**BUILD/DEPLOY OR RESTART PROCEDURE**

**For LOWER ENVIRONMENTS**

a) **Dev Env:**

* **Build and Deployment**: For Dev Environment,Devops Don’t do any build/deployment because jenkins job has configured to do build/deployment automatically whenever there is code change pushed to develop branch using Poll SCM for every 5mins.
* **Deployment:** It can be done whenever request comes from dev team or developers can trigger the respective service deployment in jenkins using below deployment procedure..
* **Restart:** It can be done whenever request comes from dev team or developers who has access to the server can restart using below restart procedure.

b)**QA/NEW Env:**

* **Build and Deployment**: It can be done whenever request comes from dev or ops team based on schedule given below.
* **Deployment:** It can be done whenever request comes from dev team or developers can trigger the respective service deployment in jenkins using below deployment procedure based on schedule given below.
* **Restart:** It can be done whenever request comes from dev team or developers who has access to the server can restart using below restart procedure based on schedule given below.

1.**Build and Deployment Procedure:**

* Login to jenkins using the Authorised credentials. The URL is “<https://dev-powerpay.ascent-online.com/jenkins> ”.
* Goto the “02-QualityAssurance” folder.

Note: Build is common for qa and new env’s but deployment has configured individually.

* open the respective service folder and trigger build,after successful build it will automatically triggers deployment for both env’s.
* This process is same for all services but for PE we have to load the tenants after completing the deployment.

1(a) The steps to be followed for loading the tenants are,

* login to the server where PE service is running,For QA (192.168.9.19),New(192.168.9.24)
* Load all the tenants using below commands.

**For qa Env:**curl --location --request GET '<https://qa-powerpay.ascent-online.com/qa/pe/manage/loadAllTenants'> --header 'Authorization: Basic YWRtaW46c2VjcmV0'

**For New Env:**curl --location --request GET '<https://uat-powerpay.ascent-online.com/new/pe/manage/loadAllTenants'> --header 'Authorization: Basic YWRtaW46c2VjcmV0'

* After loading the tenants,check the pending compilations using below commands,

**For qa Env:**tail -f /mnt/ELK/qa/pe/logs/pe.log | grep -E 'Loading scripts for tenant|Storage Configuration Files|Refreshing storage layouts for tenant|Pending Compilations'

**For New Env:**tail -f /mnt/ELK/new/pe/logs/pe.log | grep -E 'Loading scripts for tenant|Storage Configuration Files|Refreshing storage layouts for tenant|Pending Compilations'

* Once the pending compilations comes to 0, check all the tenants loaded successfully or not using below commands,

**For qa Env:**curl --location --request GET '<https://qa-powerpay.ascent-online.com/qa/pe/manage/getLoadedTenantList'> --header 'Authorization: Basic YWRtaW46c2VjcmV0'

**For New Env:**curl --location --request GET '<https://uat-powerpay.ascent-online.com/new/pe/manage/getLoadedTenantList'> --header 'Authorization: Basic YWRtaW46c2VjcmV0'

1(b) steps to be remembered:

* If request comes for all services build and deploy follow this sequence,

GE>report-process>report-gen>pe>org.

* Powerpay-UI and CM services are standalone services,we can trigger them individually. Better approach to trigger cm service first then other services.
* During deployment serivce will restart automatically,check the logs of each service by logging into the respective servers and use the below commands to check the logs

**QA ENV:**

**CM logs:**tail -f /mnt/ELK/qa/cm/logs/cm.log

**Ge logs:** tail -f /mnt/ELK/qa/powerpay-generalization-service/logs/powerpay-generalization-service.log

**Report-process logs:**tail -f /mnt/ELK/qa/report-processing-service/logs/report-processing-service.log

**report-generation logs:** tail -f /mnt/ELK/qa/report-generation-service/logs/report-generation-service.log

**Pe logs:**tail -f /mnt/ELK/qa/pe/logs/pe.log

**Org logs:** tail -f /mnt/ELK/qa/organization-service/logs/organization-service.log

**NEW ENV:**

**CM logs:**tail -f /mnt/ELK/new/cm/logs/cm.log

**Ge logs:** tail -f /mnt/ELK/new/powerpay-generalization-service/logs/powerpay-generalization-service.log

**Report-process logs:**tail -f /mnt/ELK/new/report-processing-service/logs/report-processing-service.log

**report-generation logs:** tail -f /mnt/ELK/new/report-generation-service/logs/report-generation-service.log

**Pe logs:**tail -f /mnt/ELK/new/pe/logs/pe.log

**Org logs**:tail -f /mnt/ELK/new/organization-service/logs/organization- service.log

2. **Deployment Procedure:**

* The procedure is same as build and deploy but here we will trigger only deployment of each service requested by dev or ops team based on the schedule.

3.**Restart Procedure:**

* **QA ENV:** All services are running in 192.168.9.19 server,login to this server using authorised credentials and restart the services using below commands and later check the logs using the commands given above in 1(b).
* **New ENV:** For new Env, GE and PE services are running in 192.168.9.24 and CM,Org,Report-process & report-generation are running in 192.168.9.28.login to thie respective server using authorised credentials and restart the services using below commands and later check the logs using the commands given above in 1(b).

**CM Service:** sudo systemctl restart cm.service

**GE Service:**sudo systemctl restart powerpay-generalization-service.service

**report-process:**sudo systemctl restart report-processing-service.service

**report-generation:**sudo systemctl restart report-generation-service.service

**pe:**sudo systemctl restart pe.service

**Org:**sudo systemctl restart organization-service.service

**Note:**

1. After restarting or build and deploy, in the logs check whether tomcat is started or not ,which indicates whether service is up or not.

Command to check whether service is running or not is,

sudo systemctl status <service\_name>

2. For powerpay-UI, we don’t have logs,So better approach is to open the UI and check whether changes are reflecting or not.

3. Tenant-list-api is not an application,it is running as a docker container.So if we are unable to the load the tenants in UI,then we need to check tenant-list-api.

4. Daily Schedule for build and deploy or restart is,

#######################  
 ---------- SCHEDULE-------------  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 9 AM  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 10 AM  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 1 PM  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 4 PM  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 6 PM  
 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

5. Please post a downtime message in java/devops and notice board groups,before staring any activity.

The format is,

+++++++++++++++++++++++++++++++++++++++  
 ++ Env:  
 ++ Activity:  
 ++ ticket:  
 ++ Date:  
 ++ Time:  
 ++ Downtime:  
 +++++++++++++++++++++++++++++++++++++++

6. If any build/deploy or restart request comes after 6pm,we will have to take approval from Anish yesuraj and confirmation from QA team/Rajesh kumar ranjan.