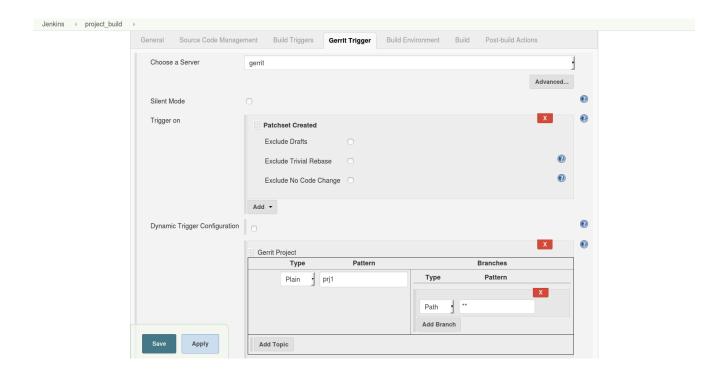
From Jenkins > Manage Jenkins > Manage Plugins > Advanced tab> Upload plugin file

"FOSSID.hpi" and restart Jenkins. Copy the configuration file "fossid.properties" to an accessible location (ex. /var/jenkins_home/fossid.properties) and edit it according to your use case,

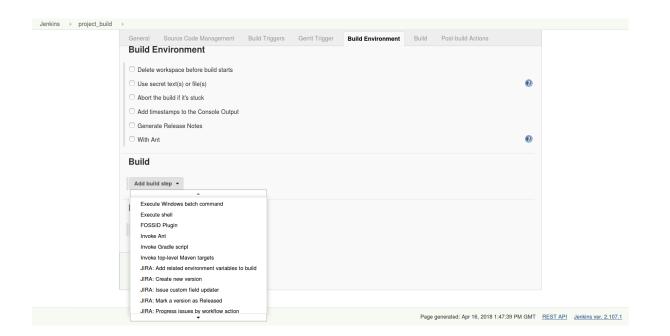
Create Jenkins job with FOSSID build step:



In the Build Triggers area select Gerrit Trigger



Click on add "Build step" and select FOSSID:



Give a name and set correct path the configuration file (.properties Java file).



The workflow and the configuration file fossid.properties:

We will assume 3 servers:

- server A has Jenkins installed
- server B has Gerrit installed and the git repo
- server C has FOSSID WebApp installed

When users will push changes to Git repo (server B) an event will be triggered to server A, which will initiate the job on Jenkins server. The FOSSID Plugin will communicate with the FOSSID WebApp (server C) and will check if there is a project and scan created. If there is not, it will try to create it. Prior to creating the actual scan a target path (on server C) will be created, which will be passed as argument to FOSSID API when creating the scan and the patch file from Gerrit will be copied to the target path. Scan will be executed on server C and the results will be sent by the FOSSID plugin (Server A) to Gerrit (server B).

Use case 1

In the use case 1 for each commit in Gerrit a new scan is created in FOSSID WebApp. The scan name is based on \$GEERIT_PROJECT and \$GERRIT_CHANGE_ID. Also the target path will have this structure: /some/path/\$GERRIT_PROJECT/\$GERRIT_CHANGE_ID. This path will used for copying files and will be fed as target_path when creating the scan in FOSSID WebApp.

The operations related to creating target path, download patch file from Gerrit and copying it to target path, send feedback to Gerrit will be executed by scripts outside of the FOSSID plugin which are mentioned in the configuration file fossid.properties.

Below you can see how the default fossid.properties look like:

```
api url = http://YOUR FOSSID APP/webapp/api.php
api_user = some_user
api_key = some_password
use case = 1
# Number of times FOSSID Jenkins plugin will check if the scan finished on FOSSID WebApp
fossid scan number of tries = 100
# Number of seconds before calls to FOSSID WebApp in order to check for finished scanning.
fossid scan wait time = 10
# A command or a script that creates the folder structure based on $GERRIT PROJECT and $GERRIT CHANGE ID
cmd\_create\_target\_path = ssh \ mysuser@fossid\_server \ mkdir -p /some\_path/\$GERRIT\_PROJECT/\$GERRIT\_CHANGE\_ID /some\_path/\$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_path/$GERRIT\_CHANGE\_ID /some\_p
# Target path that will be used when creating the scan using the FOSSID API
target_path = /some_path/$GERRIT_PROJECT/$GERRIT_CHANGE_ID
# A command or script which copies the pathset from Gerrit to the target path
# Sugestion for how to download patchset from Gerrit: curl -o /var/jenkins_home/downloads/$GERRIT_PATCHSET_REVISION.zip
http://gerrit:8080/changes/$GERRIT_CHANGE_NUMBER/revisions/$GERRIT_PATCHSET_REVISION/patch?zip
cmd_copy_patch_files_to_target_path = /var/jenkins_home/my_special_script.sh
# A command or script which returns FOSSID result to Gerrit. It will receive from FOSSID Jenkins plugin the variable $FOSSID_SCAN_RESULT
cmd_send_feedback_to_gerrit = ssh -p 29418 myuser@gerrit_server gerrit review -p $GERRIT_PROJECT -m $FOSSID_SCAN_RESULT
$GERRIT PATCHSET REVISION
```

Use case 2

In the use case 2 there is just one scan created in FOSSID WebApp for each branch found in Gerrit. The scan name is based on \$GEERIT_PROJECT and \$GERRIT_BRANCH environment variables. Also the target path will have this structure: /some/path/\$GERRIT_PROJECT/\$GERRIT_BRANCH. This path will used for copying files and will be fed as target_path when creating the scan in FOSSID WebApp. After each commit in Gerrit the FOSSID Jenkins plugin will be triggered, the new patchset file will be copied to the target path and FOSSID scan will be executed again with delta only option.

```
api_user = some_user

api_user = some_user

api_key = some_password

use_case = 2

# Number of times FOSSID Jenkins plugin will check if the scan finished on FOSSID WebApp

fossid_scan_number_of_tries = 100

# Number of seconds before calls to FOSSID WebApp in order to check for finished scanning.

fossid_scan_wait_time = 10

# A command or a script that creates the folder structure based on $GERRIT_PROJECT and $GERRIT_BRANCH

cmd_create_target_path = ssh mysuser@fossid_server mkdir -p /some_path/$GERRIT_PROJECT/$GERRIT_BRANCH

# Target path that will be used when creating the scan using the FOSSID API

target_path = /some_path/$GERRIT_PROJECT/$GERRIT_BRANCH

....
```

In both use cases the result of the scan made by FOSSID WebApp will be displayed in Gerrit:

