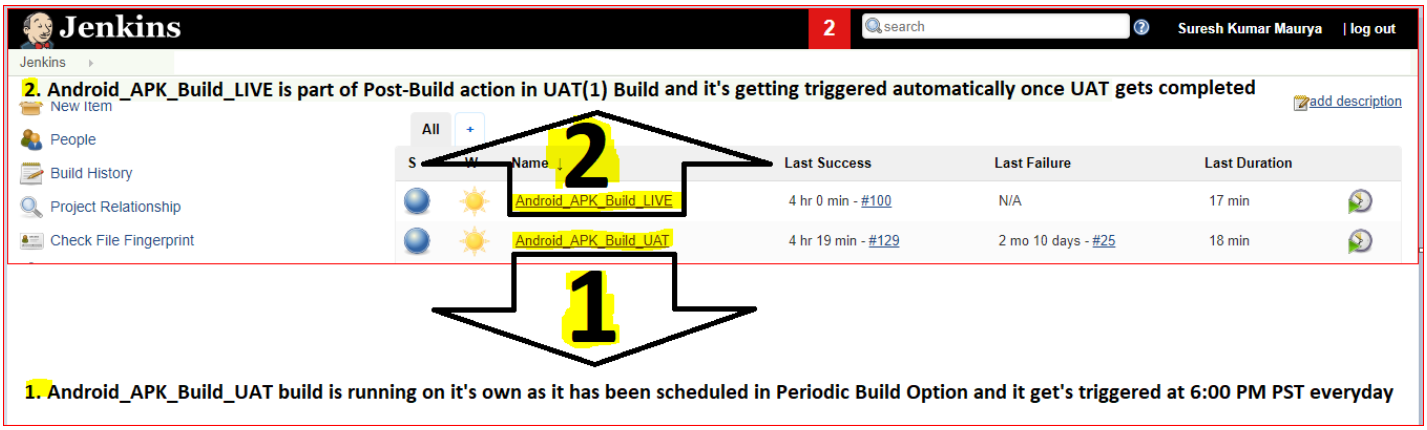
SOP- Android APK Build Automation in Jenkins

Jenkins URL: http://hme-build.westus.cloudapp.azure.com:8080/



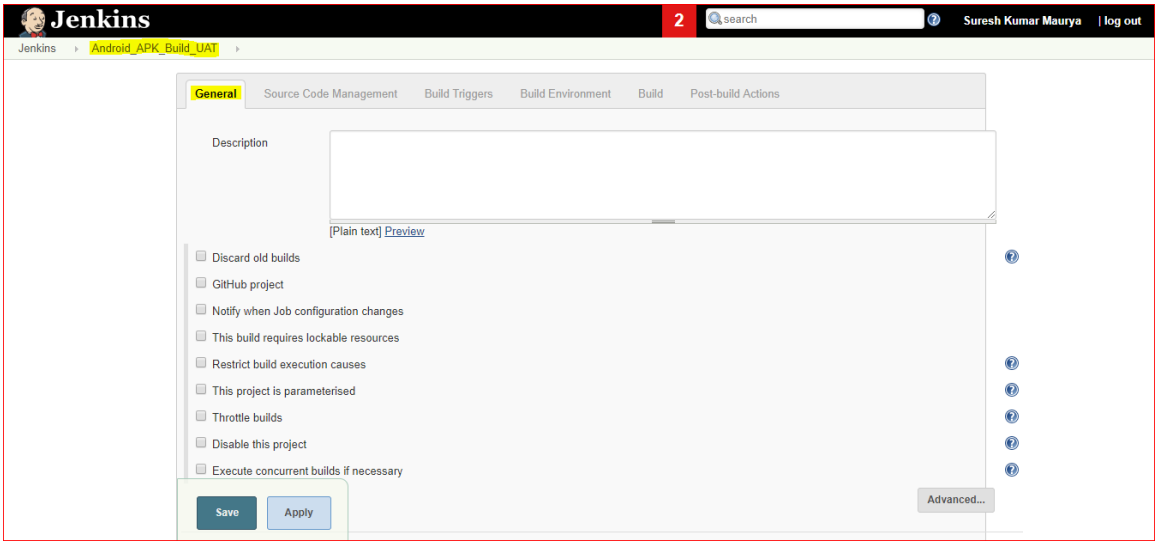
Android APK Build Jobs

1. **Android_APK_Build_UAT** (*This build is scheduled as **Cronjob** and it runs first, *as soon as UAT gets completed LIVE gets triggered automatically* so we don't need to run LIVE manually, means both the job are getting triggered here in Jenkins automatically at 6:00 PM PST)

2. **Android_APK_Build_LIVE** (*This Build is under *post-build action in UAT build Job so we don't need to trigger this build neither manually nor automatically*)

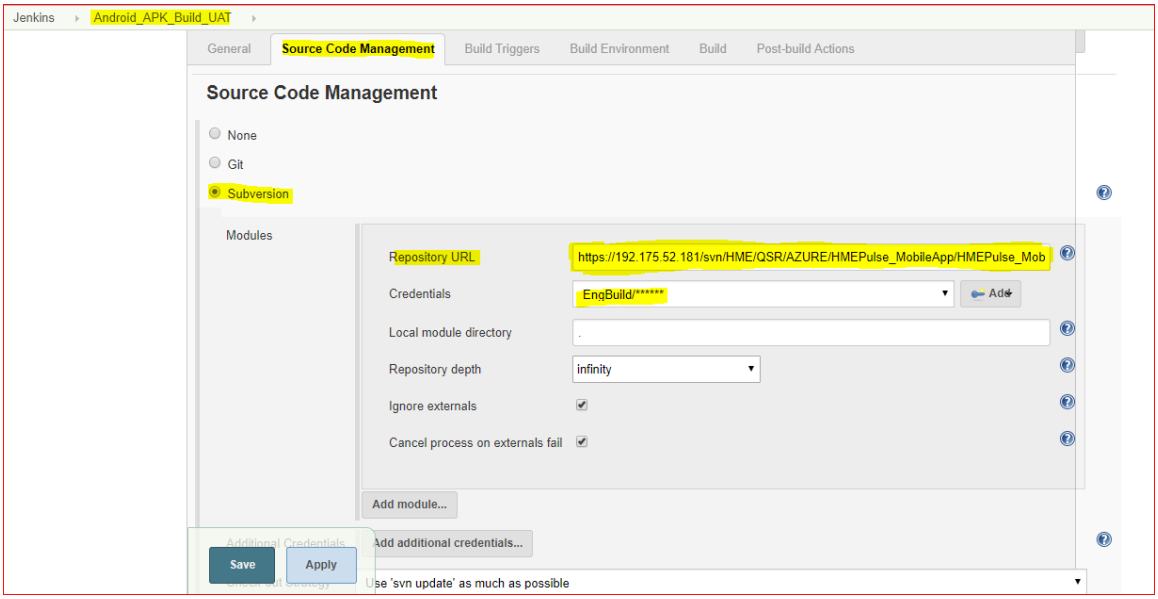
Step 1:

Android Automation Build Job Name: Android_APK_Build_UAT



Step 2:

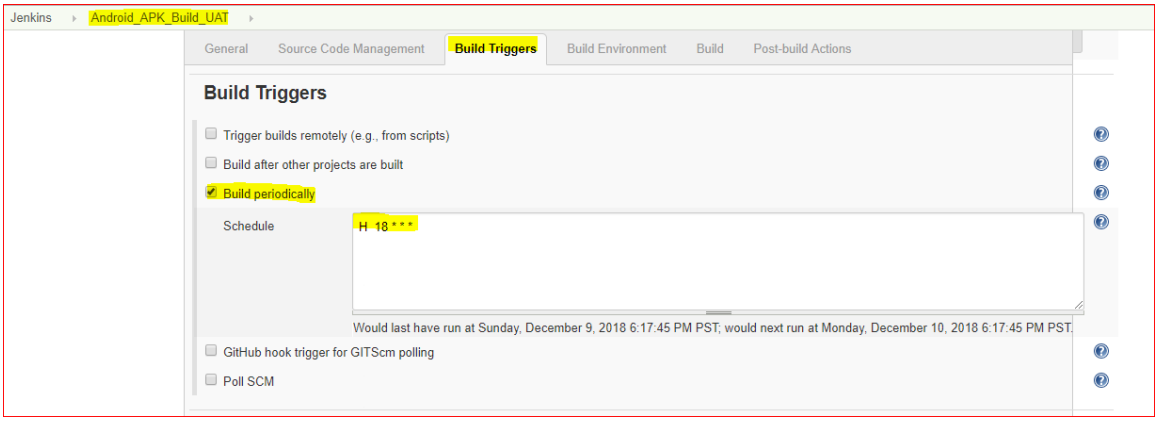
We are using SVN (Subversion) to Download the Android Code:
URL :
https://192.175.52.181/svn/HME/QSR/AZURE/HMEPulse_MobileApp/HMEPulse_MobileApp_Client/trunk



Step 3:

Android Build is scheduled at 6:PM PST which runs automatically every day.

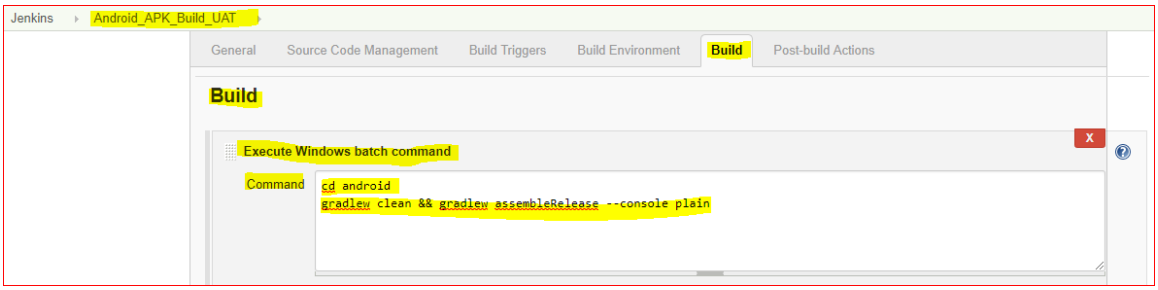
H 18 * * *



Step 4:

All the android build's batch commands and steps are mentioned here in the Build Environment Field:

```
cd android
gradlew clean && gradlew assembleRelease --console plain
```

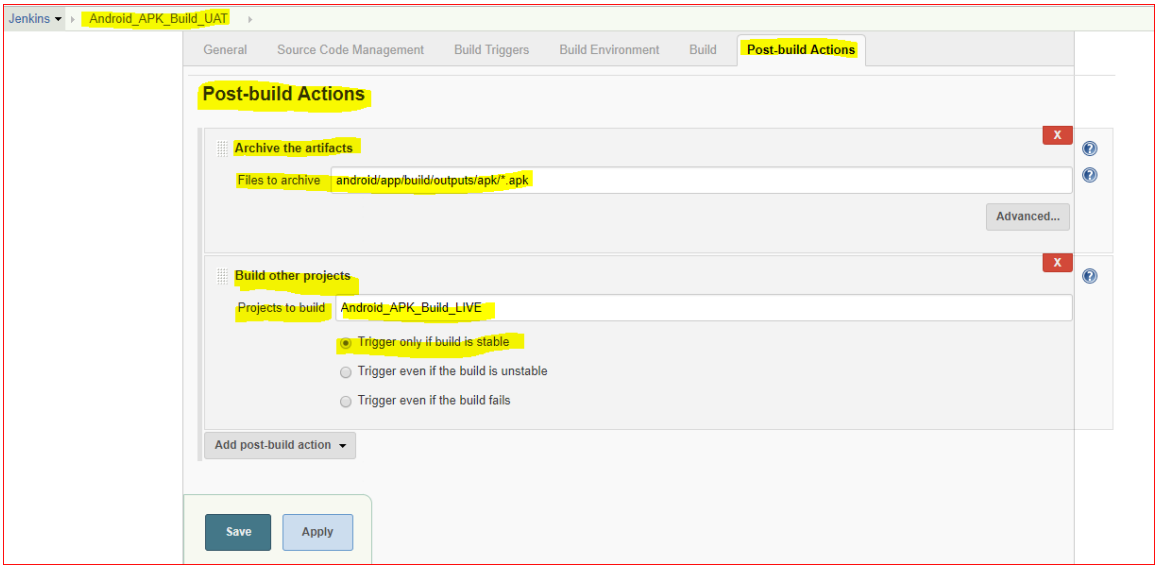


Step 5:

Post-build Actions:

Archive the Artifacts:

Files to Archive: android/app/build/outputs/apk/*.apk



Commands for Android_APK_Build_LIVE:

Files which have been edited before build command are being executed in Android_APK_Build_LIVE:

cd src/services/

(Get-Content ".\webServices.js") |

1)

Foreach-Object {$_.replace("https://hme-uat2-leaderboard.azurewebsites.net", "https://hme-live2-leaderboard.azurewebsites.net")} |
Foreach-Object {$_.replace("kZMb80K91$Q1", "Kfd149M$19*1")} |
Foreach-Object {$_.replace("Basic aG1lX3RlYW06a1pNYjgwSzkxJFEx", "Basic aG1lX3RlYW06S2ZkMTQ5TSQxOSox")} |

Foreach-Object
{$_.replace("https://registerpushnotification.azurewebsites.net/api/hme/store/aggregate/registernotification", "https://hme-live-registerpushnotification.azurewebsites.net/api/hme/store/aggregate/registernotification")} |
Foreach-Object {$_.replace("971161549671", "860124029336")} |
Set-Content ".\webServices.js"

2)

cd android/app/src/main/java/com/hm/
(Get-Content .\NotificationSettings.java) |
Foreach-Object {$_.replace("971161549671", "860124029336")} |
Foreach-Object {$_.replace("hme-uat-notificationhub", "hme-live-notificationhub")} |
Foreach-Object {$_.replace("Endpoint=sb://hme-pulse-notif-uat.servicebus.windows.net/;SharedAccessKeyName=DefaultListenSharedAccessSignature;SharedAccessKey=Ui+HpTNvTzGsyxeQoO+xhfcF/tkoD46eNuMjHjnPGJk=", "Endpoint=sb://hme-live-notificationhub-namespace.servicebus.windows.net/;SharedAccessKeyName=DefaultListenSharedAccessSignature;SharedAccessKey=YhyjJo2cw6sQ9cTgxlG0VZN86yk6EL5Qu5X3LmdkHyc=")} |
Foreach-Object {$_.replace("Endpoint=sb://hme-pulse-notif-dev.servicebus.windows.net/;SharedAccessKeyName=DefaultFullSharedAccessSignature;SharedAccessKey=BnWWIwN+lz+Ebs2OVFPEJoWJNwtJkF6Aq2oOxKXWHmI=", "Endpoint=sb://hme-live-notificationhub-namespace.servicebus.windows.net/;SharedAccessKeyName=DefaultFullSharedAccessSignature;SharedAccessKey=Az73/k+aq2cW2ADjkeIANZoej9IJXFwEZ5woKNz90os=")} |
Set-Content ".\NotificationSettings.java"

Command which have been used for LIVE:

cd android

```
gradlew clean && gradlew assembleRelease
cd android/app/build/outputs/apk/
ren app-release.apk live-app-release.apk
```

Monitoring Android_APK_Build_UAT and LIVE both:

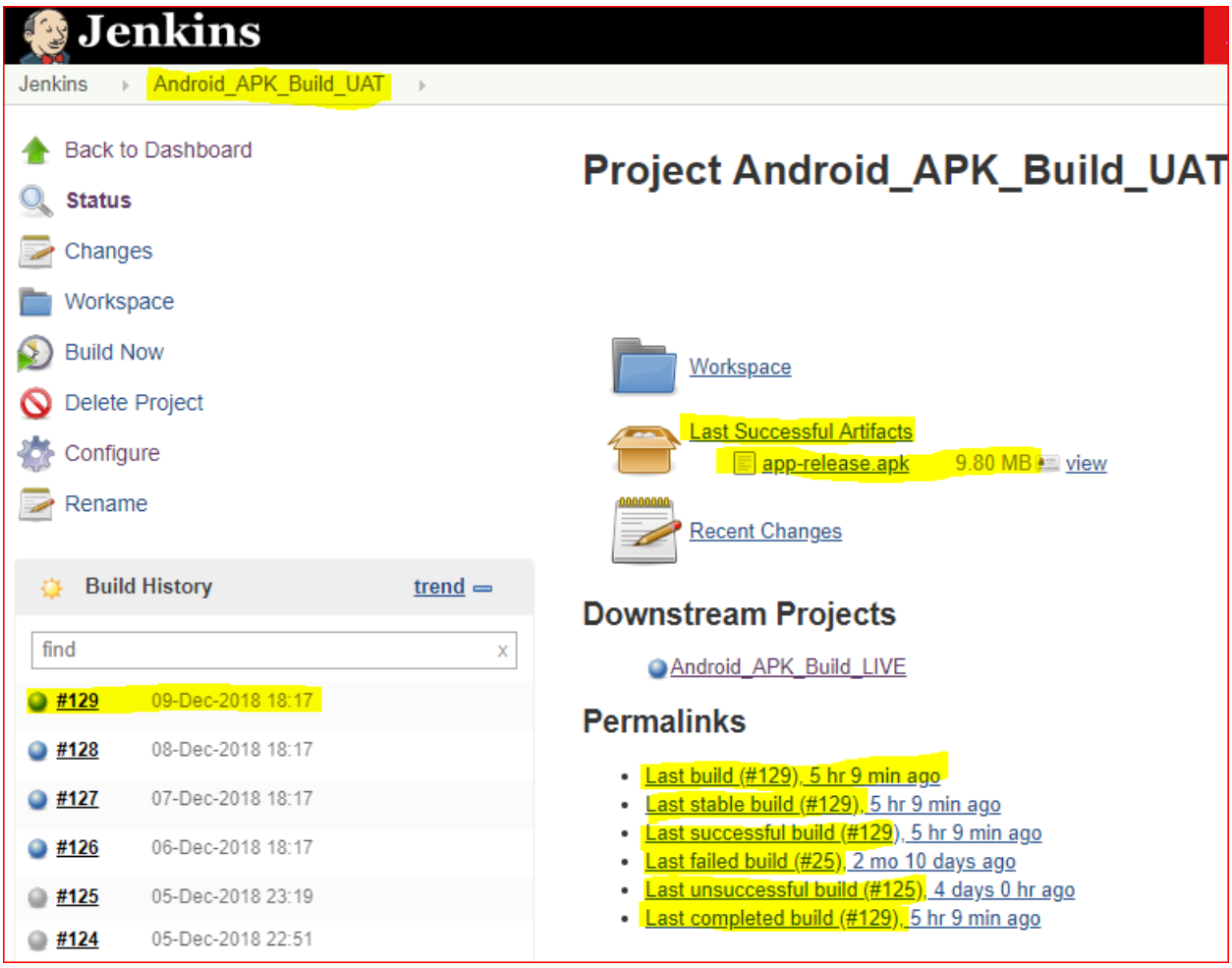
To check console log:

Here you can easily see Last Successful Build Details:

#129 is successful build has been completed.

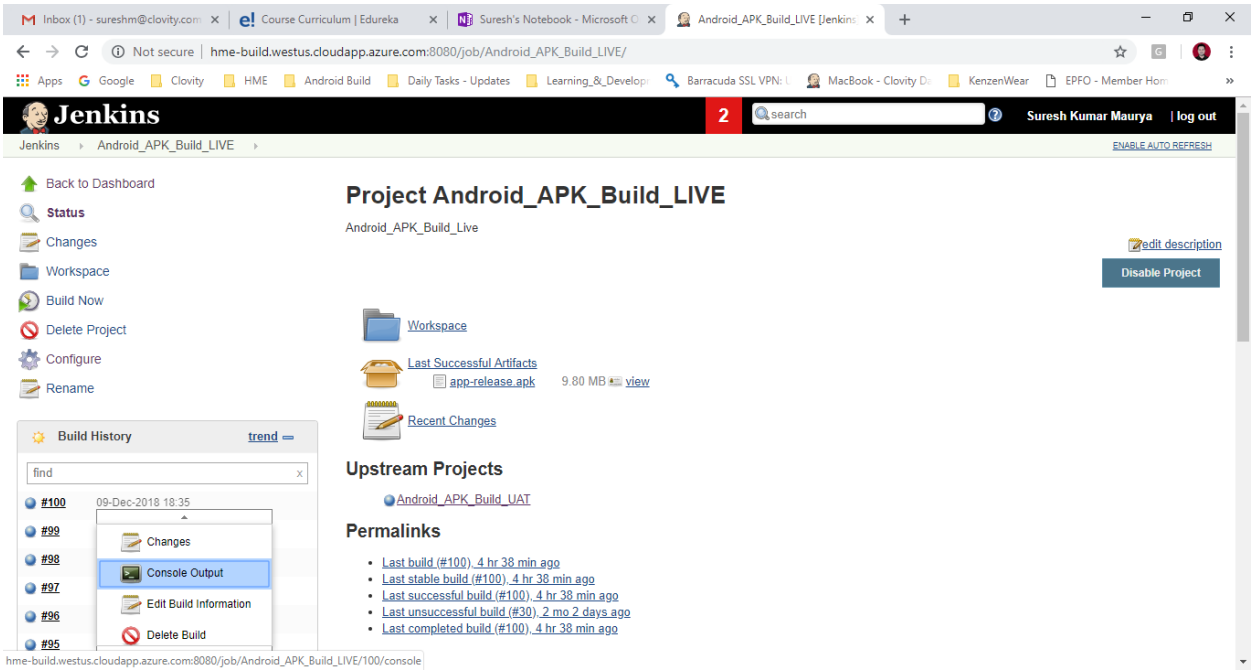
Last Successful Artifacts 9.80 MB which can be downloaded.

Downstream Project Detail is also mention in this window which you can see easily



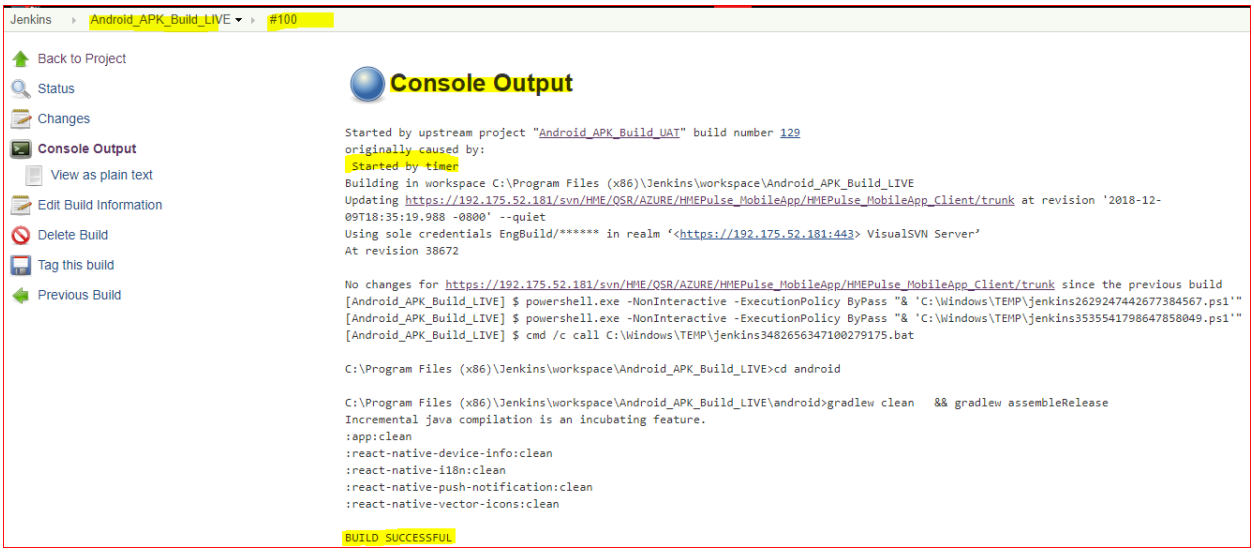
1 Click on the Build Job – Android_APK_Build_UAT or LIVE

2 Go to Build History and find out the Build No. starting with #100 and Click drop-down on Console Output



You can easily see and identify that the build has been **started by timer**, **BUILD SUCCESSFUL**

***If Build has been completed successfully you will see a message: BUILD SUCCESSFUL**



***If Build has been completed as Failed you will see a message: BUILD FAILED**

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Dublin, California 94568

```
        at java.lang.Thread.run(Thread.java:748)

FAILURE: Build failed with an exception.

* Where:
Build file 'C:\Program Files (x86)\Jenkins\workspace\Android_APK_Build_UAT\android\app\build.gradle' line: 6

* What went wrong:
A problem occurred evaluating project ':app'.
> Could not read script 'C:\Program Files (x86)\Jenkins\workspace\Android_APK_Build_UAT\node_modules\react-native\react.gradle' as it
does not exist.

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to get more log output.

BUILD FAILED
```