Automated Testing for Continuous Integration

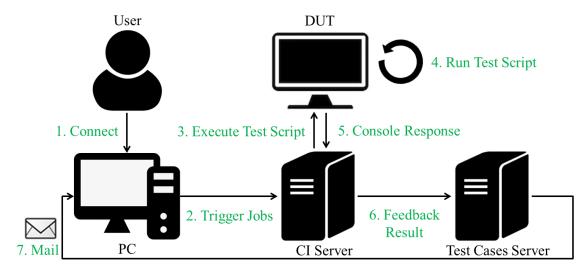
Version 1.0

Version History

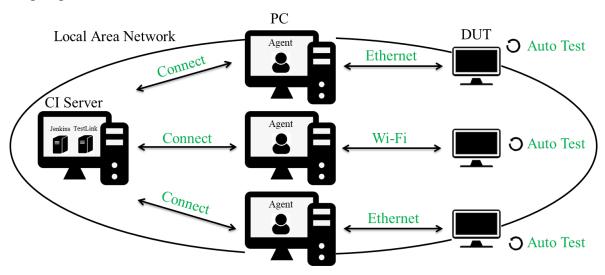
Version	Date	Handled by	Comments	
V1.0	05-June-2019	ZL Chen	Add the software structure.	
V1.1	09-June-2019	Yuming Lin	Add the project config to Github.	
V1.1.1	11-June-2019	Yuming Lin	Add the test jobs to Jenkins.	
V1.2	11-June-2019	ZL Chen	Add the jobs script launch by Jenkins.	
V1.2.1	12-June-2019	ZL Chen	Add the test report display.	

System Structure:

Structure:



Ongoing:



Precondition Setting:

Please make sure the DUT is connected to the internet.

Please follow the implement as below.

Step 1:

Add the project config to Github.

- ➤ Please git clone https://github.com/advantech-zl-yuming/ini.git
- ➤ Please create the three test branch for xxxxxx branch
 - ✓ git checkout -b usc130 a8 origin/usc130 a8
 - ✓ git checkout xxxxxx
 - ✓ git checkout -b usc130 a8 stress origin/usc130 a8 stress
 - ✓ git checkout xxxxxx stress
 - ✓ git checkout -b usc130 a8 half auto origin/usc130 a8 half auto
 - ✓ git checkout xxxxxx half auto

```
usc130_a8_half_auto
usc130_a8_stress
usc130_a8
```

- Please check project components and set components' parameters on 3 test branches (xxxxxx, xxxxxx_stress, xxxxxx_half_auto)
 - ✓ Please enable/disable the test module on device_check.ini, and set the components' parameters on parameter setting.ini

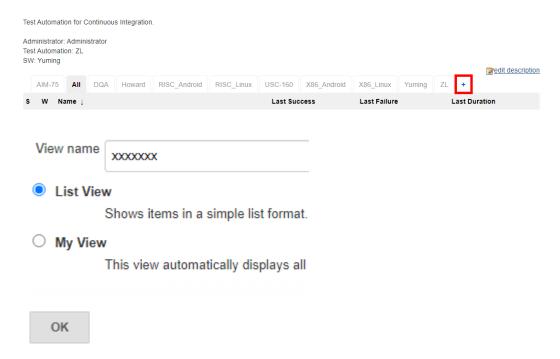
```
# Device Check
                                    # Parameter Setting
[suite_disable]
                                    [project name]
wifi = disable
                                    name = usc130 a8
eth0 = disable
                                    [audio speaker]
light sensor = disable
g_sensor = disable
gps = disable
                                    [backlight]
[suite enable]
                                    [bluetooth]
audio_speaker = enable
backlight = enable
bluetooth = enable
                                    id = 2394
camera = enable
comtest = enable
                                    [comtest]
                                    port1 = /dev/ttyS4
emmc = enable
gpio_key = enable
rfid = enable
rtc = enable
systeminformation = enable
                                    [eth0]
usbdisk sdcard = enable
androiddm_version_check = enable
                                   [g sensor]
                                    input_id = /sys/devices/virtual/input/input3
boot_animation_check = enable
video_fps = enable
cpu info = enable
mem info = enable
                                    input id = /sys/devices/virtual/input/input4
emmc info = enable
                                    name = ts12563
sd_info = enable
usb_info = enable
                                    [gpio key]
usb otg info = enable
                                    input_id = /sys/devices/platform/gpio-keys/input
```

- Please push the three branch to github for test.
 - ✓ git push origin xxxxxx: xxxxxx
 - ✓ git push origin xxxxxx stress: xxxxxx stress
 - ✓ git push origin xxxxxx half auto: xxxxxx half auto

Step 2:

Add the test jobs to Jenkins.

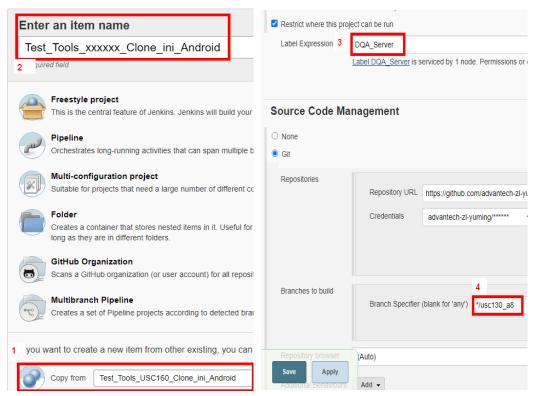
- Login the Jenkins system:
 - ✓ http://172.22.20.208:8080/
 (Username and password is default the same.)
- > Create new project view
 - ✓ Add new xxxxxx project jobs to xxxxxx view



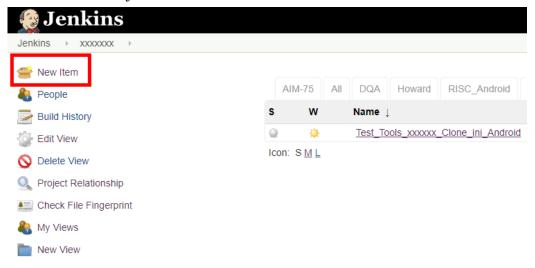
- Add 5 test jobs to new project to run test
 - ✓ Add auto test jobs to xxxxxx view



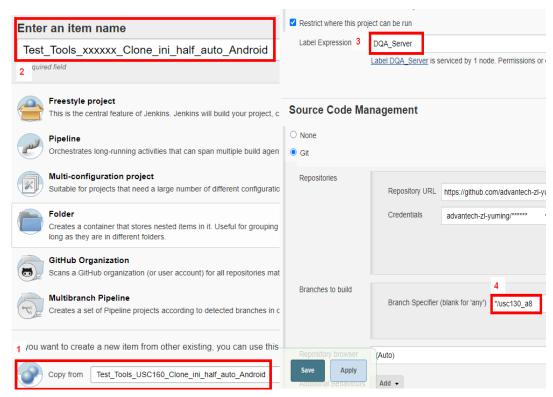
- 1. Add the auto test config job (Copy from Test_Tools_USC160_Clone_ini_Android)
- 2. Enter an item name. ex: Test Tools xxxxxx Clone ini Android
- 3. Set the agent base on the connection.
- 4. Enter the project config branch name (ex: */xxxxxx)



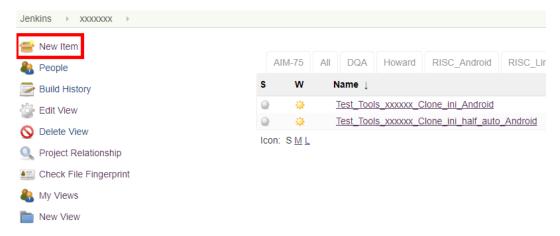
- Add 5 test jobs to new project to run test
 - ✓ Add half-auto test jobs to xxxxxx view



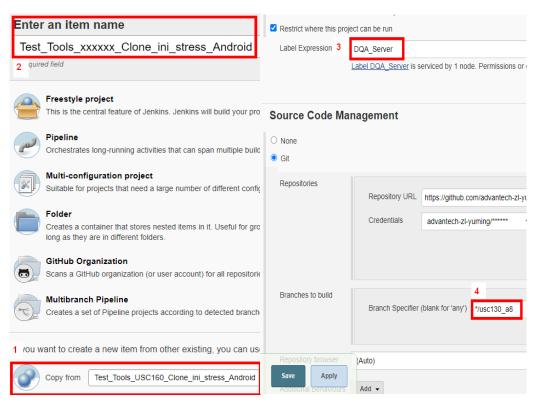
- Add the half_auto test config job (Copy from Test_Tools_USC160_Clone_ini_half_auto_Android)
- 2. Enter an item name. ex: Test Tools xxxxxx Clone ini half auto Android
- 3. Set the agent base on the connection.
- 4. Enter the project config branch name (ex: */xxxxxx)



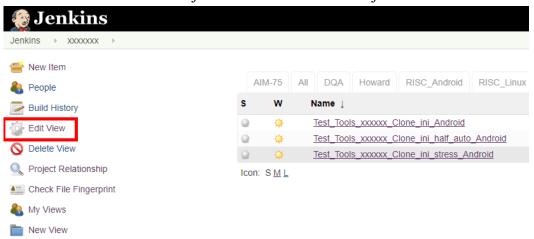
✓ Add the stress test jobs to xxxxxx view



- 1. Add the stress test config job (Copy from Test_Tools_USC160_Clone_ini_stress_Android)
- 2. Enter an item name. ex: Test Tools xxxxxx Clone ini stress Android
- 3. Set the agent base on the connection.
- 4. Enter the project config branch name (ex: */xxxxxx)

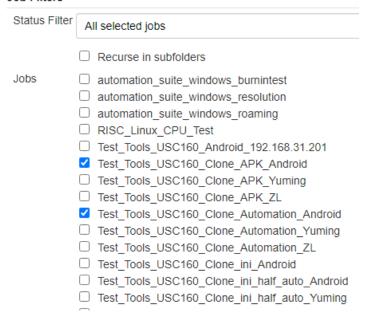


✓ Add the download auto tools job and download test APK job to xxxxxx view



Choose the "Test_Tools_USC160_Clone_Automation_Android" and "Test_Tools_USC160_Clone_APK_Android" jobs to the project view to finish 5 test jobs.

Job Filters





Icon: S M L

Step 3:

Run the jobs script by Jenkins.

The first one:

➤ Please clone the automation folder. (Click the Test_Tools_USC160_Clone_Automation_Android), it will trigger the "Test_Tools_xxxxx_Clone_ini_Android" jobs.

S	W	Name ↓
•	4	Test_Tools_USC160_Clone_APK_Android
0	4	Test_Tools_USC160_Clone_Automation_Android
0	400	Test_Tools_xxxxxx_Clone_ini_Android
0	康	Test_Tools_xxxxxx_Clone_ini_half_auto_Android
0	305	Test_Tools_xxxxxx_Clone_ini_stress_Android

The second:

➤ If you want to use the APK of the test cases, please click the "Test_Tools_USC160_Clone_APK_Android", it will trigger the "Test_Tools_xxxxx_ini_half_auto_Android" jobs.

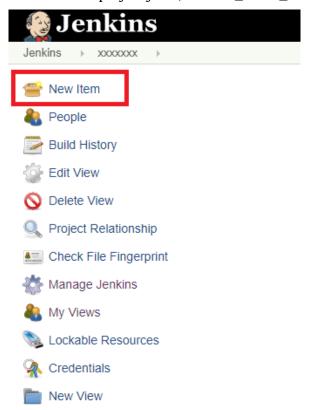


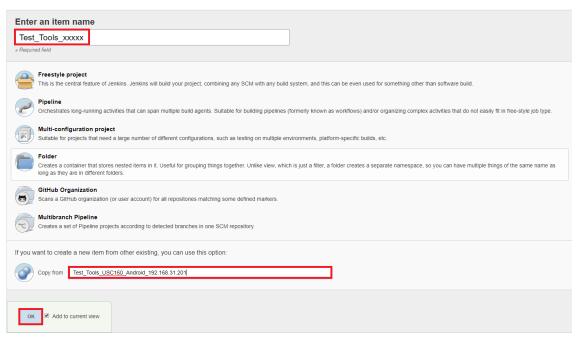
Then, if you want to run the semiautomatic, please click the "Test_Tools_xxxxx_ini_stress_Android" jobs.

S	W	Name ↓
•	Q	Test_Tools_USC160_Clone_APK_Android
0	亞	Test_Tools_USC160_Clone_Automation_Android
0	-	Test_Tools_xxxxxx_Clone_ini_Android
Q.	0	Test_Tools_xxxxxxx_Clone_ini_half_auto_Android
0	0	Test_Tools_xxxxxxx_Clone_ini_stress_Android

The third,

Join the main project job. (Ex: Test_Tools_xxxxx)



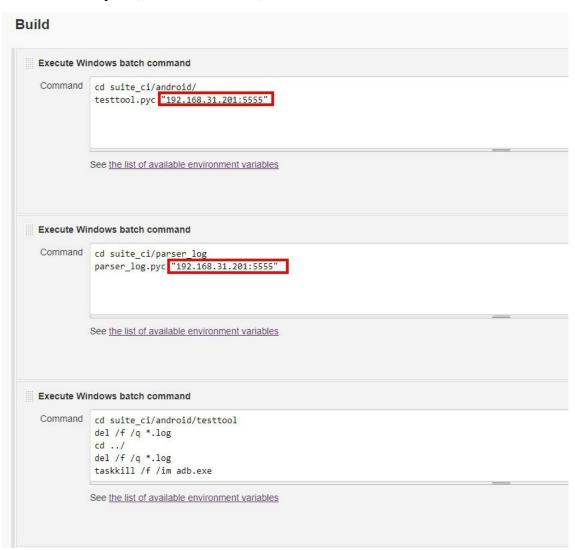


Modify the configuration setting:

✓ Agent



✓ IP address:port (Device IP Address)

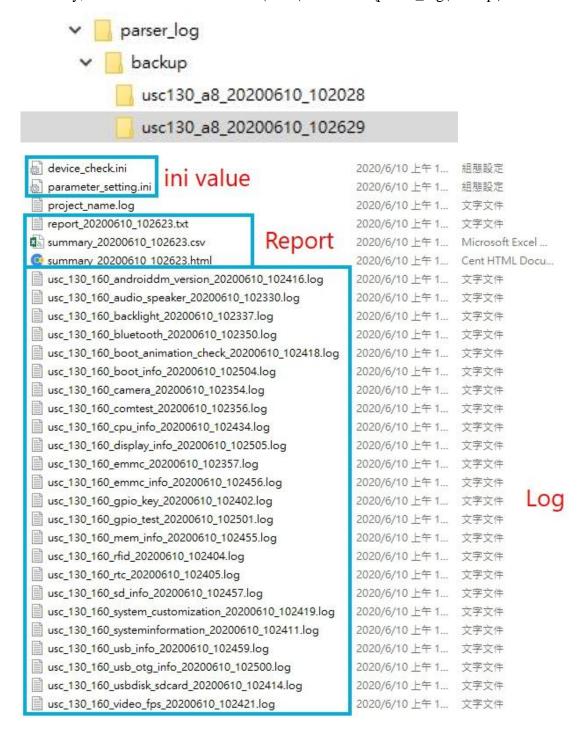


- Finally, starting the auto test script.
 - ✓ Please click the "Test_Tools_xxxxx".

S	W	Name	Last Success	Last Failure	Last Duration	
0	*	Test_Tools_USC160_Clone_APK_Android	6 days 6 hr - <u>#3</u>	N/A	49 sec	2
0	*	Test_Tools_USC160_Clone_Automation_Android	1 day 5 hr - <u>#73</u>	N/A	4.4 sec	(2)
0	*	Test_Tools_xxxxx	N/A	N/A	N/A	(2)
0	*	Test_Tools_xxxxxx_Clone_ini_Android	N/A	N/A	N/A	2
0	*	Test Tools xxxxxx Clone ini half auto Android	N/A	N/A	N/A	2
0	*	Test_Tools_xxxxxxx_Clone_ini_stress_Android	N/A	N/A	N/A	2

Step 4:

➤ Basically, the location is under the C:\code\automation\parser_log\backup\



report_20200610_102623.txt

summary_20200610_102623.html

Test case	Status
usc_130_160_androiddm_version_20200610_102416	Pass
usc_130_160_audio_speaker_20200610_102330	Pass
usc_130_160_backlight_20200610_102337	Pass
usc_130_160_bluetooth_20200610_102350	Pass
usc_130_160_boot_animation_check_20200610_102418	Pass
usc_130_160_boot_info_20200610_102504	Pass
usc_130_160_camera_20200610_102354	Fail
usc_130_160_comtest_20200610_102356	Pass
usc_130_160_cpu_info_20200610_102434	Pass
usc_130_160_display_info_20200610_102505	Pass
usc_130_160_emmc_20200610_102357	Pass
usc_130_160_emmc_info_20200610_102456	Pass
usc_130_160_gpio_key_20200610_102402	Pass
usc_130_160_gpio_test_20200610_102501	Pass
usc_130_160_mem_info_20200610_102455	Pass
usc_130_160_rfid_20200610_102404	Fail
usc_130_160_rtc_20200610_102405	Pass
usc_130_160_sd_info_20200610_102457	Fail
usc_130_160_system_customization_20200610_102419	Pass
usc_130_160_systeminformation_20200610_102411	Fail
usc_130_160_usb_info_20200610_102459	Fail
usc_130_160_usb_otg_info_20200610_102500	Fail
usc_130_160_usbdisk_sdcard_20200610_102414	Pass
usc_130_160_video_fps_20200610_102421	Pass
Total	24
Pass	18
Fail	6
Exception	0