

## Onboarding Application on EDL

1: Go to Dev edge node: ITSUSRALSP07814 :

Path: /apps/EDL\_Admin/scripts/onboarding\_new.sh

This is the script which creates the steps that needs to be executed in order to create infrastructure:

```
[root@ITSUSRALSP07814:/apps/EDL_Admin/scripts]#
```

```
#-> sh onboarding_new.sh
```

```
onboarding_new.sh: line 11: banner: command not found
```

```
#####
```

This script will generate the commands for onboarding a specified project

```
#####
```

1. Please enter the Application code

Ex: P2P, ERICA

Appcode: sdl

2. Please enter the full path where you would like to create DB/FLD

Ex: /dev/edl/sc

Path: /dev/edl/sc/

3. Please enter the allocated project code number

Ex: 03, 07

Project Code: 32

d

Printing to the temp file

```
[root@ITSUSRALSP07814:/apps/EDL_Admin/scripts]#
```

```
#-> cat tempd
```

```
#####
```

```
#Application code: sdl
```

```
#Path: /dev/edl/sc/
```

```
#Project Code: 32
```

```
#####
```

#####

#Create HDFS Directories ( Run this on hdfs with hdfs keytab, be careful)

---

hdfs dfs -mkdir /dev/edl/sc//sdl

hdfs dfs -mkdir /dev/edl/sc//sdl/str

hdfs dfs -mkdir /dev/edl/sc//sdl/unstr

hdfs dfs -mkdir /dev/edl/sc//sdl/appcode

hdfs dfs -mkdir /dev/edl/sc//sdl/str/sdl\_core

hdfs dfs -mkdir /dev/edl/sc//sdl/str/sdl\_stg

hdfs dfs -mkdir /dev/edl/sc//sdl/str/sdl\_wrk

hdfs dfs -mkdir /dev/edl/sc//sdl/unstr/sdl\_core

hdfs dfs -mkdir /dev/edl/sc//sdl/unstr/sdl\_stg

hdfs dfs -mkdir /dev/edl/sc//sdl/unstr/sdl\_wrk

hdfs dfs -mkdir /dev/edl/sc//sdl/appcode/scripts

hdfs dfs -mkdir /dev/edl/sc//sdl/appcode/configs

hdfs dfs -mkdir /dev/edl/sc//sdl/appcode/logs

hdfs dfs -chmod -R 771 /dev/edl/sc//sdl

#####

#Generating ACL commands

#####

#ACL commands for Developer Role

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-dvlp-usr:rwx  
/dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-dvlp-usr:rwx  
/dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/appcode/logs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/appcode/logs
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/unstr/sdl_core
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/unstr/sdl_core
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/unstr/sdl_wrk
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/unstr/sdl_wrk
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/unstr/sdl_stg
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-dvlp-usr:rwx /dev/edl/sc//sdl/unstr/sdl_stg
```

#ACL commands for RPT Role

#ACL commands for ETL Role

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-etl-sa:rwx /dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-etl-sa:rwx /dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-etl-sa:rwx /dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-etl-sa:rwx /dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/appcode/logs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/appcode/logs
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_core
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_core
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_wrk
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_wrk
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_stg
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-etl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_stg
```

#### #ACL commands for Support Role

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/scripts
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/configs
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/logs
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/appcode/logs
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_core
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_core
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_wrk
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-suppl-sa:rwX /dev/edl/sc//sdl/unstr/sdl_wrk
```

```
hdfs dfs -setfacl -R -m default:group:its-app-edl-dev-proj32-supplusr:r-x /dev/edl/sc//sdl/unstr/sdl_stg
```

```
hdfs dfs -setfacl -R -m group:its-app-edl-dev-proj32-supplusr:r-x /dev/edl/sc//sdl/unstr/sdl_stg
```

```
#####
```

```
#Generating Database Creation and Grant commands ( Run this in Hue )
```

```
#####
```

```
#Login via HUE to the respective environment and execute the below commands in HIVE
```

```
create database sdl_core location '/dev/edl/sc//sdl/str/sdl_core';
```

```
create database sdl_wrk location '/dev/edl/sc//sdl/str/sdl_wrk';
```

```
create database sdl_stg location '/dev/edl/sc//sdl/str/sdl_stg';
```

```
#####
```

```
#Generating Role Creation commands
```

---

```
#Login via HUE to the respective environment and execute the below commands in HIVE
```

```
create role sdl_proj32_dvlpr_role;
```

```
create role sdl_proj32_etl_role;
```

```
create role sdl_proj32_rpt_role;
```

```
create role sdl_proj32_suppl_role;
```

```
#URI Grants for Developer Role
```

```
grant all on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_core' to role sdl_proj32_dvlpr_role;
```

```
grant all on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_wrk' to role sdl_proj32_dvlpr_role;
```

```
grant all on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_stg' to role sdl_proj32_dvlpr_role;
```

```
#URI Grants for ETL Role
```

```
grant all on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_core' to role sdl_proj32_etl_role;
```

```
grant all on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_wrk' to role sdl_proj32_etl_role;
```

```
grant all on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_stg' to role sdl_proj32_etl_role;
```

#### #URI Grants for Support Role

```
grant select on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_core' to role sdl_proj32_supp_role;  
grant select on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_wrk' to role sdl_proj32_supp_role;  
grant select on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_stg' to role sdl_proj32_supp_role;
```

#### #URI Grants for RPT Role

```
grant select on uri 'hdfs://nameservice1/dev/edl/sc//sdl/str/sdl_core' to role sdl_proj32_rpt_role;
```

#####

#### Assign the roles to the Groups

#####

```
grant role sdl_proj32_dvlpr_role to `group its-app-edl-dev-proj32-dvlpr-usr`;  
grant role sdl_proj32_etl_role to group `its-app-edl-dev-proj32-etl-sa`;  
grant role sdl_proj32_rpt_role to group `its-app-edl-dev-proj32-rpt-sa`;  
grant role sdl_proj32_supp_role to group `its-app-edl-dev-proj32-suppl-sa`;
```

#####

#### Grant access to the roles on databases

#####

```
grant all on database sdl_core to role sdl_proj32_dvlpr_role;  
grant all on database sdl_wrk to role sdl_proj32_dvlpr_role;  
grant all on database sdl_stg to role sdl_proj32_dvlpr_role;
```

```
grant all on database sdl_core to role sdl_proj32_etl_role;  
grant all on database sdl_wrk to role sdl_proj32_etl_role;  
grant all on database sdl_stg to role sdl_proj32_etl_role;  
grant select on database sdl_core to role sdl_proj32_rpt_role;
```

```
grant select on database sdl_core to role sdl_proj32_supp_role;
grant select on database sdl_wrk to role sdl_proj32_supp_role;
grant select on database sdl_stg to role sdl_proj32_supp_role;
```

#####

Generating the commands for the Edge node folders

Execute these Linux commands on the Edge node ( No need of HDFS Key tab , Be careful as local folders does not have back up )

#####

```
mkdir /data/data02/dev/edl/sc//sdl
mkdir /data/data02/dev/edl/sc//sdl/appcode
mkdir /data/data02/dev/edl/sc//sdl/appcode/scripts
mkdir /data/data02/dev/edl/sc//sdl/appcode/logs
mkdir /data/data02/dev/edl/sc//sdl/appcode/configs
mkdir /data/data02/dev/edl/sc//sdl/landing
chmod -R 771 /data/data02/dev/edl/sc//sdl
```

#####

Assign the extended ACL commands

---

---

#Local ACL commands for Developer Role

```
setfacl -R -dm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/appcode/scripts
setfacl -R -Rm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/appcode/scripts
setfacl -R -dm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/appcode/logs
setfacl -R -Rm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/appcode/logs
setfacl -R -dm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/appcode/configs
setfacl -R -Rm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/appcode/configs
setfacl -R -dm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/landing
setfacl -R -Rm group:its-app-edl-dev-proj32-dvlp-usr:rwx /data/data02/dev/edl/sc//sdl/landing
```

#### #Local ACL commands for ETL Role

```
setfacl -R -dm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/appcode/scripts
setfacl -R -Rm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/appcode/scripts
setfacl -R -dm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/appcode/logs
setfacl -R -Rm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/appcode/logs
setfacl -R -dm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/appcode/configs
setfacl -R -Rm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/appcode/configs
setfacl -R -dm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/landing
setfacl -R -Rm group:its-app-edl-dev-proj32-etl-sa:rwX /data/data02/dev/edl/sc//sdl/landing
```

#### #Local ACL commands for Support Role

```
setfacl -R -dm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/appcode/scripts
setfacl -R -Rm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/appcode/scripts
setfacl -R -dm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/appcode/logs
setfacl -R -Rm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/appcode/logs
setfacl -R -dm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/appcode/configs
setfacl -R -Rm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/appcode/configs
setfacl -R -dm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/landing
setfacl -R -Rm group:its-app-edl-dev-proj32-supp-usr:r-x /data/data02/dev/edl/sc//sdl/landing
```

Now once all these steps are done:

Take database full path:

/dev/edl/sc//sdl/str/sdl\_core

/dev/edl/sc//sdl/str/sdl\_stg

/dev/edl/sc//sdl/str/sdl\_wrk

And paste them :

1: hdfs → configuration → **Sentry Synchronization Path Prefixes** sentry.hdfs.integration.path.prefixes



Add the path there like below:

Sentry Synchronization HDFS (Service-Wide) ?

Path Prefixes

sentry.hdfs.integration.path.prefixes

/user/hive/warehouse

/dev/edl/sc/e2emf/str/e2emf\_core

/dev/edl/sc/e2emf/str/e2emf\_stg

/dev/edl/sc/e2emf/str/e2emf\_wrk

2: Hive → Configurations →

Hive Metastore Server Advanced Configuration Snippet (Safety Valve) for hive-site.xml

Click on view as xml.

Hive Metastore Server Advanced Configuration Snippet (Safety Valve) for hive-site.xml

Hive Metastore Server Default Group ?

View as XML

Name sentry.hdfs.integration.path.prefixes

Value /user/hive/warehouse,/dev/edl/sc/e2emf/str/e2emf\_core,/dev/edl/sc/e2emf/str/e2emf\_stg,/dev/edl/sc/e2emf/str/e2emf\_wrk,/dev/edl/financ

Description

Final

3: Add the 3 databases path like below , in the list of database paths put a comma and paste a database path and then again a comma and second database . See below:

Hive Metastore Server Advanced Configuration Snippet (Safety Valve) for hive-site.xml

Hive Metastore Server Default Group ?

View Editor

```
core,/dev/edl/sc/edc/str/edc_stg,/dev/edl/sc/edc/str/edc_wrk,/dev/edl/pharma/rnd/safety/gsd/str/gsd_dl,/dev/edl/pharma/rnd/safety/epin/str/epin_dl,/dev/edl/pharma/rnd/discovery/rdd/str/rdd_dl,/dev/edl/infra/agilecraft/str/agilecraft_stg,/dev/edl/infra/trackwise/str/trackwise_stg,/dev/edl/sdl/pmo/str/sc_pmo_core,/dev/edl/sdl/pmo/str/sc_pmo_stg,/dev/edl/sdl/pmo/str/sc_pmo_wrk,/dev/edl/infra/jiraalign/str/jiraalign_stg,/dev/edl/md/rotc/str/rotc_core,/dev/edl/md/rotc/str/rotc_stg,/dev/edl/md/rotc/str/rotc_wrk</value></property><property><name>datanucleus.connectionPool.minPoolSize</name><value>10</value><description>Case 146682 - PROD: Hive Metastore has bad health</description></property></property>
```

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4: Save the above and go to Sentry → Configurations → Sentry Service Advanced Configuration Snippet (Safety Valve) for sentry-site.xml ( Click on view as XML ) , Add the path just like above in Hive.

Sentry Service Advanced Configuration Snippet (Safety Valve) for sentry-site.xml

Sentry (Service-Wide) ?

View Editor

```
str/wlmrt_core,/dev/edl/consumer/wlmrt/str/wlmrt_stg,/dev/edl/consumer/wlmrt/str/wlmrt_wrk,/dev/edl/sc/edc/str/edc_core,/dev/edl/sc/edc/str/edc_stg,/dev/edl/sc/edc/str/edc_wrk,/dev/edl/pharma/rnd/safety/gsd/str/gsd_dl,/dev/edl/pharma/rnd/discovery/rdd/str/rdd_dl,/dev/edl/pharma/rnd/safety/epin/str/epin_dl,/dev/edl/infra/agilecraft/str/agilecraft_stg,/dev/edl/infra/trackwise/str/trackwise_stg,/dev/edl/sdl/pmo/str/sc_pmo_core,/dev/edl/sdl/pmo/str/sc_pmo_stg,/dev/edl/sdl/pmo/str/sc_pmo_wrk,/dev/edl/infra/jiraalign/str/jiraalign_stg,/dev/edl/md/rotc/str/rotc_core,/dev/edl/md/rotc/str/rotc_stg,/dev/edl/md/rotc/str/rotc_wrk</value></property>
```

Once all these steps are done you can either restart full cluster or Hive, Hdfs and Sentry restart after deploying the client configuration.

Go to Database path and check: the database would have hive ownership automatically. That means it has been taken by hive.

Once the database is ready. Prepare the email. You can see the email from my emails:

Search for Provisioning and keep a copy of it. Make the necessary change in the document attached.

Created by	Created on
Avinash Singh	2 <sup>nd</sup> July 2019