# AuQA -Test Execution on Ubuntu Machine

1. Login to the ubuntu machine 10.252.9.35 as fc user
2. cd automation/AuQA
3. Check the Branch on ubuntu machine using

git branch

1. If the branch is not master, checkout master using

git checkout master

In case there are changes to the current branch which is not letting you checkout, stash them and checkout

git stash

git checkout

Confirm by check the branch using

git branch

1. Fetch the latest master from github

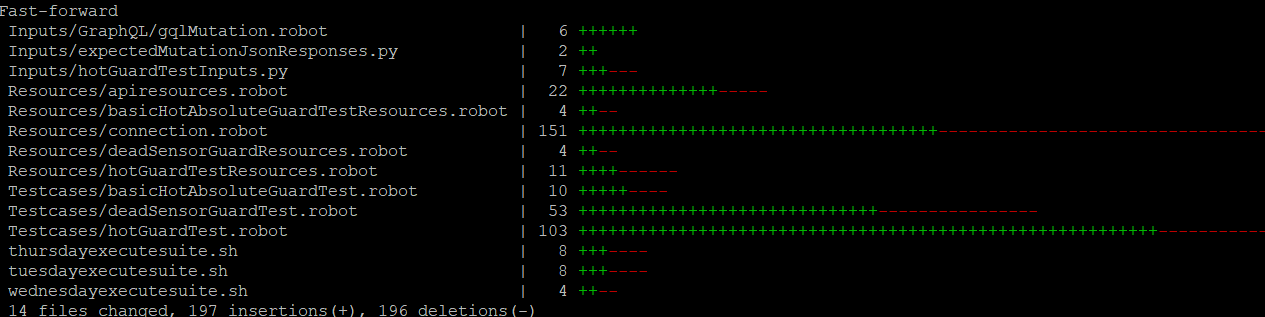
git pull

if the git pull is aborted due to changes in the master, stash the changes and pull using

git stash

git pull

Confirm the changes are pulled as shown below



If there are no changes to the master confirm it by pulling again using

git pull

this will display “Already up to date”



1. **Steps to Execute the individual testcase:**

* Clean the Reports:
* Execute the test
* Move the results to the folder testResults folder if the results are needed to be stored for more than 6 Months

Or move the test results manually to the tesRun folder within the TestResults folder

* Check the result and executionlog.txt.

Ex: To execute Guard1(BasicHotAbsoluteGuard) on 118 and group - General-test

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| --- | --- | --- | --- |
| SR No | Action | Command | Note |
| 1 | Clean Report | sudo pabot --pabotlib -d Reports/cleanReports --output cleanReports.xml --variable environment:config118 /home/fc/automation/AuQA/Testcases/cleanReports.robot | Execute the commands from location  automation/AuQA |
| 2 | Execute Test | sudo pabot --pabotlib --processes 2 --name "Guard1\_General-test\_$(date +%F\_%H:%M:%S)" --reporttitle "BasicHotAbsoluteGuard" --outputdir Reports --output basichotGuard.xml --variable **environment**:config118 -v **groupname**:General-test /home/fc/automation/AuQA/Testcases/basicHotAbsoluteGuardTest.robot /home/fc/automation/AuQA/Testcases/staleStatePrevention.robot >> Reports/executionLog.txt 2>&1 || echo $(date +%F\_%H:%M:%S)- BasicHotAbsoluteGuard/staleStatePrevention execution failed >> Reports/executionLog.txt 2>&1 | Note: Update the **groupname** to execute on the different group like Imputes-test or RSP-test and update **environment** like config37, config91, config91to execute on different environment |
| 3 | Move the results to the folder testResults folder | sudo pabot --pabotlib -d Reports/cleanReports --output moveReports.xml --variable environment:config118 /home/fc/automation/AuQA/Testcases/moveReports.robot |  |
| 4 | Move the test results manually to the tesRun folder | sudo mv /home/fc/automation/AuQA/Reports/ /home/fc/automation/testReports/testRun/<folder name with date and time ex: 2021-09-17-08-44-53> |  |
| 5 | Check the result and executionlog.txt | Based on the machine the execution is initiated from  Access http://10.252.9.35/testReports/ or http://10.252.9.145/testReports/  Look for the folder with dateandtime in testResults or testReports/testRun/ based on where the Reports are moved, and check report.html  Terminal logs can be checked at executionLog.txt |  |

1. **Steps to Execute more than one testcase individually and combine the report**

* Clean the Reports:
* Execute the tests
* Combine the results
* Move the results to the folder testResults folder if the results are needed to be stored for more than 6 Months

Or move the test results manually to the tesRun folder within the TestResults folder

* Check the result and executionlog.txt

Ex: To execute Guard1(BasicHotAbsoluteGuard) to on 118 and group - General-test and

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| --- | --- | --- | --- |
| SR No | Action | Command | Note |
| 1 | Clean the Reports | sudo pabot --pabotlib -d Reports/cleanReports --output cleanReports.xml --variable environment:config118 /home/fc/automation/AuQA/Testcases/cleanReports.robot >> Reports/executionLog.txt 2>&1 || echo $(date +%F\_%H:%M:%S)- cleanReports failed >> Reports/executionLog.txt 2>&1 | Execute the commands from location  automation/AuQA |
| 2 | Execute the tests | Guard1:  sudo pabot --pabotlib --processes 2 --name "Guard1\_RSP-test\_37\_$(date +%F\_%H:%M:%S)" --reporttitle "BasicHotAbsoluteGuard" --outputdir Reports --output basichotGuard.xml --variable environment:config37 -v groupname:RSP-test -T /home/fc/automation/AuQA/Testcases/basicHotAbsoluteGuardTest.robot /home/fc/automation/AuQA/Testcases/staleStatePrevention.robot >> Reports/executionLog.txt 2>&1 || echo $(date +%F\_%H:%M:%S)- BasicHotAbsoluteGuard/staleStatePrevention execution failed >> Reports/executionLog.txt 2>&1  Guard2:  sudo pabot --pabotlib --processes 2 --name "Guard2\_Imputes-test\_91\_$(date +%F\_%H:%M:%S)" --reporttitle "DeadSensorGuard" --outputdir Reports --output deadSensorGuard.xml --variable environment:config91 -v groupname:Imputes-test -T /home/fc/automation/AuQA/Testcases/deadSensorGuardTest.robot /home/fc/automation/AuQA/Testcases/staleStatePrevention.robot >> Reports/executionLog.txt 2>&1 || echo $(date +%F\_%H:%M:%S)- DeadSensorGuard/staleStatePrevention execution failed >> Reports/executionLog.txt 2>&1 |  |
| 3 | Combine the results | sudo rebot --name "GuardTest" --reporttitle "Test performed across different environment and different group" --outputdir Reports --output output.xml /home/fc/automation/AuQA/Reports/basichotGuard.xml /home/fc/automation/AuQA/Reports/deadSensorGuard.xml 2>&1 | sudo tee -a Reports/executionLog.txt | Note: Specify the output xml file given while executing the test above, in the rebot command along with the path like /home/fc/automation/AuQA/Reports/basichotGuard.xml and /home/fc/automation/AuQA/Reports/deadSensorGuard.xml  Rebot will combine the specified xml file and generate report.html under the Reports folder |
| 4 | Move the results to the folder testResults folder | sudo pabot --pabotlib -d Reports/cleanReports --output moveReports.xml --variable environment:config37 /home/fc/automation/AuQA/Testcases/moveReports.robot >> Reports/executionLog.txt 2>&1 || echo $(date +%F\_%H:%M:%S)- moveReports failed >> Reports/executionLog.txt 2>&1 |  |
| 5 | Check the result and executionlog.txt at | Based on the machine the execution is initiated from  Access[**http://10.252.9.35/testReports/**](http://10.252.9.35/testReports/) **or** [**http://10.252.9.145/testReports/**](http://10.252.9.145/testReports/)  Look for the folder with dateandtime of execution and check report.html  Terminal logs can be checked at executionLog.txt |  |

1. **Manual execution of the suite:**

* Follow the steps till step 5
* Change the file permission to make it executable
* Execute the suite
* Check the results

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| --- | --- | --- | --- |
| SR. No | Actions | Commands | Notes |
| 1 | Change the file permission to make it executable | * sudo chmod 755 thursdayexecutesuite.sh * sudo chmod 755 tuesdayexecutesuite.sh * sudo chmod 755 wednesdayexecutesuite.sh |  |
| 2 | Execute the suite | Based on the suite to be executed, execute the below commands  sudo sh thursdayexecutesuite.sh  sudo sh tuesdayexecutesuite.sh  sudo sh wednesdayexecutesuite.sh |  |
| 3 | Check the results | Based on the machine the execution is initiated from  Access[**http://10.252.9.35/testReports/**](http://10.252.9.35/testReports/) **or** [**http://10.252.9.145/testReports/**](http://10.252.9.145/testReports/)  Look for the folder with dateandtime of execution and check report.html  Terminal logs can be checked at executionLog.txt |  |

1. **Scheduled execution of the suite:**
   * Currently wednesdayexecutesuite is scheduled to execute every Wednesday 5: 00 am PDT on both machine 35 and 145
   * Make sure the latest master is pulled and file permission are changed as mentioned in Step8
2. **Suite Configuration:**

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| --- | --- | --- |
| **SR No.** | **Suite** |  |
| **1** | tuesdayexecutesuite | Env: 37  Guard1 on **RSP-test**  Guard2 on Imputes-test  Guard3 on General-test  Guard4 on RSP-Test |
| **2** | thursdayexecutesuite | Env:118  Guard1 on General-test  Guard2 on Imputes-test  Guard3 on General test  Guard4 on RSP-Test |
| **3** | wednesdayexecutesuite | Guard1 with RSP-test on 37  Guard2 with Imputes-test on 91  Guard3 with General test on 118  Guard4 with RSP-Test on 64 |

1. **Checking the logs during the execution:**

* Look at the execution log using

tail -f /home/fc/automation/AuQA/Reports/executionLog.txt

* Get the index of the process that are executed in parallel with pabot as shown below

Storing. pabotsuitenames file

2021-09-21 01:42:22.829949 [PID:59222] [0] [ID:0] EXECUTING Guard1\_General-test\_2021-09-21\_01:42:22.basicHotAbsoluteGuardTest

2021-09-21 01:42:22.831556 [PID:59223] [1] [ID:1] EXECUTING Guard1\_General-test\_2021-09-21\_01:42:22.staleStatePrevention

Here index 0 is for basicHotAbsoluteGuardTest process and 1 is the index for staleStatePrevention process

* Look for the logs of testcase basicHotAbsoluteGuardTest or staleStatePrevention using the index as below

tail -f /home/fc/automation/AuQA/Reports/pabot\_results/**1**/robot\_stdout.out

tail -f /home/fc/automation/AuQA/Reports/pabot\_results/**0**/robot\_stdout.out

1. **NOTE**:

Do not use the test machine 35 or 145 and VEMS (37,91,118) on Wednesday from (5:30 pm to 7:30 pm IST/5:00 am to 7:00 am PDT) as the scheduled run will be triggered

Make sure the master branch is active and the suite file has the executable permission

1. Annexure:

* pabot -> Used for parallel execution
* --pabotlib -> Used for sharing the resource between the process
* --processes -> Used to specify the process to be executed in parallel
* --name -> Used to specify the name of the testcases in the reports.html summary
* --reporttitle -> Used to specify the Report title in the reports.html summary
* --outputdir -> Used the set the output directory, which is Reports in AuQA
* --output -> Used to Specify the name of the output xml file
* --variable -> Used to pass the command line variable
* -v -> Used to pass the command line variable
* -T -> Used to get the timestamped output files