Salesforce License Monitoring Setup Guide.

Prerequisite:
Connection to Salesforce production for exporting the objects
ant: Apache Ant (TM) version 1.9.15
data loader: dataloader-38.0.1-uber

Files required for the integration

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ pwd
/software/codedev/misc_script/UTIL/LICENSE_DASHBOARD
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l build_export.xml
-rw-r--r-- 1 codedev apache 4238 Sep 22 07:05 build_export.xml
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l prod_build.properties
-rw-r--r-- 1 codedev apache 181 Sep 22 07:05 prod_build.properties
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ 
```

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l ant-lib
total 70200
-rw-r--r-- 1 codedev apache    119512 Dec 10  2020 ant-contrib-0.6.jar
-rw-r--r-- 1 codedev apache 16860227 Dec 10  2020 ant-salesforce.jar
-rw-r--r-- 1 codedev apache 13535842 Dec 10  2020 dataloader-38.0.1-uber.jar
-rw-r--r-- 1 codedev apache 16905982 Jan 27  2020 dataloader-48.0.0-uber.jar
-rw-r--r-- 1 codedev apache 21525819 Aug 16 23:26 dataloader-52.0.0-uber.jar
-rw-r--r-- 1 codedev apache  2844113 Aug 17 21:50 jsout.txt
-rw-r--r-- 1 codedev apache    76166 Dec 10  2020 xmltask.jar
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ 
```

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ pwd
/software/codedev/misc_script/UTIL/LICENSE_DASHBOARD
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l soqlDir
total 12
-rw-r--r-- 1 codedev apache 134 Sep 27 19:55 PackageLicense.full
-rw-r--r-- 1 codedev apache 132 Sep 26 23:14 user.full
-rw-r--r-- 1 codedev apache 161 Sep 30 04:34 userlicense.full
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ 
```

List of objects for the export

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ cat objects.txt
userlicense.full
user.full
PackageLicense.full
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ 
```

Export output dir

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l exportDirprod
total 16
-rw-r--r-- 1 codedev apache 692 Nov  8 12:30 PackageLicense.full.csv
-rw-r--r-- 1 codedev apache 624 Nov  8 12:30 PackageLicense.full.csv_1
-rw-r--r-- 1 codedev apache  19 Nov  8 12:30 user.full.csv
-rw-r--r-- 1 codedev apache 185 Nov  8 12:30 userlicense.full.csv
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ 
```

1. Salesforce License Dashboard

https://cdnsfdc.cadence.com/sfdc_dashboard/

SALESFORCE LICENSE DASHBOARD

Sat Oct 2 00:00:39 PDT 2021

License Status In Salesforce ORG

NAME	TOTALLICENSES	USEDLICENSES	REMAINING
Salesforce Platform	5634	2753	2881
Force.com	6224	1873	4351
Customer Community	125020	117145	7875
Salesforce	4156	3696	460

License Utilization

NAME	TOTALLICENSES	USEDLICENSES	REMAINING
Salesforce Lightning	1555	1019	536
Salesforce Service	1000	936	64
Salesforce Sales	1601	1741	-140
REMAINING Force.com (REMAINING Force.com in ORG (4351) - Salesforce Platform USEDLICENSES (2753))	6224	1873	1598

Managed Package License Status

NAMESPACEPREFIX	PACKAGE NAME	ALLOWEDLICENSES	USEDLICENSES	REMAINING	EXPIRATIONDATE
Apttus_CPQAdmin	Conga CPQ Setup	5	5	0	2024-03-30
Apttus	Conga Contract Lifecycle Management	5640	4969	671	2024-03-30
APXTConga4	Conga Composer	360	359	1	
Apttus_XAAdmin	Conga X-Author Enterprise Admin	1	1	0	2019-02-12
Apttus_Approval	Conga Approvals	5640	4971	669	2024-03-30
Apttus_Proposal	Conga Quote Management	440	416	24	2024-03-30
SVMXC	ServiceMax	101	99	2	2023-10-21
Apttus_Config2	Conga Configuration & Pricing	440	420	20	2024-03-30
Apttus_DocGen	Conga Custom Docgen API	440	412	28	2024-03-30
Apttus_XApps	Conga X-Author Enterprise	440	413	27	2024-03-30
Apttus_XAppsDS	Conga X-Author Designer For Excel	440	411	29	2024-03-30
Apttus_XADocGen	Conga X-Author Enterprise Document Generation	440	411	29	2024-03-30

Previous license status can be checked with the
https://cdnsfdc.cadence.com/sfdc_dashboard/100221.html URL. (MMDDYY.html)

SALESFORCE LICENSE DASHBOARD

Sat Oct 2 00:00:39 PDT 2021

License Status In Salesforce ORG

NAME	TOTALLICENSES	USEDLICENSES	REMAINING
Salesforce Platform	5634	2753	2881
Force.com	6224	1873	4351
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License Utilization

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Apttus_CPQAdmin	Conga CPQ Setup	5	5	0	2024-03-30
Apttus	Conga Contract Lifecycle Management	5640	4969	671	2024-03-30
APXTConga4	Conga Composer	360	359	1	
Apttus_XAAdmin	Conga X-Author Enterprise Admin	1	1	0	2019-02-12
Apttus_Approval	Conga Approvals	5640	4971	669	2024-03-30
Apttus_Proposal	Conga Quote Management	440	416	24	2024-03-30
SVMXC	ServiceMax	101	99	2	2023-10-21
Apttus_Config2	Conga Configuration & Pricing	440	420	20	2024-03-30
Apttus_DocGen	Conga Custom Docgen API	440	412	28	2024-03-30
Apttus_XApps	Conga X-Author Enterprise	440	413	27	2024-03-30
Apttus_XAppsDS	Conga X-Author Designer For Excel	440	411	29	2024-03-30
Apttus_XADocGen	Conga X-Author Enterprise Document Generation	440	411	29	2024-03-30

JOB scheduled to refresh the dashboard with the frequency of 15 minutes.

```
[codedev@vlsj-deploybox exportPROD_21]$ hostname
vlsj-deploybox
[codedev@vlsj-deploybox exportPROD_21]$ crontab -l | grep DASHBOARD
00,15,30,45 * * * * (source /software/codedev/.bashrc ; cd /software/codedev/misc_script/UTIL/LICENSE_DASHBOARD && bash generate_dashboard.sh)
[codedev@vlsj-deploybox exportPROD_21]$
```

Scripts required to refresh the dashboard.

soqlDir.zip   soqlDir_2.zip   generate_dashboard.sh
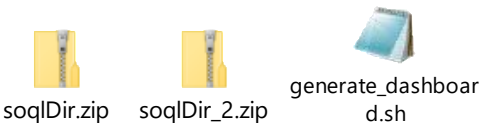
Required file to support ant/data loader connection with salesforce.

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ pwd
/software/codedev/misc_script/UTIL/LICENSE_DASHBOARD
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l ant-lib
total 70200
-rw-r--r-- 1 codedev apache   119512 Dec 10  2020 ant-contrib-0.6.jar
-rw-r--r-- 1 codedev apache 16860227 Dec 10  2020 ant-salesforce.jar
-rw-r--r-- 1 codedev apache 13535842 Dec 10  2020 dataloader-38.0.1-uber.jar
-rw-r--r-- 1 codedev apache 16905982 Jan 27  2020 dataloader-48.0.0-uber.jar
-rw-r--r-- 1 codedev apache 21525819 Aug 16 23:26 dataloader-52.0.0-uber.jar
-rw-r--r-- 1 codedev apache  2844113 Aug 17 21:50 jsout.txt
-rw-r--r-- 1 codedev apache    76166 Dec 10  2020 xmltask.jar
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$
```

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l soqlDir
total 12
-rw-r--r-- 1 codedev apache 134 Sep 27 19:55 PackageLicense.full
-rw-r--r-- 1 codedev apache 132 Sep 26 23:14 user.full
-rw-r--r-- 1 codedev apache 161 Sep 30 04:34 userlicense.full
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ cat soqlDir/user.full
select count(id) from user  where  isactive = true  and profile.name in ('Cadence General User Lightning','4_4 - Apttus Lightning')
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$
```

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l soqlDir_2
total 4
-rw-r--r-- 1 codedev apache 86 Sep 26 23:15 user.full
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ cat soqlDir_2/user.full
select count(id) from user  WHERE UserPermissionsSupportUser = True and IsActive=True
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$
```

Script will connect with salesforce production execute the SOQL and fetch the data in the below directory

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l exportDirprod
total 16
-rw-r--r-- 1 codedev apache 692 Nov  8 12:30 PackageLicense.full.csv
-rw-r--r-- 1 codedev apache 624 Nov  8 12:30 PackageLicense.full.csv_1
-rw-r--r-- 1 codedev apache  19 Nov  8 12:30 user.full.csv
-rw-r--r-- 1 codedev apache 185 Nov  8 12:30 userlicense.full.csv
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$
```

```
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$ ls -l exportDirprod_2
total 4
-rw-r--r-- 1 codedev apache 18 Nov  8 12:30 user.full.csv
[codedev@vlsj-deploybox LICENSE_DASHBOARD]$
```

Then script will read the fetched data and prepare the data to view in the dashboard.

2. Non-Lightning Access granted to Lightning Profile User report

Job scheduled on vlsj-deploybox server to generate Salesforce active users list and sftp to wcoratstdbl02.

```
[codedev@vlsj-deploybox exportPROD_21_ORA]$ hostname
vlsj-deploybox
[codedev@vlsj-deploybox exportPROD_21_ORA]$ crontab -l | grep object_for_license_utilization.sh
05 00 * * * (source /software/codedev/.bashrc ; cd /software/codedev/misc_script/UTIL/exportPROD_21_ORA && bash object_for_license_utilization.sh)
[codedev@vlsj-deploybox exportPROD_21_ORA]$
```

object_for_license_utilization.sh   soqlDir.zip   expect_object_for_license_utilization.sh

SOQL Used

```
[codedev@vlsj-deploybox exportPROD_21_ORA]$ pwd
/software/codedev/misc_script/UTIL/exportPROD_21_ORA
[codedev@vlsj-deploybox exportPROD_21_ORA]$ ls -l soqlDir
total 44
-rw-r--r-- 1 codedev apache   275 Jul 12  2020 ObjectPermissions.full
-rw-r--r-- 1 codedev apache    47 Oct 17 21:54 PackageLicense.full
-rw-r--r-- 1 codedev apache    90 Jul 12  2020 PermissionSetAssignment.full
-rw-r--r-- 1 codedev apache  5553 May 18 00:08 PermissionSet.full
-rw-r--r-- 1 codedev apache  5567 Oct 13 02:36 Profile.full
-rw-r--r-- 1 codedev apache  4082 Oct 18 02:13 user.full
-rw-r--r-- 1 codedev apache  4129 Oct 18 02:13 user.full-ORG-18OCT-2021
-rw-r--r-- 1 codedev apache   212 Oct  4 21:52 UserLicense.full
[codedev@vlsj-deploybox exportPROD_21_ORA]$
```

Property file to connect with Salesforce

```
/software/codedev/misc_script/UTIL/exportPROD_21_ORA
[codedev@vlsj-deploybox exportPROD_21_ORA]$ ls -l prod_build.properties
-rw-r--r-- 1 codedev apache 177 Oct 31 23:08 prod_build.properties
[codedev@vlsj-deploybox exportPROD_21_ORA]$ ls -l build_export.xml
-rw-r--r-- 1 codedev apache 4238 Sep 22 07:05 build_export.xml
[codedev@vlsj-deploybox exportPROD_21_ORA]$
```

```
[codedev@vlsj-deploybox exportPROD_21_ORA]$ pwd
/software/codedev/misc_script/UTIL/exportPROD_21_ORA
[codedev@vlsj-deploybox exportPROD_21_ORA]$ ls -l ant-lib
total 70200
-rw-r--r-- 1 codedev apache   119512 Dec 10  2020 ant-contrib-0.6.jar
-rw-r--r-- 1 codedev apache 16860227 Dec 10  2020 ant-salesforce.jar
-rw-r--r-- 1 codedev apache 13535842 Dec 10  2020 dataloader-38.0.1-uber.jar
-rw-r--r-- 1 codedev apache 16905982 Jan 27  2020 dataloader-48.0.0-uber.jar
-rw-r--r-- 1 codedev apache 21525819 Aug 16 23:26 dataloader-52.0.0-uber.jar
-rw-r--r-- 1 codedev apache  2844113 Aug 17 21:50 jsout.txt
-rw-r--r-- 1 codedev apache    76166 Dec 10  2020 xmltask.jar
[codedev@vlsj-deploybox exportPROD_21_ORA]$
```

The script will read the below list and fetch data for the below objects.

```
[codedev@vlsj-deploybox exportPROD_21_ORA]$ pwd
/software/codedev/misc_script/UTIL/exportPROD_21_ORA
[codedev@vlsj-deploybox exportPROD_21_ORA]$ cat objects.txt
Profile.full
ObjectPermissions.full
PermissionSetAssignment.full
PermissionSet.full
user.full
UserLicense.full
PackageLicense.full
[codedev@vlsj-deploybox exportPROD_21_ORA]$
```

```
[codedev@vlsj-deploybox exportPROD_21_ORA]$ pwd
/software/codedev/misc_script/UTIL/exportPROD_21_ORA
[codedev@vlsj-deploybox exportPROD_21_ORA]$ cat objects.txt
Profile.full
ObjectPermissions.full
PermissionSetAssignment.full
PermissionSet.full
user.full
UserLicense.full
PackageLicense.full
[codedev@vlsj-deploybox exportPROD_21_ORA]$
```

SOQL output file location

```
[codedev@vlsj-deploybox export_ORA_LIGHTNING]$ pwd
/backup/export_ORA_LIGHTNING
[codedev@vlsj-deploybox export_ORA_LIGHTNING]$ ls -l ARCH
total 45056
-rw-r--r-- 1 codedev apache     6278 Nov  8 00:11 email_alert.email_110821
-rw-r--r-- 1 codedev apache  9291049 Nov  8 00:05 ObjectPermissions.csv
-rw-r--r-- 1 codedev apache    30349 Nov  8 00:05 ObjectPermissions.full_110821.log
-rw-r--r-- 1 codedev apache     3019 Nov  8 00:11 PackageLicense.csv
-rw-r--r-- 1 codedev apache     5654 Nov  8 00:11 PackageLicense.full_110821.log
-rw-r--r-- 1 codedev apache 26661653 Nov  8 00:06 PermissionSetAssignment.csv
-rw-r--r-- 1 codedev apache   194707 Nov  8 00:06 PermissionSetAssignment.full_110821.log
-rw-r--r-- 1 codedev apache   644385 Nov  8 00:06 PermissionSet.csv
-rw-r--r-- 1 codedev apache    13172 Nov  8 00:06 PermissionSet.full_110821.log
-rw-r--r-- 1 codedev apache    13176 Nov  8 00:05 Profile.full_110821.log
-rw-r--r-- 1 codedev apache   192786 Nov  8 00:05 Profiles.csv
-rw-r--r-- 1 codedev apache    16134 Nov  8 00:11 user.full_110821.log
-rw-r--r-- 1 codedev apache     5946 Nov  8 00:11 UserLicense.full_110821.log
-rw-r--r-- 1 codedev apache     3588 Nov  8 00:11 UserLicenses.csv
-rw-r--r-- 1 codedev apache  8813043 Nov  8 00:11 users.csv
[codedev@vlsj-deploybox export_ORA_LIGHTNING]$
```

Oracle database server
hostname: wcoratstdbl02
SID: sfmon
Username: sfprod21
Pass: sfprod21
oracle/ Bab@160tul
Script Location : /usr/orasys/work/jsaini/LIGHTNING_2021

Received salesforce data from vlsj-deploybox server in the below directory to load in the oracle database.

```
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>pwd
/usr/orasys/work/jsaini/LIGHTNING_2021
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>ls -l *.csv
-rw-r--r-- 1 oracle dba  9291049 Nov  8 00:11 ObjectPermissions.csv
-rw-r--r-- 1 oracle dba     3019 Nov  8 00:11 PackageLicense.csv
-rw-r--r-- 1 oracle dba 26661653 Nov  8 00:11 PermissionSetAssignment.csv
-rw-r--r-- 1 oracle dba   644385 Nov  8 00:11 PermissionSet.csv
-rw-r--r-- 1 oracle dba   192786 Nov  8 00:11 Profiles.csv
-rw-r--r-- 1 oracle dba     3588 Nov  8 00:11 UserLicenses.csv
-rw-r--r-- 1 oracle dba  8813043 Nov  8 00:11 users.csv
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

Job scheduled on wcoratstdbl0 server

```
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>hostname
wcoratstdbl02
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>crontab -l | grep gen_lightning_users_breached_rep.sh
00 02 * * * /usr/orasys/work/jsaini/LIGHTNING_2021/gen_lightning_users_breached_rep.sh /dev/null 2>&1
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

Scripts required to generate the report.

gen_lightning_users_
breached_rep.sh

PermissionSet.zip

PermissionSetAssignment.zip

profilemaplig.zip

UserLicenses.zip

users.zip

create_view_21.zip

ObjectPermissions.zip

The script will connect with the database, truncate all the required tables and load the data with the data loader. Detail is available in the attached log

gen_lightning_users_
breached_rep_log.txt

View location

```
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>ls -l create_view_21
total 136
-rw-r--r-- 1 oracle dba    288 Oct 11 21:46 create_all_views.sql
-rw-r--r-- 1 oracle dba   2690 Oct 18 02:32 FORCECOM_OBJ_PERMISSIONS.sql
-rw-r--r-- 1 oracle dba   2557 Oct 11 22:11 LIGHTNINGLICENSECOMPLIENCE_6.sql
-rw-r--r-- 1 oracle dba   2586 Oct 17 23:15 LIGHTNING_OBJ_PERMISSIONS.sql
-rw-r--r-- 1 oracle dba  12630 Jul 15 04:16 VIEW_PROFILEACCESS.sql
-rw-r--r-- 1 oracle dba  11840 Jul 20 03:48 VIEW_PROFILE_OBJECTPERMISSIONS.sql
-rw-r--r-- 1 oracle dba  13403 Aug 26 17:09 VIEW_USEROBJECTPERMISSIONSUMMARY_ALL_55.sql
-rw-r--r-- 1 oracle dba  13412 May 18 23:50 VIEW_USEROBJECTPERMISSIONSUMMARYLIG_5.sql
-rw-r--r-- 1 oracle dba   1146 May 18 23:20 VIEW_USEROBJECTS_2.sql
-rw-r--r-- 1 oracle dba  17851 Sep 13 21:59 VIEW_USERPERMISSION_3.sql
-rw-r--r-- 1 oracle dba  12953 May 15 02:18 VIEW_USERPERMISSIONLIG_4.sql
-rw-r--r-- 1 oracle dba  17819 May 15 02:18 VIEW_USERPROFILES_1.sql
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

SQL output location

```
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>ls -l reports
total 49496
-rw-r--r-- 1 oracle dba        0 Oct 18 00:59 cat
-rw-r--r-- 1 oracle dba   444483 Nov  8 03:00 forcecom__users_custom_obj_count.csv
-rw-r--r-- 1 oracle dba 34153847 Nov  8 03:00 forcecom__users_custom_obj_report.csv
-rw-r--r-- 1 oracle dba   108154 Nov  8 02:00 lightning__users_custom_obj_count.csv
-rw-r--r-- 1 oracle dba  7952601 Nov  8 02:00 lightning__users_custom_obj_report.csv
-rw-r--r-- 1 oracle dba   155662 Nov  8 20:25 review_lightning_access.csv
-rw-r--r-- 1 oracle dba  7853987 Oct 17 23:18 VIEW_LIGHTNING_OBJ_PERMISSIONS.csv
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

B breached@Lightning.com
To ● Jitender Saini

Archive 12/1/2022

ⓘ You forwarded this message on 12/1/2021 10:50 PM.

Wed Dec 1 01:00:27 PST 2021

Hi Team,

Non Lightning Access granted to Lightning Profile User.
Please check and remove Permission set granting Non Lightning Access.

"ID"|"USERNAME"|"NAME"|"PROFILEID"|"PROFILENAME"|"PROFILETYPE"|"OBJECTBREACHED"|"PERMISSIONBREACHED"
"0053w000008ZZklAAG"|"alinka@cadence.com"|"Alinka Flaminia"|"00e3w000002Nh0pAAC"|"4_4 - Apttus Lightning"|"LIGHTNING"|"BREACHED"|"NOT Breached"
"005d0000003W30gAAC"|"jdevera@cadence.com"|"Jason DeVera"|"00e3w000002Nh0pAAC"|"4_4 - Apttus Lightning"|"LIGHTNING"|"BREACHED"|"NOT Breached"
"005d0000001T4G2AAK"|"smitha@cadence.com"|"Smitha Thimmaiah"|"00e3w000002Nh0pAAC"|"4_4 - Apttus Lightning"|"LIGHTNING"|"BREACHED"|"NOT Breached"
"005d0000001T3uqAAC"|"phurat@cadence.com"|"Philippe Hurat"|"00e3w000002Nh0pAAC"|"4_4 - Apttus Lightning"|"LIGHTNING"|"BREACHED"|"NOT Breached"
"005d0000001T37GAAS"|"dmcnamar@cadence.com"|"Denise Creegan"|"00e3w000002Nh0pAAC"|"4_4 - Apttus Lightning"|"LIGHTNING"|"BREACHED"|"NOT Breached"

Thanks & Regards,

SFDC Config Team.
This is Auto Generated Email.

3. Force.com and Salesforce platform users custom object count report. (200 custom objects restriction)

Job scheduled on wcoratstdbl0 server

```
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>hostname
wcoratstdbl02
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>crontab -l | grep gen_forcecom_users_obj_count.sh
00 03 * * * /usr/orasys/work/jsaini/LIGHTNING_2021/gen_forcecom_users_obj_count.sh /dev/null 2>&1
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

Script required.

gen_forcecom_users FORCECOM_OBJ_PE
_obj_count.sh   RMISSIONS.sql

View location:
```
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>pwd
/usr/orasys/work/jsaini/LIGHTNING_2021
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>ls -l create_view_21/FORCECOM_OBJ_PERMISSIONS.sql
-rw-r--r-- 1 oracle dba 2690 Oct 18 02:32 create_view_21/FORCECOM_OBJ_PERMISSIONS.sql
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

This script will create VIEW_FORCECOM_OBJ_PERMISSIONS view and this view will be used to generate the report for the focre.com users object count.

Tue Oct 19 23:55:47 PDT 2021

Hi Team,

Please find attaced the no of custom objects assigned to All force.com profiles users report.

Maximum 90 Custom object assigned to Force.com User.

"ID"|"USERNAME"|"NAME"|"EMAIL"|"PROFILEID"|"No of Custom Objects Assigned"
"005d0000004CjbDAAS"|"sreeram@cadence.com"|"Sreeram Chandrasekar"|"sreeram@cadence.com"|"00ed0000000U7LZAA0"|90
"005d0000001T3cjAAC"|"ckrishna@cadence.com"|"Krishna Chakravadhanula"|"ckrishna@cadence.com"|"00ed0000000U7LZAA0"|90
"005d0000003TVhSAAW"|"bbudlong@cadence.com"|"Brad Budlong"|"bbudlong@cadence.com"|"00ed0000000U7LZAA0"|89
"005d0000001T36VAAS"|"ianp@cadence.com"|"Ian Procter"|"ianp@cadence.com"|"00ed0000000U7LZAA0"|75
"005d0000001T42qAAC"|"lbtan@cadence.com"|"Lip-Bu Tan"|"lbtan@cadence.com"|"00ed0000000U7LZAA0"|74
"005d0000001T4F4AAK"|"tomv@cadence.com"|"Tom de Vries"|"tomv@cadence.com"|"00ed0000000U7LZAA0"|74
"005d0000001T31KAAS"|"naser@cadence.com"|"Naser Awad"|"naser@cadence.com"|"00ed0000000U7LZAA0"|73
"005d0000001T3W6AAK"|"lcmilano@cadence.com"|"Louis Milano"|"lcmilano@cadence.com"|"00ed0000000U7LZAA0"|73

Thanks & Regards,

SFDC Config Team.

4. Lightning profile users custom object count report. (200 custom objects restriction)

Job scheduled on wcoratstdbl0 server.

```
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>hostname
wcoratstdbl02
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>crontab -l | grep gen_forcecom_users_obj_count.sh
00 03 * * * /usr/orasys/work/jsaini/LIGHTNING_2021/gen_forcecom_users_obj_count.sh /dev/null 2>&1
wcoratstdbl02:eotcdvdb:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

Script Required

gen_lightning_users_   LIGHTNING_OBJ_PER
obj_count.sh   MISSIONS.sql

View location

```
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>pwd
/usr/orasys/work/jsaini/LIGHTNING_2021
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>ls -l create_view_21/LIGHTNING_OBJ_PERMISSIONS.sql
-rw-r--r-- 1 oracle dba 2586 Oct 17 23:15 create_view_21/LIGHTNING_OBJ_PERMISSIONS.sql
wcoratstdbl02:sfmon:/usr/orasys/work/jsaini/LIGHTNING_2021>
```

This script will create VIEW_LIGHTNING_OBJ_PERMISSIONS view and this view will be used to generate the report for the Lightning users object count.

Tue Oct 19 23:54:52 PDT 2021

Hi Team,

   Please find attaced the no of custom objects assigned to All lighting profiles users report.

Maximum 121 Custom object assigned to Lightning User.

"ID"|"USERNAME"|"NAME"|"EMAIL"|"PROFILEID"|"No of Custom Objects Assigned"
"005d0000000q5SvAAI"|"yasminv@cadence.com"|"Yasmin Vermeulen"|"yasminv@cadence.com"|"00e3w000002Nh0pAAC"|121
"005d0000001T4TEAA0"|"gheewala@cadence.com"|"Manishkumar Gheewala"|"gheewala@cadence.com"|"00e3w000002Nh0pAAC"|93
"005d0000001T5hTAAS"|"vivekc@cadence.com"|"Vivek Chickermane"|"vivekc@cadence.com"|"00e3w000002Nh0pAAC"|90
"005d0000001T37YAAS"|"kanwars@cadence.com"|"Kanwarpal Singh"|"kanwars@cadence.com"|"00e3w000002Nh0pAAC"|90
"005d0000003Vc44AAC"|"lavanyan@cadence.com"|"Nimmagadda Lavanya"|"lavanyan@cadence.com"|"00e3w000002Nh0pAAC"|88
"005d0000001T3SfAAK"|"tarak@cadence.com"|"Tarak Ray"|"tarak@cadence.com"|"00e3w000002Nh0pAAC"|80
"005d0000002JndxAAC"|"jshao@cadence.com"|"Jun Shao"|"jshao@cadence.com"|"00e3w000002Nh0pAAC"|78
"005d0000002mn2eAAA"|"nviswan@cadence.com"|"Natarajan Viswanathan"|"nviswan@cadence.com"|"00e3w000002Nh0pAAC"|78

Thanks & Regards,

SFDC Config Team.

5. Salesforce Profile Assigned/Upgrade report.

JOB scheduled to run every day.

```
[codedev@vlsj-deploybox exportPROD_21]$ hostname
vlsj-deploybox
[codedev@vlsj-deploybox exportPROD_21]$ crontab -l | grep  review_profile_upgrade_report.sh
02 00 * * * (source /software/codedev/.bashrc ; cd /software/codedev/misc_script/UTIL/exportPROD_21 && bash review_profile_upgrade_report.sh)
[codedev@vlsj-deploybox exportPROD_21]$
```

Scripts required to generate the report.

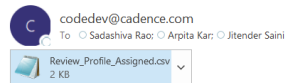review_profile_upgrade_report.sh   soqlDir.zip

Script location

```
                1 codedev apache      27 Nov 11 00:05 capture_time.txt
[codedev@vlsj-deploybox exportPROD_21]$ pwd
/software/codedev/misc_script/UTIL/exportPROD_21
[codedev@vlsj-deploybox exportPROD_21]$ ls -altr
total 76
-rw-r--r--  1 codedev apache   595 Dec 10  2020 .project
-rw-r--r--  1 codedev apache   232 Dec 10  2020 .classpath
drwxr-xr-x  2 codedev apache   203 Apr 21  2021 ScriptLog
-rw-r--r--  1 codedev apache    17 Aug 16 21:55 Key
drwxr-xr-x  3 codedev apache    26 Aug 17 21:45 export_logs
drwxr-xr-x  2 codedev apache   197 Aug 27 03:28 ant-lib
drwxr-xr-x  9 codedev apache  4096 Sep 22 06:39 .junk-22Sep-2021
-rw-r--r--  1 codedev apache    21 Sep 22 06:44 objects.txt
-rw-r--r--  1 codedev apache   193 Sep 22 07:01 email_alert.email1
-rwxr-xr-x  1 codedev apache  1740 Sep 22 07:03 export_obj_PROD.sh-org
-rw-r--r--  1 codedev apache  4238 Sep 22 07:05 build_export.xml
-rw-r--r--  1 codedev apache   181 Sep 22 07:05 prod_build.properties
-rw-r--r--  1 codedev apache  1560 Sep 22 07:22 process_export_template.xml
drwxr-xr-x  2 codedev apache    39 Sep 22 22:04 .old
-rwxr-xr-x  1 codedev apache  3154 Sep 22 23:15 export_obj_PROD_manual.sh
drwxr-xr-x  2 codedev apache    59 Sep 22 23:40 exportDirprod
drwxr-xr-x 12 codedev apache   236 Oct 14 04:50 ..
-rwxr-xr-x  1 codedev apache  4192 Oct 19 21:37 review_profile_upgrade_report.sh ✓
drwxr-xr-x  2 codedev apache  4096 Oct 19 21:43 .jsaini-20Oct-2021
-rwxr-xr-x  1 codedev apache  2750 Oct 19 22:03 sfdc_users_comp_with_workday.sh
drwxr-xr-x 11 codedev apache  4096 Oct 19 22:03 .
drwxr-xr-x  2 codedev apache    51 Oct 24 02:10 soqlDir
-rw-r--r--  1 codedev apache    96 Nov 10 17:00 email_alert.email
drwxr-xr-x  2 codedev apache   101 Nov 11 00:05 config
-rw-r--r--  1 codedev apache    29 Nov 11 00:05 capture_time.txt
[codedev@vlsj-deploybox exportPROD_21]$ █
```

[Review Profile Assigned in SFDC Prod]

C codedev@cadence.com
   To ○ Sadashiva Rao; ○ Arpita Kar; ○ Jitender Saini

   ↰ Reply   ↞ Reply All
   Wed

📄 Review_Profile_Assigned.csv
   2 KB

Hi Team,

The following profile assignment reported in Salesforce Production.
Please make sure that ONLY necessary profile is assigned to User.

"ID","ACTION","CREATEDBY.NAME","CREATEDDATE","DISPLAY","SECTION"
"0Ym3w00000xqynZCAQ","changedprofileforuser","Kris Landato","2021-10-18T17:42:56.000Z","Changed profile for user Shaik Bashirunnisa from Cadence General User Force.com to 5_4_Support TFO AE","Manage Users"
"0Ym3w00000xqz8XCAQ","changedprofileforuser","Andrew Roohi","2021-10-18T18:50:24.000Z","Changed profile for user Michael Matsuda from Cadence General User Force.com to 4_1 - Sales Finance _Forecast_","Manage Users"
"0Ym3w00000xr0jxCAA","changedprofileforuser","Rachit Harjai","2021-10-19T07:11:19.000Z","Changed profile for user Yue Yan from Cadence General User Lightning to 5_3_Support Manager/AE","Manage Users"
"0Ym3w00000xr0lTCAQ","changedprofileforuser","Jitender Saini","2021-10-19T07:33:11.000Z","Changed profile for user Santhosh S from 4_4 - Apttus Lightning to CDNReadOnly","Manage Users"
"0Ym3w00000xr0loCAA","changedprofileforuser","Rachit Harjai","2021-10-19T07:38:42.000Z","Changed profile for user Lakkakula Sai Pavan from Cadence General User Lightning to 5_3_Support Manager/AE","Manage Users"
"0Ym3w00000xr0n1CAA","changedprofileforuser","Rachit Harjai","2021-10-19T07:52:58.000Z","Changed profile for user Yue Meng from Cadence General User Force.com to 5_3_Support Manager/AE","Manage Users"
"0Ym3w00000xr1GcCAI","changedprofileforuser","Rachit Harjai","2021-10-19T11:30:27.000Z","Changed profile for user Aishwarya Rai from Cadence General User Lightning to 5_4_Support TFO AE","Manage Users"
"0Ym3w00000xr1H6CAI","changedprofileforuser","Rachit Harjai","2021-10-19T11:36:26.000Z","Changed profile for user Gowri Revanoor from Cadence General User Lightning to 5_4_Support TFO AE","Manage Users"
"0Ym3w00000xr1HRCAY","changedprofileforuser","Rachit Harjai","2021-10-19T11:38:41.000Z","Changed profile for user Mohamed Naeem from Cadence General User Force.com to 5_4_Support TFO AE","Manage Users"

Thanks & Regards,

SFDC Config Team.

6. Compare Salesforce active users with workday terminated users report and inform interface team if any workday terminated user is active in salesforce.

Job scheduled on vlsj-deploybox server to generate Salesforce active users list and ftp to sapsmsn3.

```
[codedev@vlsj-deploybox exportPROD_21]$ hostname
vlsj-deploybox
[codedev@vlsj-deploybox exportPROD_21]$ crontab -l | grep sfdc_users_comp_with_workday.sh
00 19 * * * (source /software/codedev/.bashrc ; cd /software/codedev/misc_script/UTIL/exportPROD_21 && bash sfdc_users_comp_with_workday.sh)
[codedev@vlsj-deploybox exportPROD_21]$ █
```

Scripts required to generate the report.

soqlDir.zip

sfdc_users_comp_wit
h_workday.sh

Script location

```
[codedev@vlsj-deploybox exportPROD_21]$ ls -altr
total 76
-rw-r--r--   1 codedev apache   595 Dec 10  2020 .project
-rw-r--r--   1 codedev apache   232 Dec 10  2020 .classpath
drwxr-xr-x   2 codedev apache   203 Apr 21  2021 ScriptLog
-rw-r--r--   1 codedev apache    17 Aug 16 21:55 Key
drwxr-xr-x   3 codedev apache    26 Aug 17 21:45 export_logs
drwxr-xr-x   2 codedev apache   197 Aug 27 03:28 ant-lib
drwxr-xr-x   9 codedev apache  4096 Sep 22 06:39 .junk-22Sep-2021
-rw-r--r--   1 codedev apache    21 Sep 22 06:44 objects.txt
-rw-r--r--   1 codedev apache   193 Sep 22 07:01 email_alert.email1
-rwxr-xr-x   1 codedev apache  1740 Sep 22 07:03 export_obj_PROD.sh-org
-rw-r--r--   1 codedev apache  4238 Sep 22 07:05 build_export.xml
-rw-r--r--   1 codedev apache   181 Sep 22 07:05 prod_build.properties
-rw-r--r--   1 codedev apache  1560 Sep 22 07:22 process_export_template.xml
drwxr-xr-x   2 codedev apache    39 Sep 22 22:04 .old
-rwxr-xr-x   1 codedev apache  3154 Sep 22 23:15 export_obj_PROD_manual.sh
drwxr-xr-x   2 codedev apache    59 Sep 22 23:40 exportDirprod
drwxr-xr-x  12 codedev apache   236 Oct 14 04:50 ..
-rwxr-xr-x   1 codedev apache  4192 Oct 19 21:37 review_profile_upgrade_report.sh
drwxr-xr-x   2 codedev apache  4096 Oct 19 21:43 .jsaini-20Oct-2021
-rwxr-xr-x   1 codedev apache  2750 Oct 19 22:03 sfdc_users_comp_with_workday.sh
drwxr-xr-x  11 codedev apache  4096 Oct 19 22:03 .
drwxr-xr-x   2 codedev apache    51 Oct 24 02:10 soqlDir
-rw-r--r--   1 codedev apache    96 Nov 10 17:00 email_alert.email
drwxr-xr-x   2 codedev apache   101 Nov 11 00:05 config
-rw-r--r--   1 codedev apache    29 Nov 11 00:05 capture_time.txt
[codedev@vlsj-deploybox exportPROD_21]$
```

Job scheduled on sapsmsn3 to compare Salesforce active users with workday users terminated list.

```
sapsmsn3:/oracle/SN3/admin/dbautil/bin>hostname
sapsmsn3
sapsmsn3:/oracle/SN3/admin/dbautil/bin>crontab -l | grep chk_user_with_workday_term_mstr_SFDC.sh
00  */2 * * 1,3 /oracle/SN3/admin/dbautil/bin/chk_user_with_workday_term_mstr_SFDC.sh
sapsmsn3:/oracle/SN3/admin/dbautil/bin>
```

Salesforce Active User list location

```
sapsmsn3:/oracle/SN3/sfdc_users_check>pwd
/oracle/SN3/sfdc_users_check
sapsmsn3:/oracle/SN3/sfdc_users_check>ls -altr
total 84
-rw-r--r--   1 orasn3 dba 70107 Nov 10 17:00 active_users_in_SFDC.txt
drwxr-xr-x  80 orasn3 dba  4096 Nov 11 03:03 ..
drwxr-xr-x   2 orasn3 dba  4096 Nov 11 03:04 arch
drwxr-xr-x   3 orasn3 dba  4096 Nov 11 03:04 .
sapsmsn3:/oracle/SN3/sfdc_users_check>
```

Script required to generate the workday terminated report.

chk_user_with_workd
ay_term_mstr_SFDC.s

Please inactivate WorkDay Terminated Users in the SFDC System. !!!!!!

SD **SAP Database Administrator <orasn3@cadence.com>**
To ⊞**app-integration-pool**; ○ Venkata Gupta Mathamsetty Nagamanikya; ○ Sadashiva Rao; ○ Jitender Saini

Hi Team,

The following Users are identified in the SFDC system which are terminated from Workday.
Please inform Interface Team to inactivate these users in Salesforce.

User Name:Term Date:Term Stat
aburg:08/24/2021:T
snehat:10/08/2021:T
chaganti:10/08/2021:T

Thanks & Regards,

SFDC Admin Team.