Restarting JENKINS: whenever Jenkins master configurational changes occur then it is a prerequisite to restart JENKINS which was deployed in Apache Tomcat server.

What is ALPS:🡪 ALPS is an acronym for “Application Level Provisioning System”. It is an internal tool that provides a single place to manage application metadata across all test levels and production. It is used for both Change Management (CM) and Operational tasks.

ALPS has two interface components :-

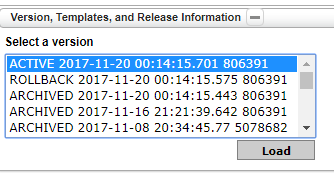
1. Alps Editor(web ui)
2. Alps Client(Command line)

Here we are using ALPS tool for managing the hosted Jenkins service in Tomcat .

The following steps are required to restart Tomcat where our Jenkins master runs:

Step:1—open [home.fedex.com](http://home.fedex.com) in browser and search with keyword “alps”.

* Now in “alps” home page on right side please click on “Alps Editor”
* Select “Tomcat App server” in the dropdown list
* Under “**View, Edit, or Clone Existing Config” choose Jenkins\_master**
* Under “**Version, Templates, and Release Information**” **choose Version as ‘Active’ and click on ‘Load’**

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* Once it is Loaded we can see the config section of JENKNIS, list of environments it is offering its services and the general settings etc….
* Make a note for the list of servers with respect to environment in which Jenkins is running.

Step:2—In Alps home page, on right side under 🡪User Tools click 🡪 “Download Alps v6 client “ and save to local desktop

Alps tool can be run either in windows or Linux:-

* Windows: Run alpsClient batch file and give the respective commands
* Linux: Using “Winscp” software push the Alps v6 client tool into any server

(i.e-“uje30007.idev.fedex.com”)

Running Alps tool through Linux-------------

Step:3—Open and the change the path of Variables like jre\_home, jar in “alpsClient” batch file present in Alps v6 client package with respect to the local setup

Step:4—Now Open putty session with hostname as “uje30007.idev.fedex.com” and login with giri credentials

Step:5—give ‘bash’ command and check for Alps package in the list of files by giving ‘ls –ltr’ command, then go to directory AlpsClient-6.0.0 by giving cd AlpsClient-6.0.0 and then run alpsclient.sh by giving ‘ ./alpsclient.sh’

It looks like as below

bash-3.2$ pwd

/home/f987303/AlpsClient-6.0.0

bash-3.2$ ls -ltr

total 705

drwxr-xr-x 2 f987303 fdxusers    549 Apr  4  2017 lib

-rwxr-xr-x 1 f987303 fdxusers    182 Apr  4  2017 sudhakar.txt

-rwxr-xr-x 1 f987303 fdxusers    183 Apr  4  2017 Karthik\_bounce.txt

-rwxr-xr-x 1 f987303 fdxusers    172 Apr  4  2017 ratc\_bouncetest.txt

-rwxr-xr-x 1 f987303 fdxusers    133 Apr  4  2017 alpsClient.sh

-rwxr-xr-x 1 f987303 fdxusers    345 Apr  4  2017 alps.txt

-rwxr-xr-x 1 f987303 fdxusers   1327 Apr  4  2017 log4j.xml

-rwxr-xr-x 1 f987303 fdxusers    320 Apr  4  2017 alps.client.properties

-rwxr-xr-x 1 f987303 fdxusers    170 Apr  4  2017 fp.properties

drwxr-xr-x 3 f987303 fdxusers     24 Apr  4  2017 data

-rw-r--r-- 1 f987303 fdxusers    127 Apr  4  2017 buildProject.properties

-rwxr-xr-x 1 f987303 fdxusers 109763 Apr  4  2017 AlpsClient.jar

-rwxr-xr-x 1 f987303 fdxusers    118 Apr  4  2017 alpsClient.bat

-rw-r--r-- 1 f987303 fdxusers   5548 Apr 18  2017 index.html.1

-rw-r--r-- 1 f987303 fdxusers   5548 Apr 18  2017 index.html

-rw-r--r-- 1 f987303 fdxusers    477 Apr 19  2017 wget-log

bash-3.2$  ./alpsClient.sh

Connecting to ALPS service : <http://pjb08041.sac.fedex.com:7878/AlpsService/service.v1.wsdl>

Server supports this client version <6.0.0>

Enter value for username:

987303

global argument 'username' set with value '987303'

Enter value for password:

global argument 'password' set

Enter value for provisioner:

Tomcat

Connecting to ALPS service : <http://pjb08041.sac.fedex.com:7878/AlpsService/service.v1.wsdl>

Commands retrieved successfully

Commands have been added to the client

global argument 'provisioner' set with value 'Tomcat'

alps(987303|Tomcat|<level>|<target>)>level L1

global argument 'level' set with value 'L1'

alps(987303|Tomcat|L1|<target>)>target jenkins\_masters

global argument 'target' set with value 'jenkins\_masters'

alps(987303|Tomcat|L1|jenkins\_masters)>info

Enter value for targetServer (i.e. target server(s)):

all

Connecting to ALPS service : <http://pjb08041.sac.fedex.com:7878/AlpsService/service.v1.wsdl>

c0002969.test.cloud.fedex.com:8080:RUNNING

c0002968.test.cloud.fedex.com:8080:RUNNING

(these are two servers in which dev-test Jenkins is running i.e…L1)

alps(987303|Tomcat|L1|jenkins\_masters)>

Here

The value of provisioner will be our Jenkins hosted server called “Tomcat”

The level--- here we have to give either L1, L4, L4PROD in which we want to restart

The Target should be either Jenkins(contains Jenkins legacy i.e test jenkins) or jenkins\_master(contains dev-test and prod)

Step:6—give “stop” command to shutdown the servers and then check status with command “info”

c0002969.test.cloud.fedex.com:8080:SHUTDOWN

c0002968.test.cloud.fedex.com:8080:SHUTDOWN

Step:7—give “start” command to start the servers again

Step:8—so now Jenkins will be restarted