**Jenkins Tosca Integration**

**Jenkins Url:**

<http://11.112.92.114:8090/login?from=%2F>

Username: PrabuMA

Password: Tosca123

**Setup Users Permission/access level:**

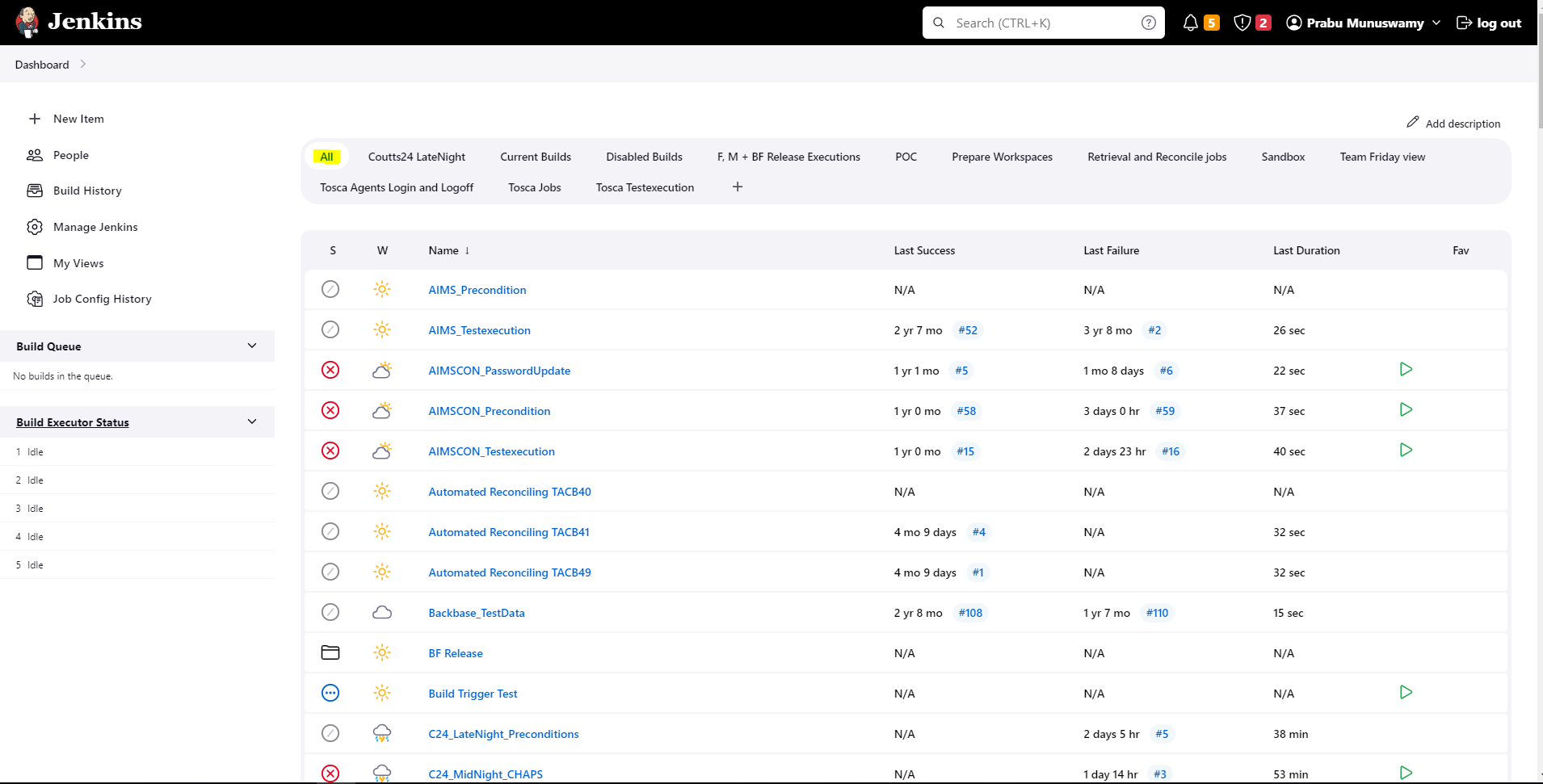
<http://11.112.92.114:8090/manage/>

**Different Views that are created in Jenkins:**

This is basically to group the different jobs that are created in Jenkins.

**All**

This will basically list all the jobs that are created in Jenkins.



[**Tosca Agents Login and Logoff**](http://11.112.92.114:8090/view/Tosca%20Agents%20Login%20and%20Logoff%20/) **– Jobs**

All the login and logoff jobs are grouped under this particular view/folder and all these jobs are configured and scheduled to run daily.

These jobs are to kill all the Dex machines and to restart them.

Citrix Server log off is Scheduled at: 7:00:59 PM daily

And Login job is scheduled twice a day at: 5:30:36 AM & 7:30:36 PM

[**Retrieval and Reconcile jobs**](http://11.112.92.114:8090/view/Retrieval%20and%20Reconcile%20jobs/)**:**

These are the jobs created for: Retrieval and Reconciliation of Password and to update workspace.

We have jobs that does both:

Retrieval and Reconciliation together –

[ToscaCI\_Automated Reconciling and Retrieval TACB41 Read](http://11.112.92.114:8090/view/Retrieval%20and%20Reconcile%20jobs/job/ToscaCI_Automated%20Reconciling%20and%20Retrieval%20TACB41%20Read/)

[ToscaCI\_Automated Reconciling and Retrieval TACB41](http://11.112.92.114:8090/view/Retrieval%20and%20Reconcile%20jobs/job/ToscaCI_Automated%20Reconciling%20and%20Retrieval%20TACB41/)

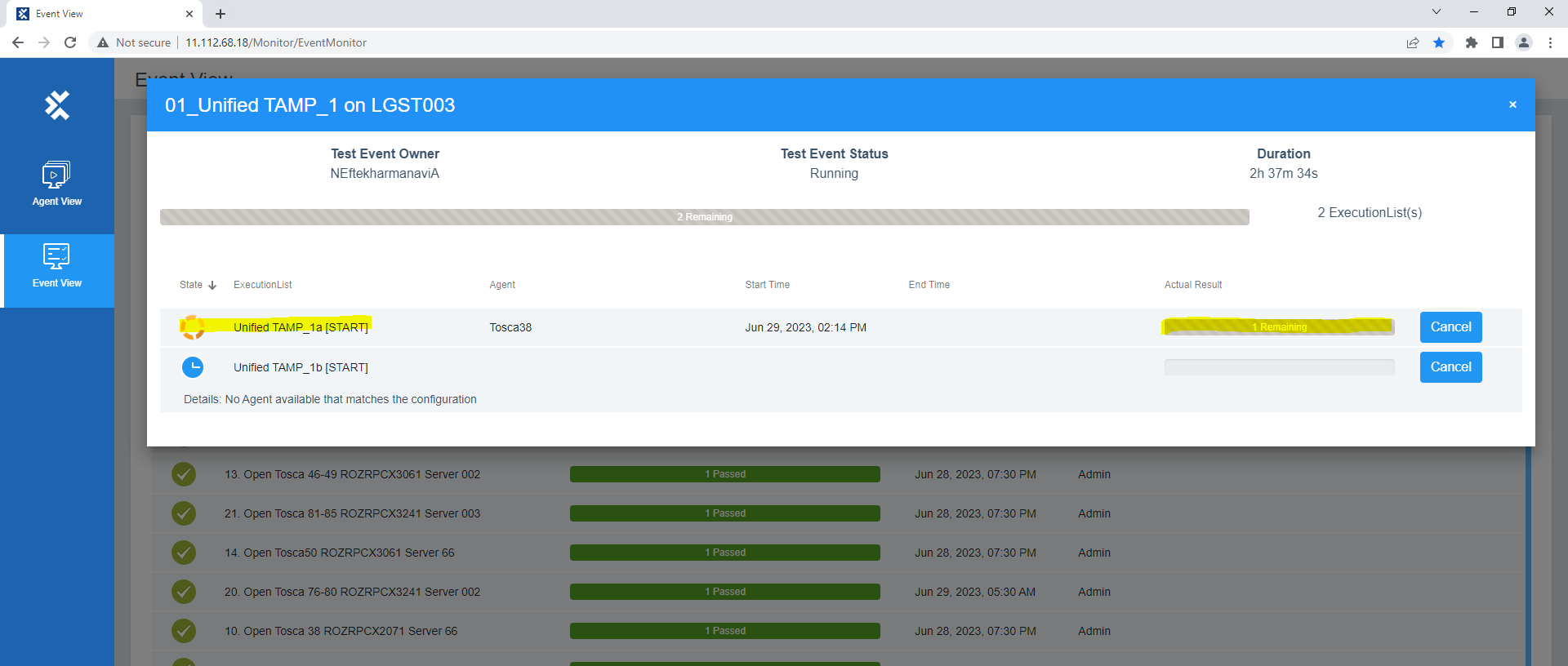
Job to perform Password Retrieval alone - [ToscaCI\_Automated Password Retrieval](http://11.112.92.114:8090/view/Retrieval%20and%20Reconcile%20jobs/job/ToscaCI_Automated%20Password%20Retrieval/)

Job to retrieve the Password and to update the workspace - [Cyberark PW Retrieval Update Workspace](http://11.112.92.114:8090/view/Retrieval%20and%20Reconcile%20jobs/job/Cyberark%20PW%20Retrieval%20Update%20Workspace/)

**Vsphere Purpose:**

For Vsphere access, you need to apply for two adm accounts: hubservice account and systemmanagement account.

If there are jobs that are struck in any Tosca Agents you need to login to Vsphere and clear the jobs.



Refer the: ‘Tosca Technical Users’ confluence page to know the Tosca agents server details:

<https://confluence.base.srvco.net/display/ETA/Tosca+Technical+users>

To anlayze the logs of Dex machine execution why it is stuck up, go to the below path to analyse it:

X:\DistributedExecution\_Moonshot

Login into Vsphere link and open the particular server:

<https://avctesxp001.sysmgmt.srvco.net/>

The stuck up jobs in Tosca agents might be due to:

1. Avaloq crash or not responding. In this situation, close the avaloq and next case will start to run.
2. Distribution agent not responding (Distribution agent turned out in Red colour). In this situation, Right click on the: Distribution Agent icon and click: ‘Stop and Exit the agent’ and click ‘Yes’. To restart the agent: Double click the shortcut: ‘Restart Agent’

**Release In-charge:**

Automated Execution Check List:

<https://confluence.base.srvco.net/display/ETA/AUTOMATED+EXECUTION+CHECKLIST>

Dex Event Monitor:

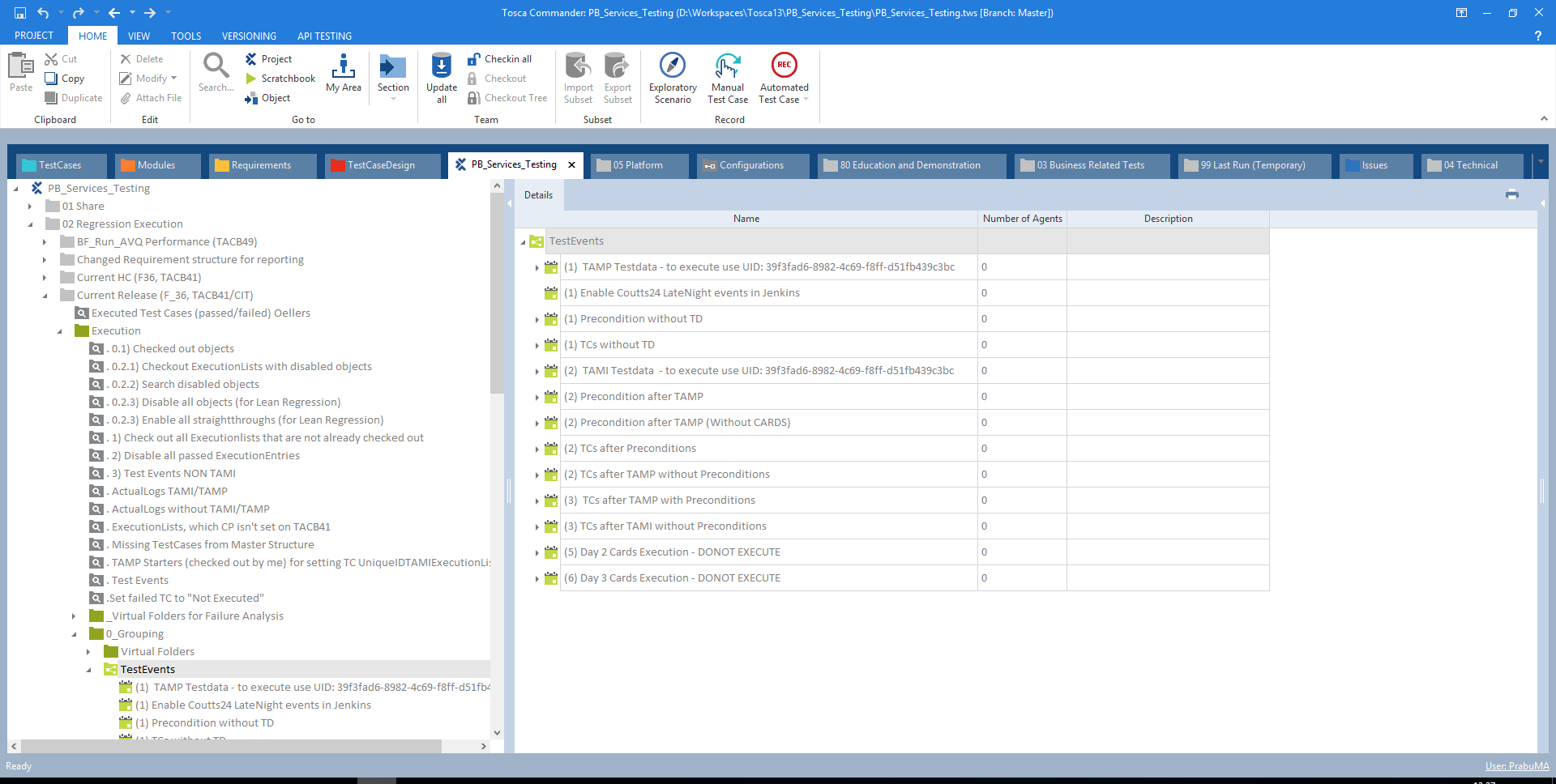
<http://11.112.68.18/Monitor/EventMonitor>

Identify the cases that are running for very long time and fix it.

**Jenkins jobs Grouping:**

Uid: 39fed6e9-7c70-1848-3751-8c02f7f97c80

All the 1’s will get executed first followed by 2 & 3.



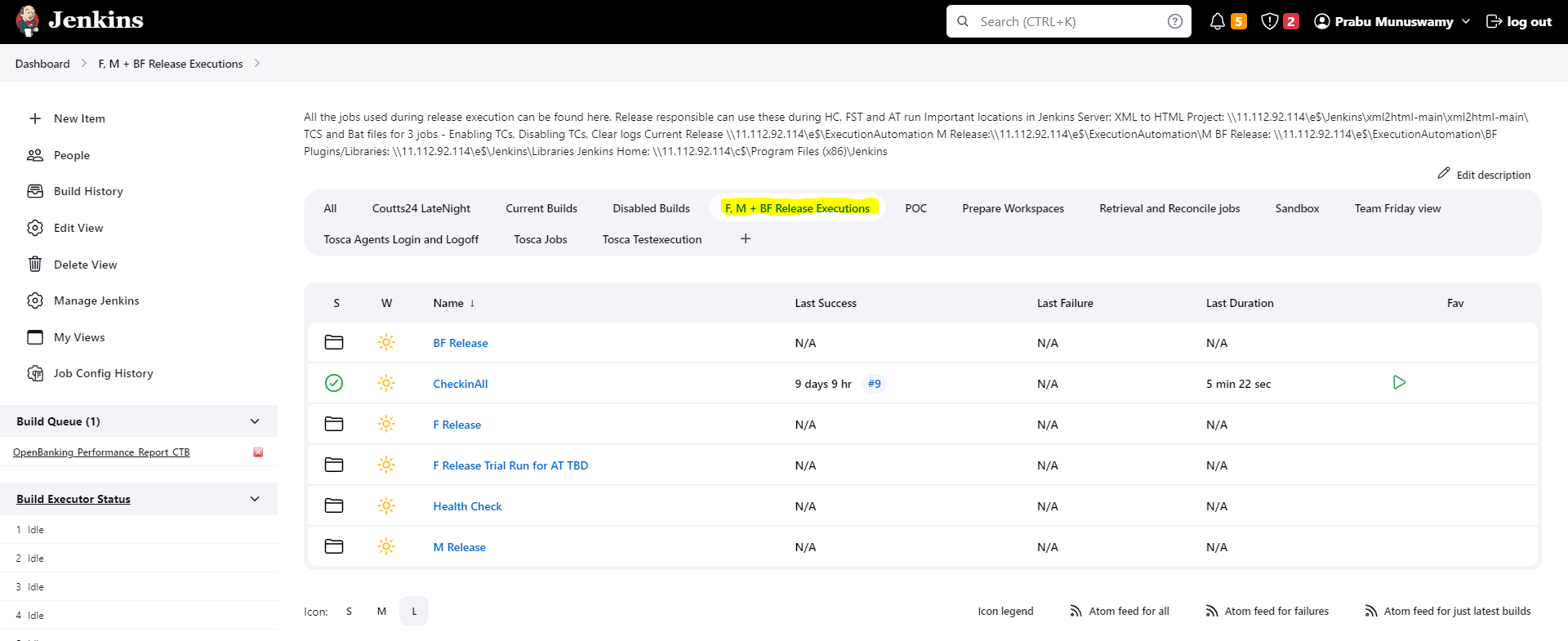
Ignored ones in this group:

(2) Precondition after TAMP

(5) Day 2 Cards Execution - DONOT EXECUTE

(6) Day 3 Cards Execution - DONOT EXECUTE

All the jobs used during release execution can be found here. Release responsible can use these during HC, FST and AT run



[**F, M + BF Release Executions**](http://11.112.92.114:8090/view/F,%20M%20+%20BF%20Release%20Executions/)**:**

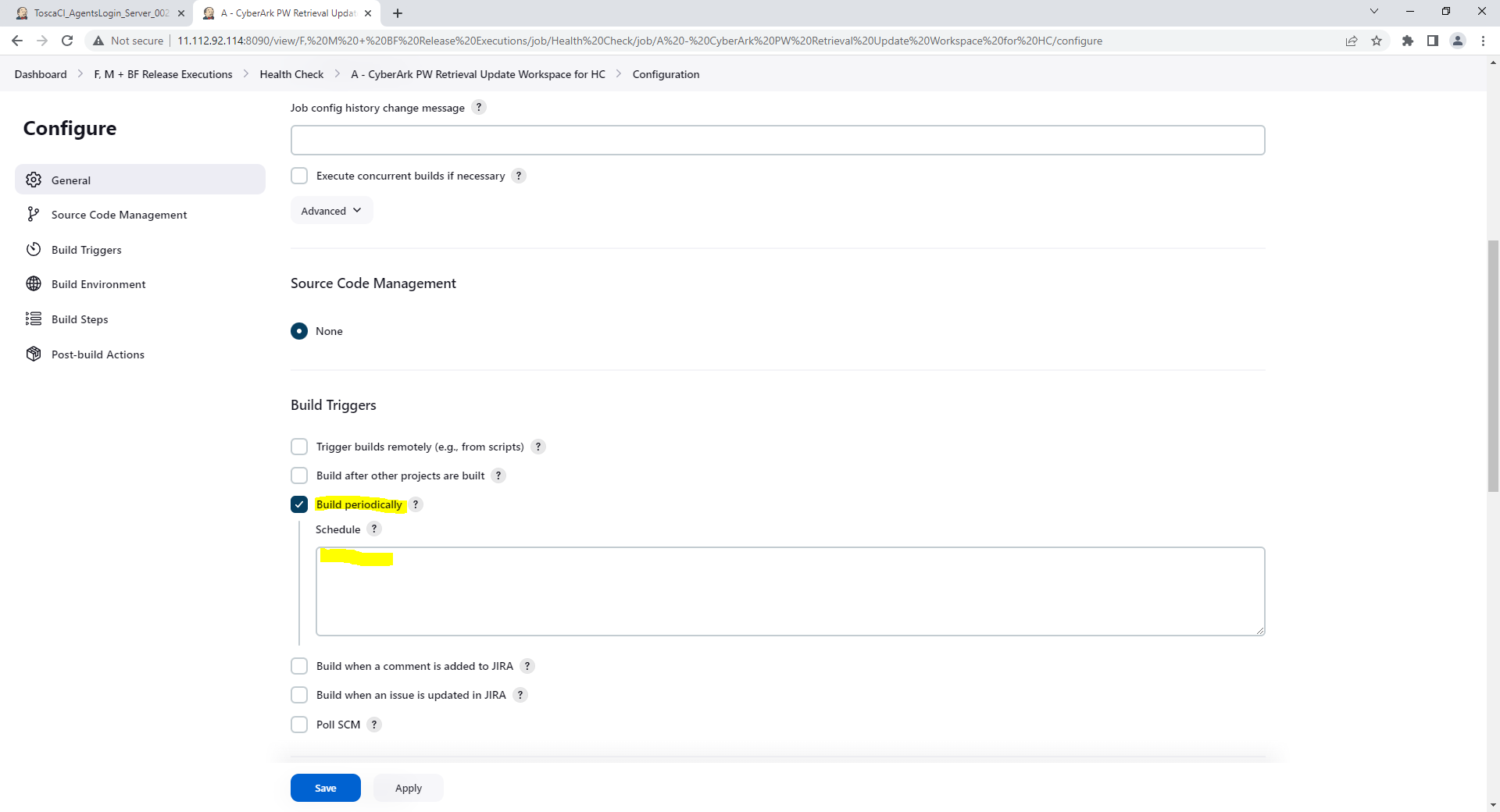
E.g Health Check Execution:

Trigger the very first job prefixed with A - :

[A - CyberArk PW Retrieval Update Workspace for HC](http://11.112.92.114:8090/view/F,%20M%20+%20BF%20Release%20Executions/job/Health%20Check/job/A%20-%20CyberArk%20PW%20Retrieval%20Update%20Workspace%20for%20HC/)

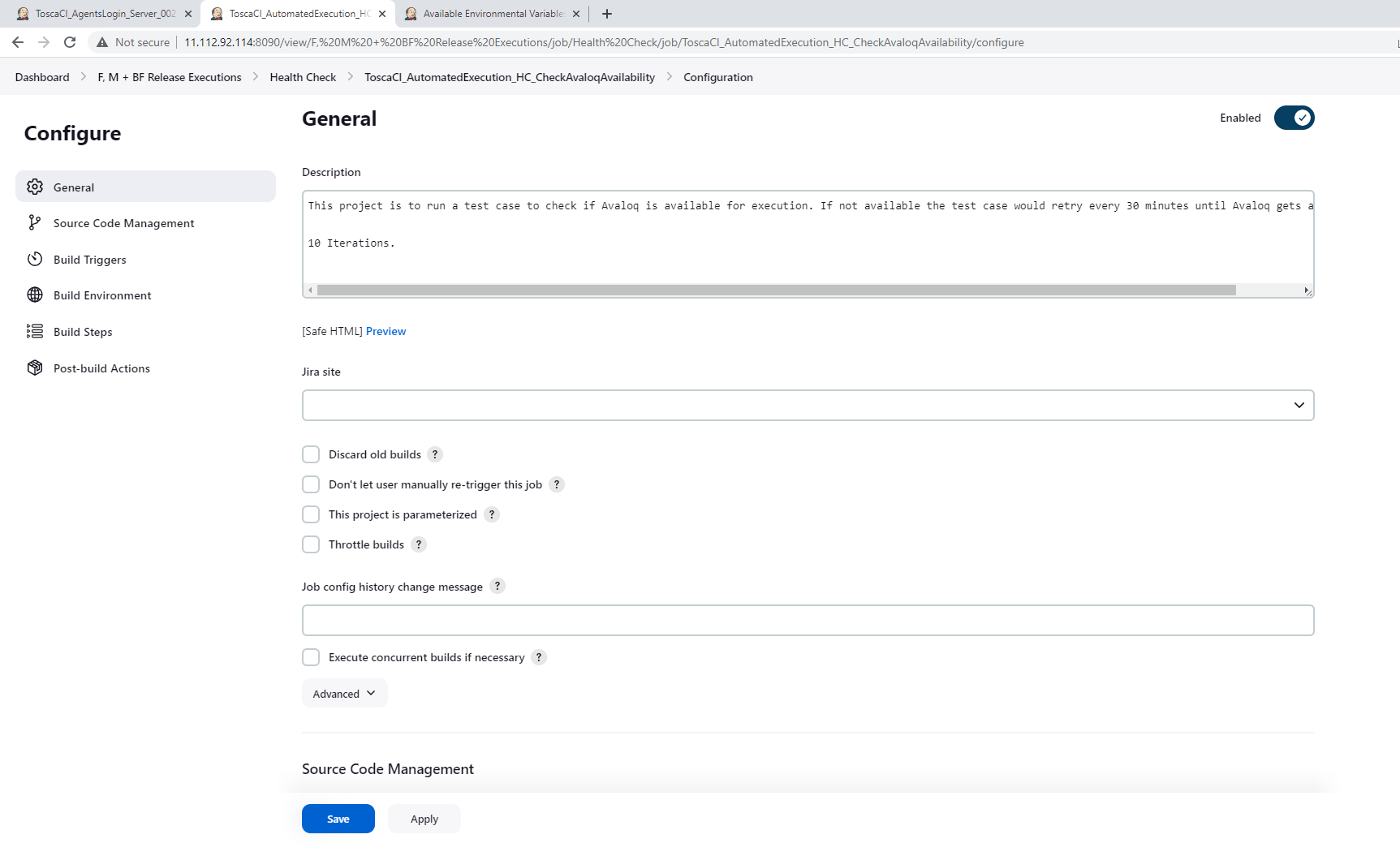
This will trigger all other jobs that are configured as downstream and the full execution flow is taken care.

The release in charge needs to open up this job and set the trigger time that he desires and job will get executed:



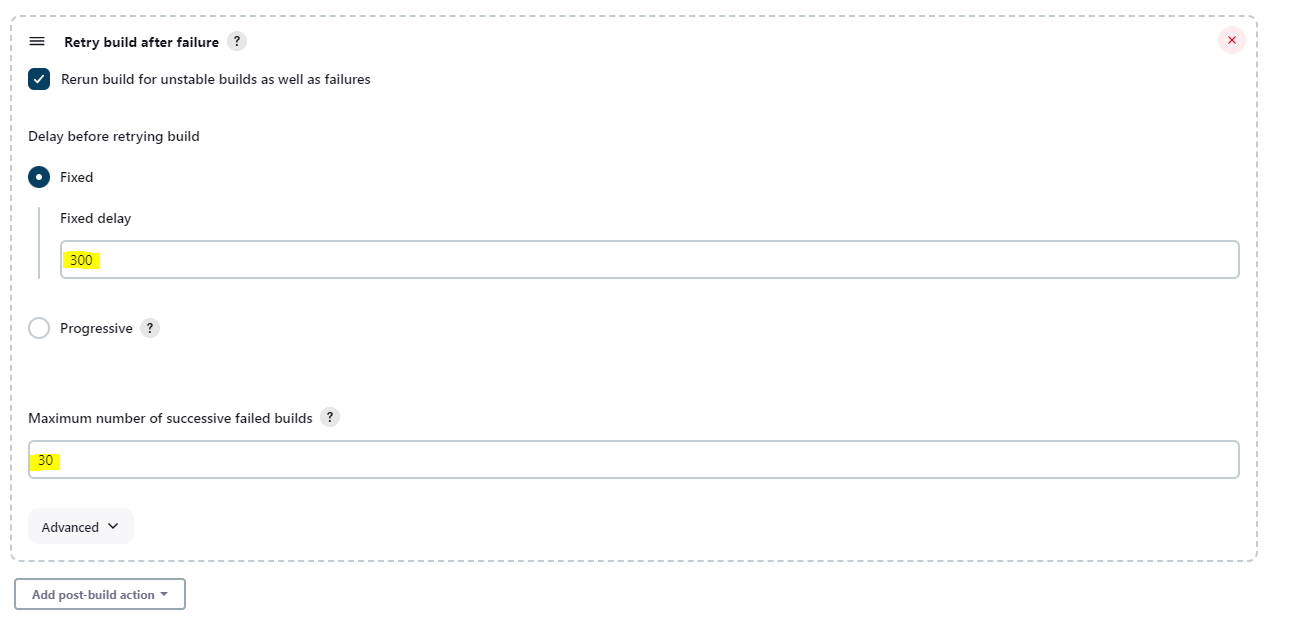
Once this main job is triggered all the downstream jobs will get triggered sequentially.

Analysis of: [ToscaCI\_AutomatedExecution\_HC\_CheckAvaloqAvailability](http://11.112.92.114:8090/view/F,%20M%20+%20BF%20Release%20Executions/job/Health%20Check/job/ToscaCI_AutomatedExecution_HC_CheckAvaloqAvailability/)



This job is configured with: **Retry build after failure**

If this job Avaloq login is not successful it will retry the same job for every 30 minutes for 30 iterations until it is successful.



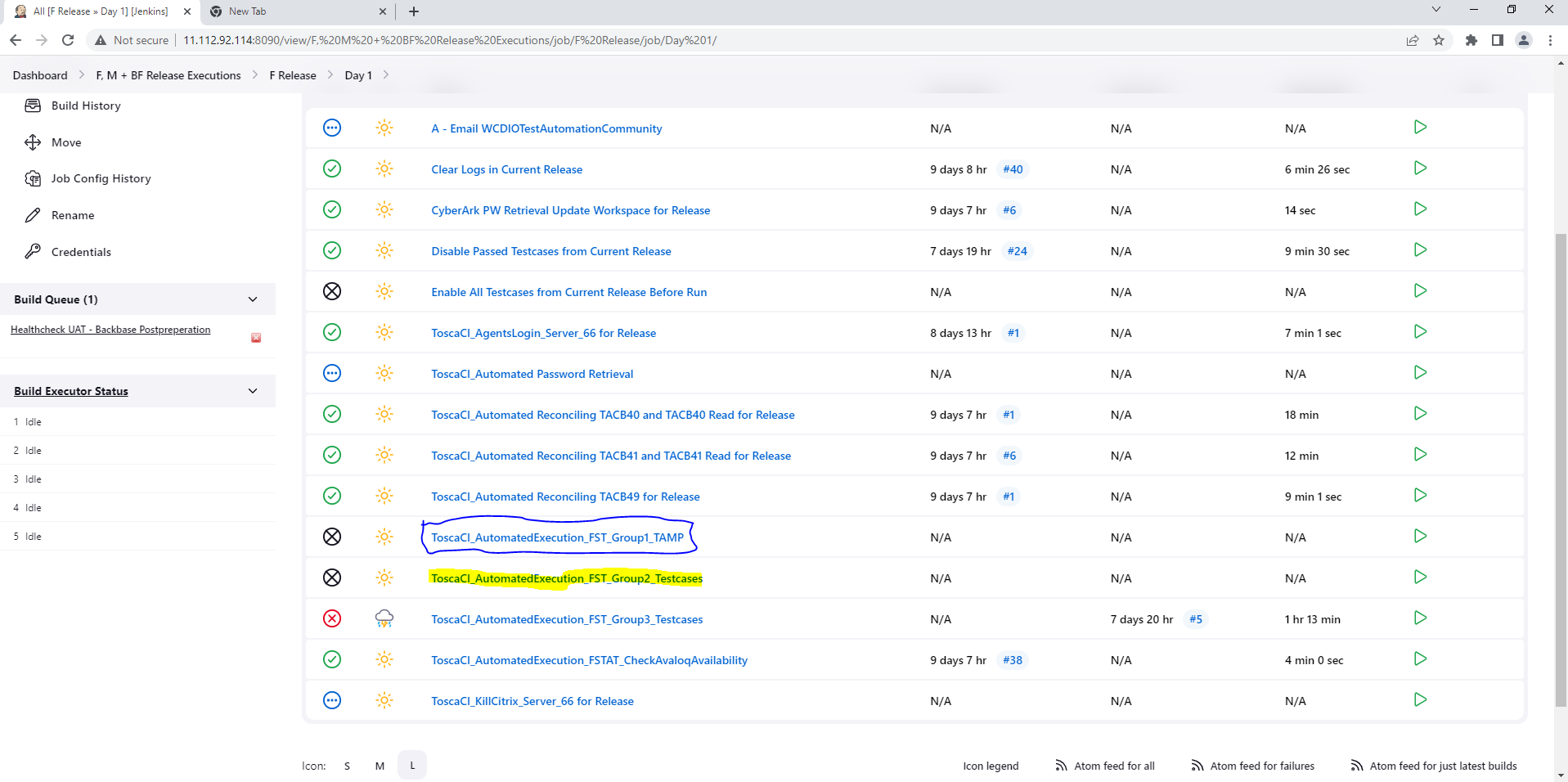
Job Flows for various executions (HC, F, etc) can be found in this confluence page:

<https://confluence.base.srvco.net/display/ETA/Health+Check+Jobs+Workflow>

You can even trigger the jobs from where you want and the rest of all the flows will be picked and executed.

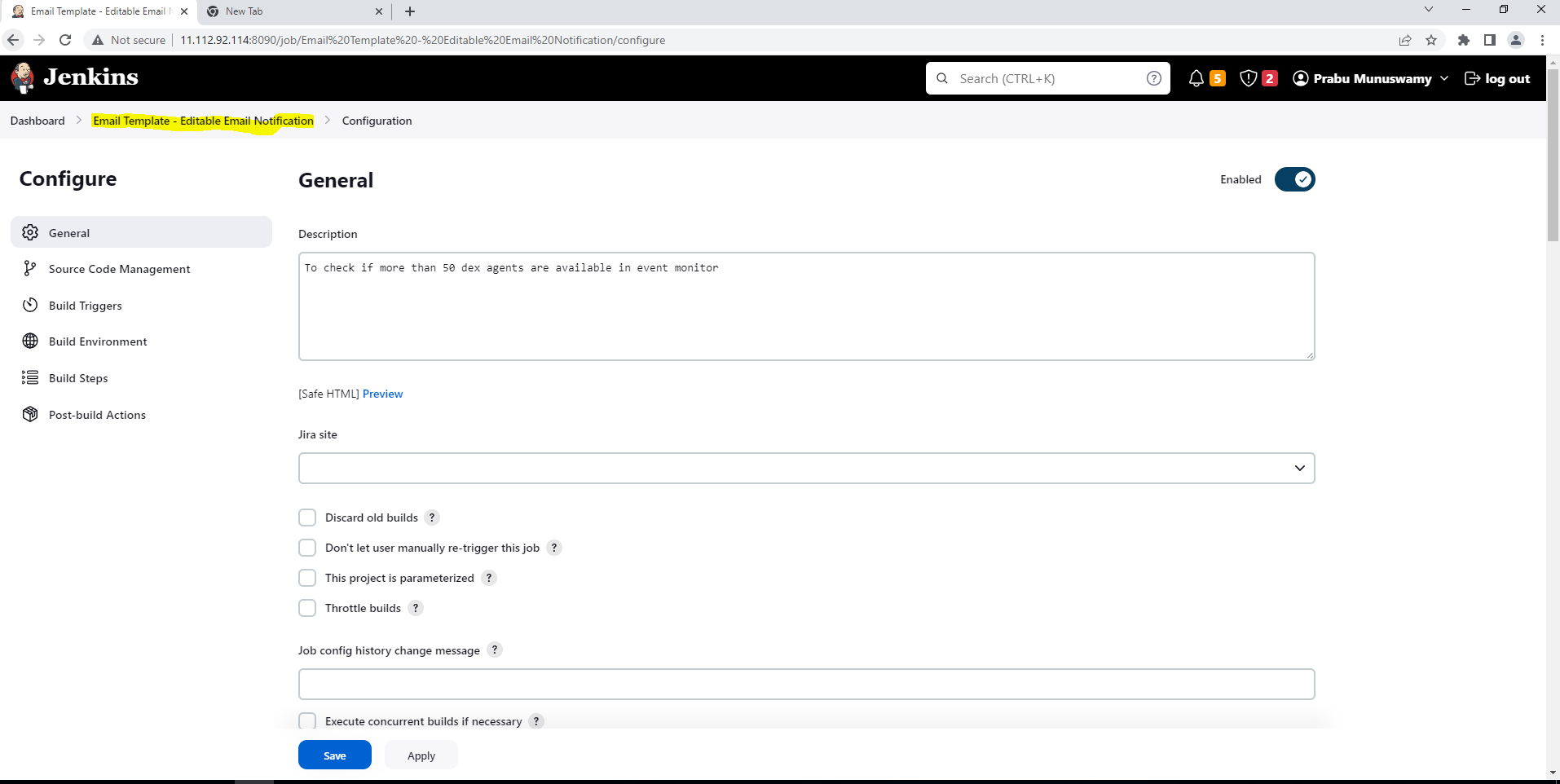
E.g.

If Group 1 jobs gets aborted, you can trigger the Group 2 jobs, and the rest of all the jobs will get executed.

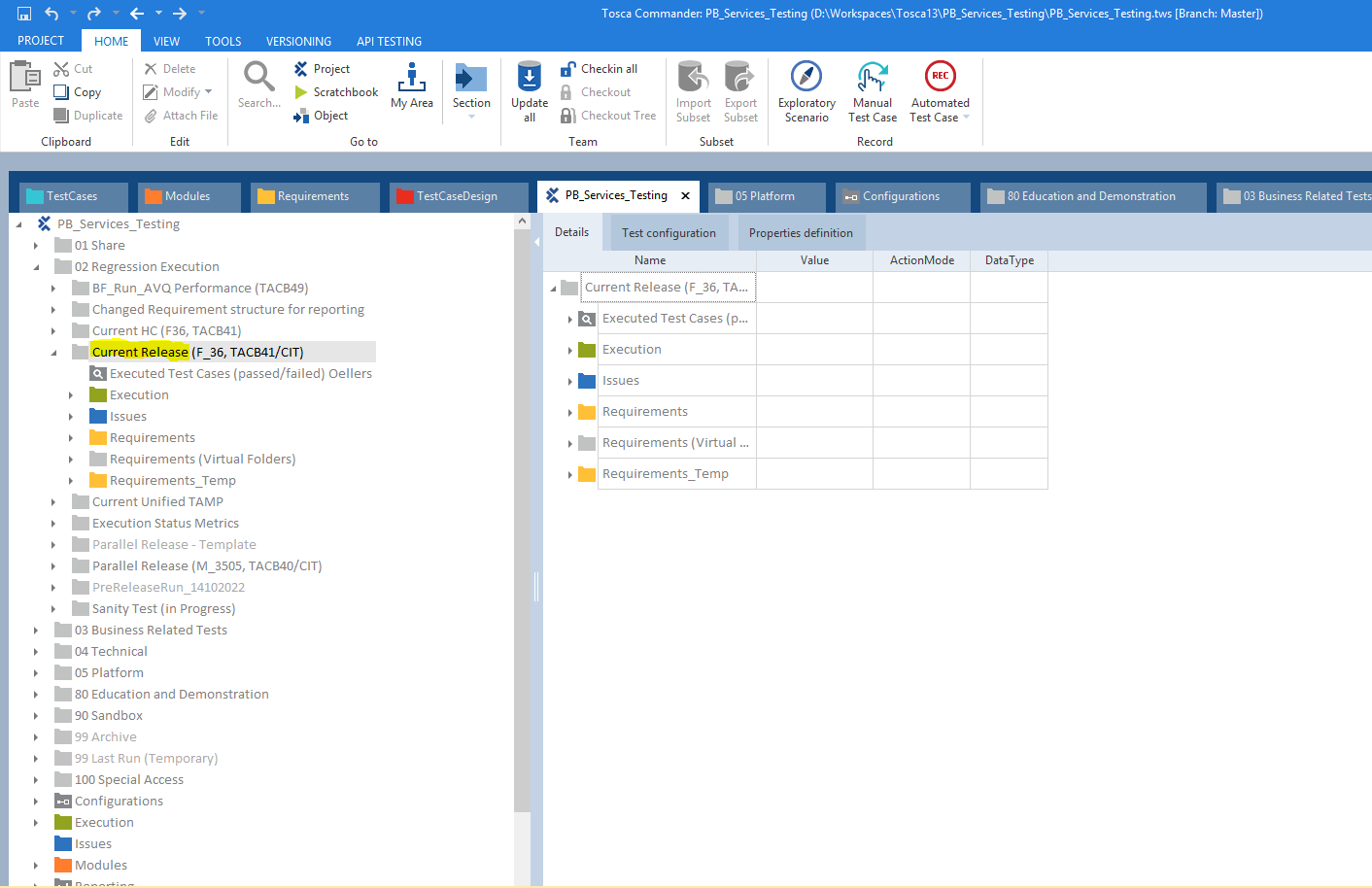


**Sample Email Template:**

This can used as a sample and model for all other jobs to configure email notifications.



**Changes to be done if the folder name changes in Tosca:**



**Important locations in Jenkins Server:**

**XML to HTML Project:** \\11.112.92.114\e$\Jenkins\xml2html-main\xml2html-main\

**TCS and Bat files for 3 jobs** - Enabling TCs, Disabling TCs, Clear logs

Current Release \\11.112.92.114\e$\ExecutionAutomation

M Release:\\11.112.92.114\e$\ExecutionAutomation\M

BF Release: \\11.112.92.114\e$\ExecutionAutomation\BF

Plugins/Libraries: \\11.112.92.114\e$\Jenkins\Libraries

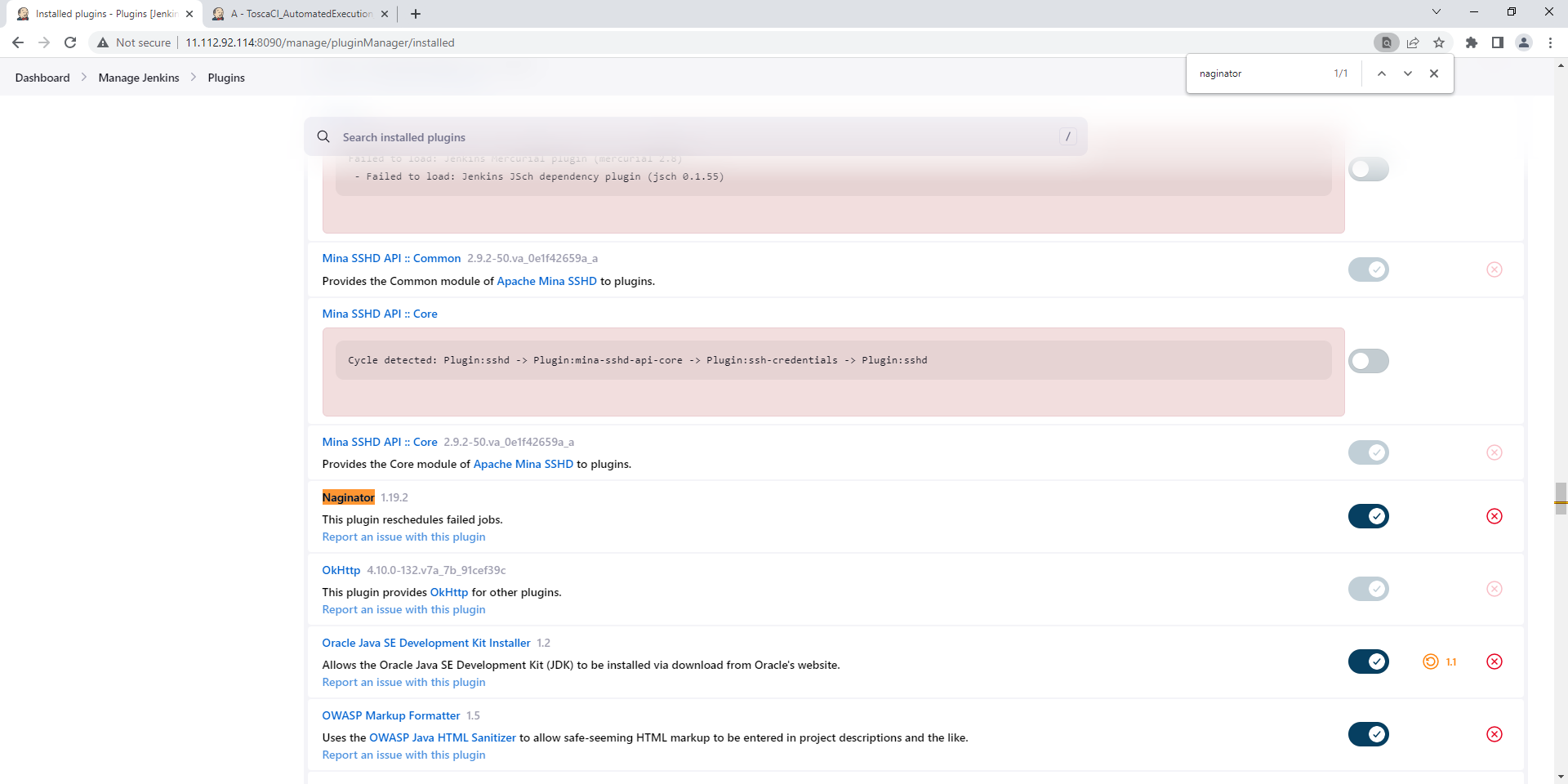
Jenkins Home: \\11.112.92.114\c$\Program Files (x86)\Jenkins

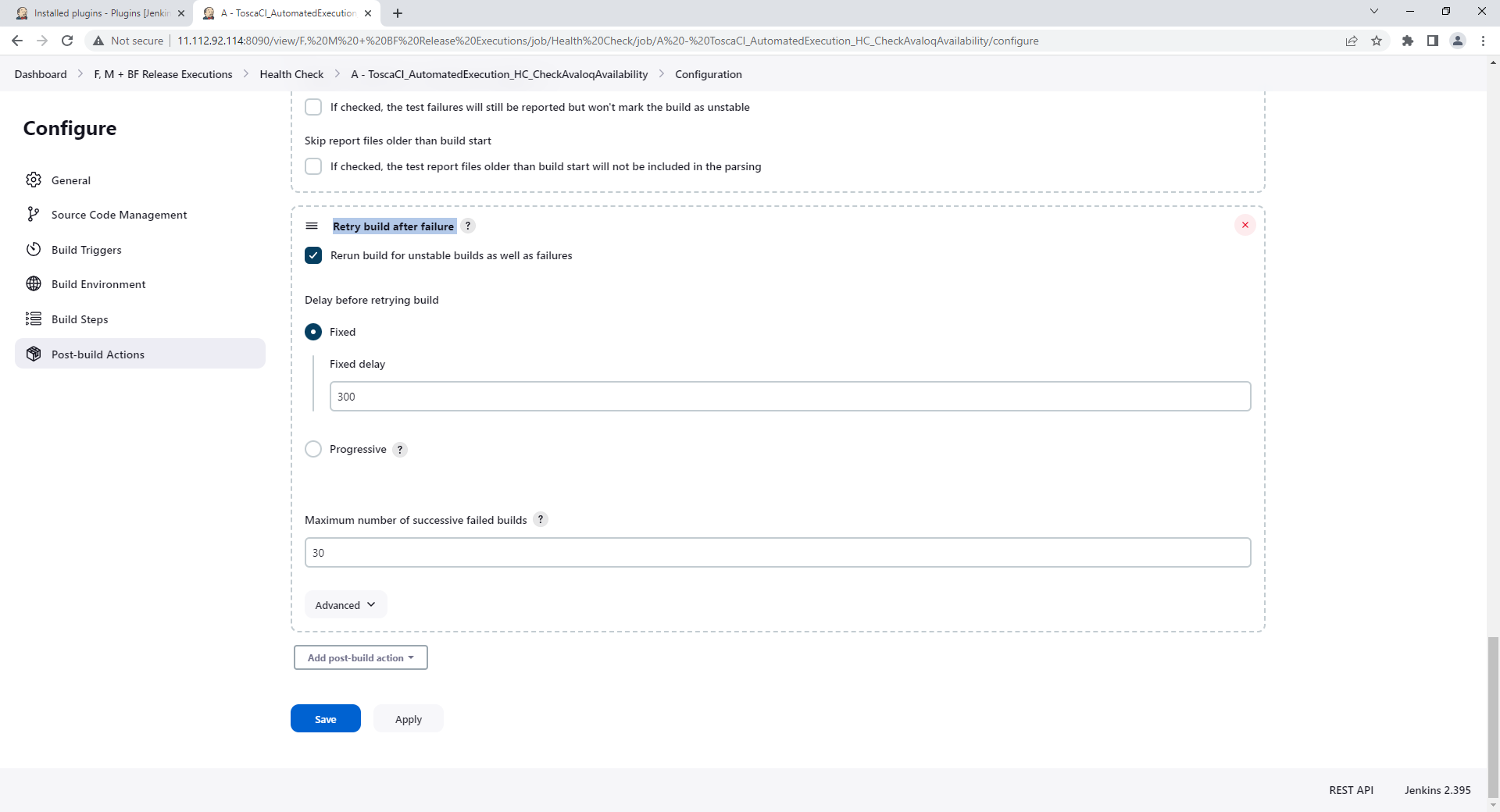
List of Jenkins Environment Variables:

<http://11.112.92.114:8090/plugin/powershell/env-vars.html>

Plugins:

[Naginator](https://plugins.jenkins.io/naginator) – this plugin is used to retry a failed job





**To Kill and Restart Tosca Distribution Agent:**

Right click on the right hand down corner and stop the Tosca Dex Agent.

Restart the agent by running the desktop shortcut: ToscaDistributionAgent.exe – Shortcut

**Scripts done in Powershell (shell scripting):**

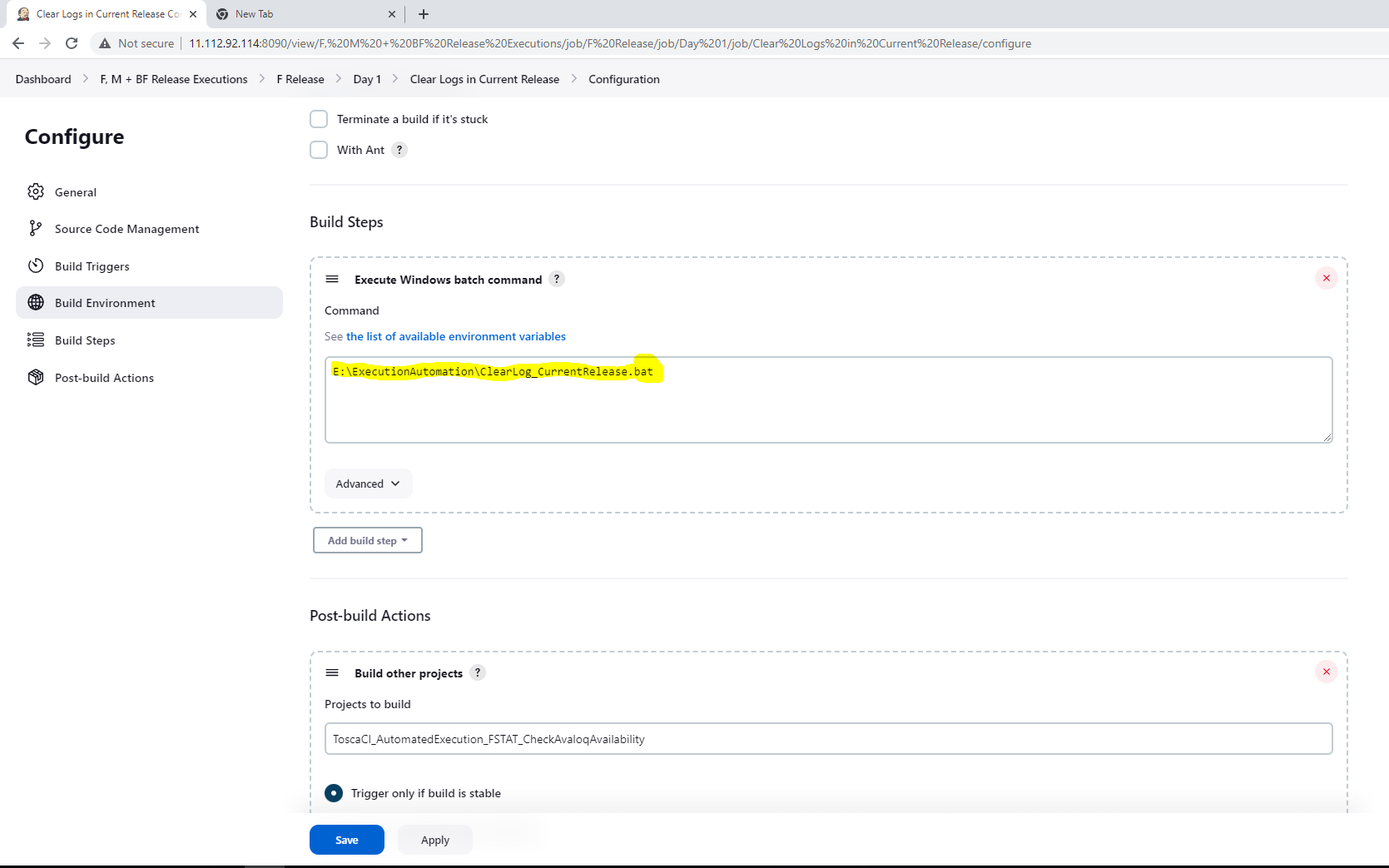
Disabling the passed test cases

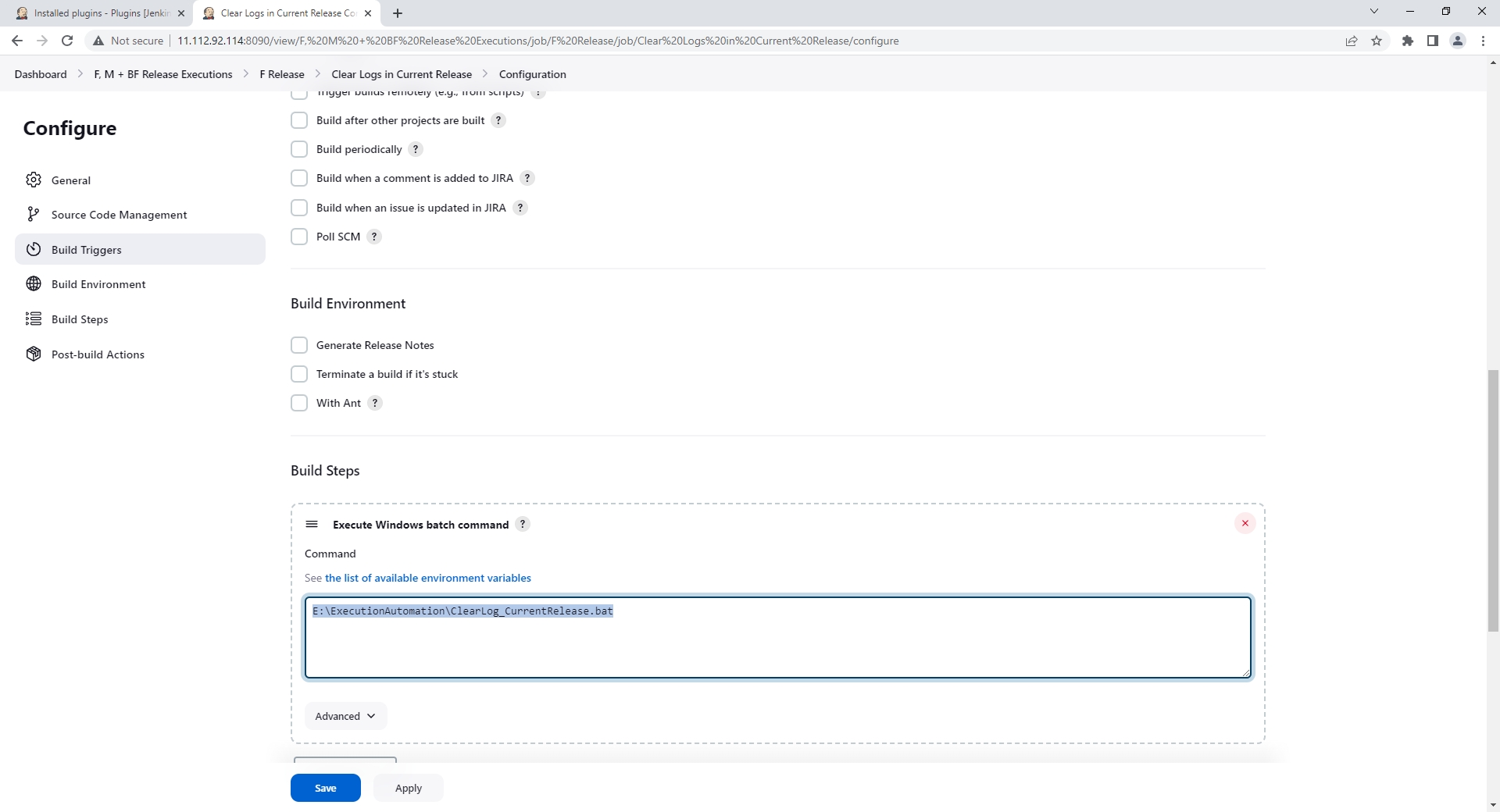
Enabling all the existing cases

Clearing logs

You need to raise the access to view the .bat files of the above shell scripts.

Bat file location in Jenkins server:

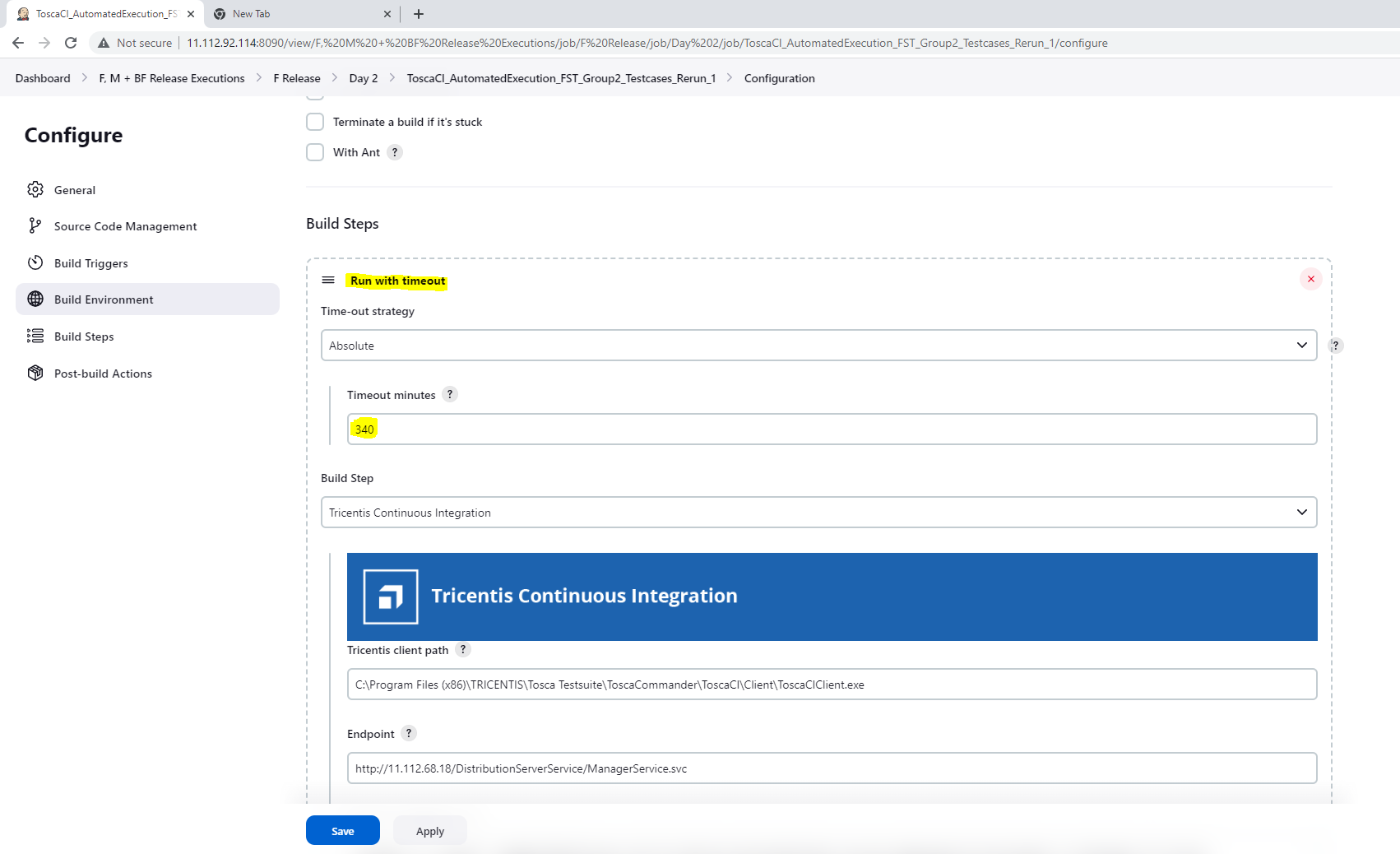




**Run with timeout**

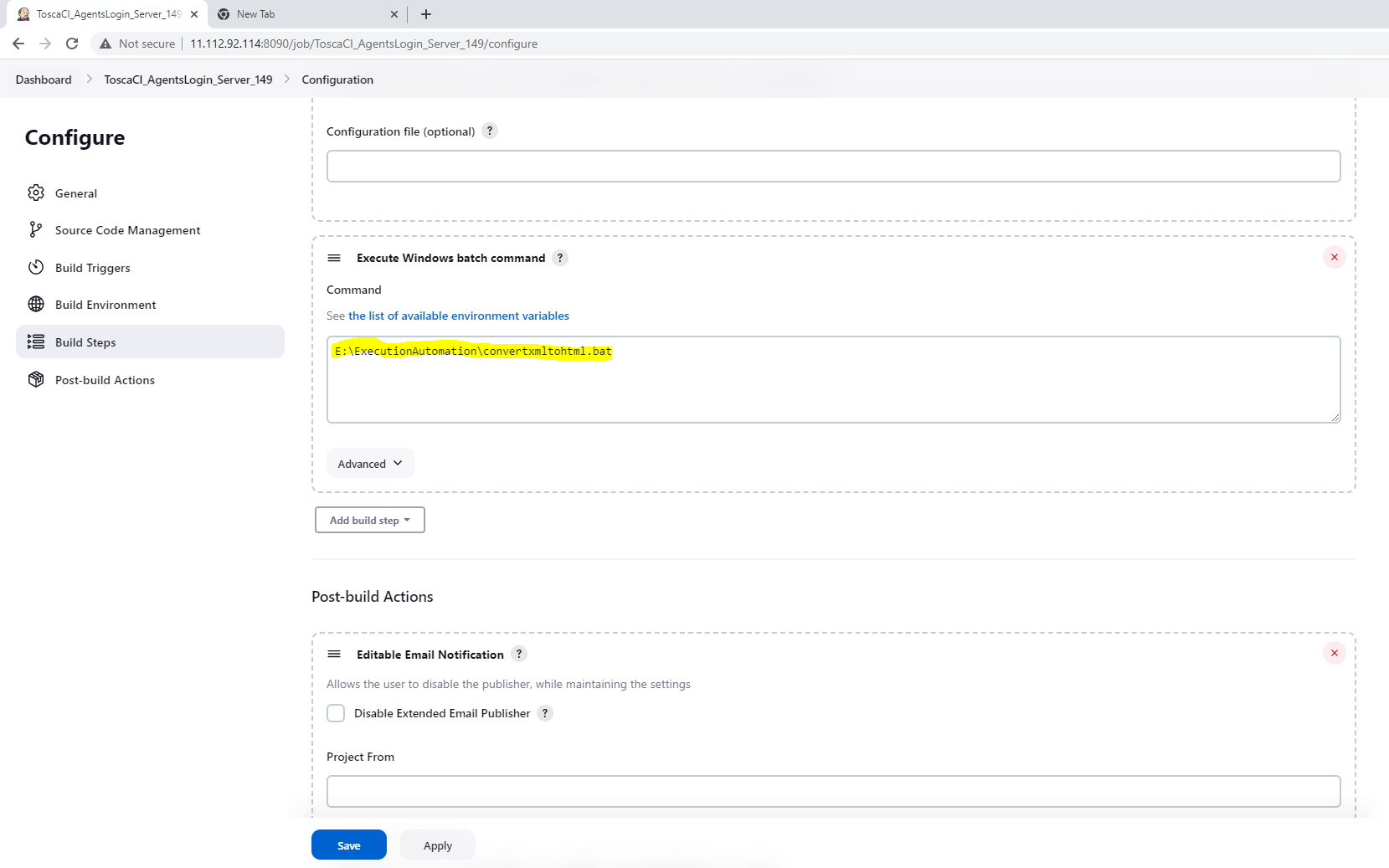
Some jobs are configured as: ‘Run with timeout’ which means that after the mentioned duration the job will get aborted, if it is still running and it will **NOT** proceed to the ‘Post-build actions’.

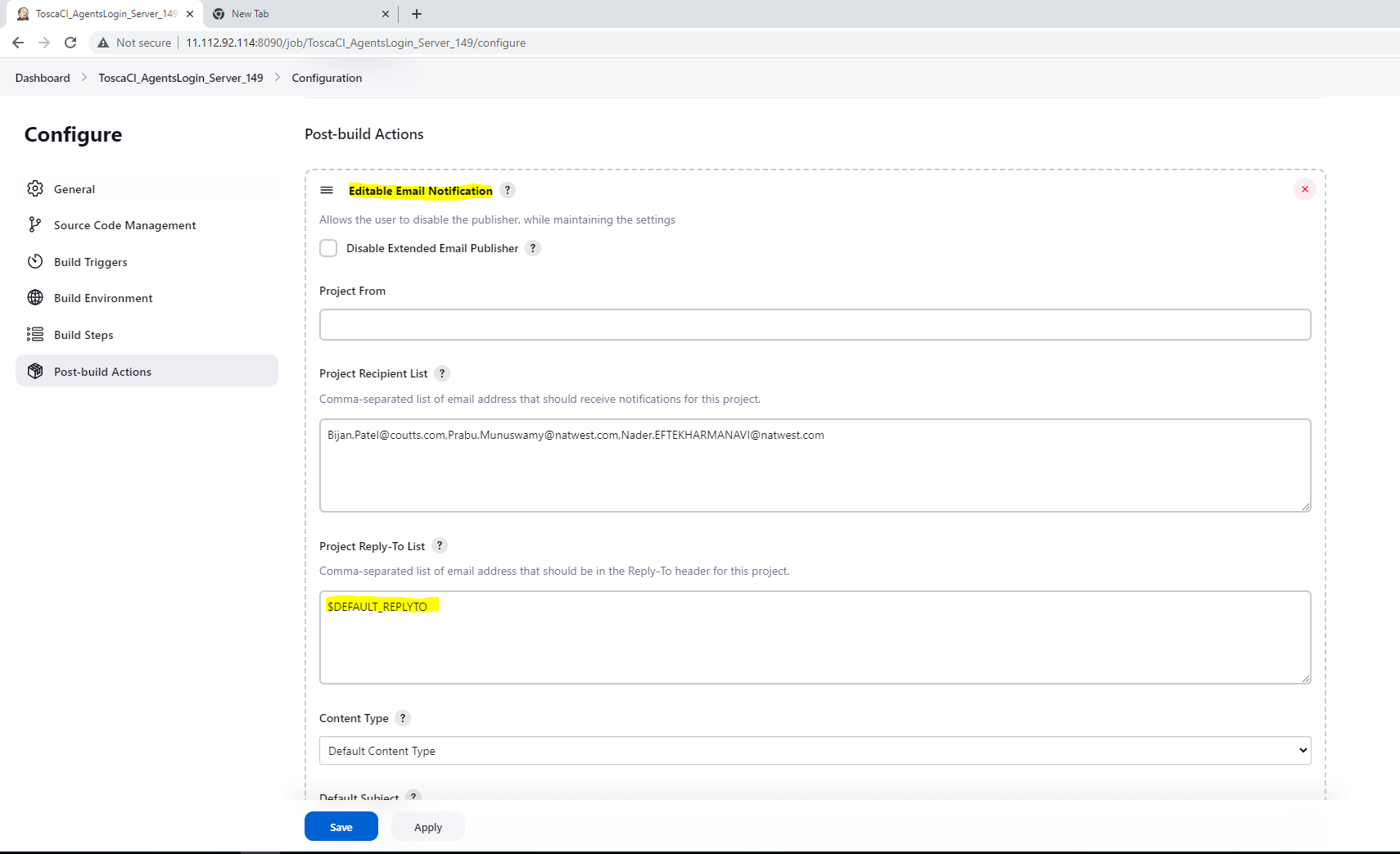
You have to manually trigger the next job.

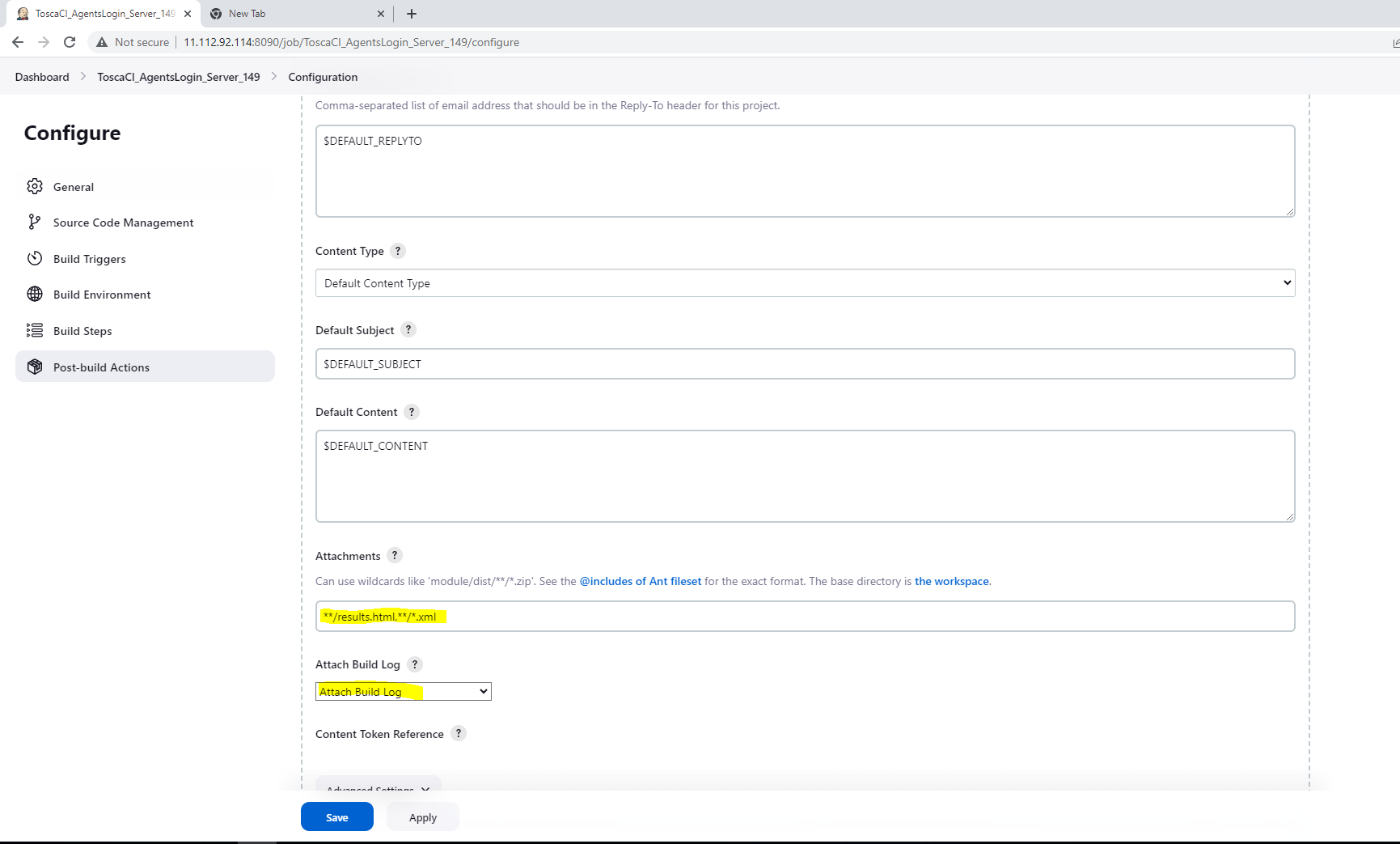


Reports and Results:

Reports and Results are generated as xml and html and it is attached in the email to the recipients. It also contains ‘Build Log’







Folder names in Tosca such as: Current Release (F\_36, TACB41/CIT) are all handled dynamically in Jenkins i.e., even if the values within brackets changes, it will be able to identify the folder of Current Release under the main folder: 02 Regression Execuiton.

