

- [dump.sh](#) [hydra-utils](#)
- [hydra-utils](#) [Docker](#)
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 This article is in English [Working with the DB Dumps](#)

`dump.sh`, `deb` `hydra-utils`. `Debian 9` . `Oracle Linux` `Docker`-.
:

- **export** — . , (, /var/oradata/dumps).
- **drop** — . , .
- **import** — . . , (, /var/oradata/dumps). « ».

:

- **-i** —
- **-o** —
- **-p** — *AIS_NET*
- **-f** — ()
- **-s** —

dump.sh [hydra-utils](#)

`hydra-utils` - `/opt/hydra/oracle/scripts`. `oracle` . `oracle` *sudo* :

```
sudo -u oracle -i
```

hydra *hydra2*.

1. *hydra*.

```
/opt/hydra/oracle/scripts/dump.sh -i hydra -p password -f hydra_dump export
```

2. *hydra2*.

```
/opt/hydra/oracle/scripts/dump.sh -i hydra2 -p password drop
```

3. *hydra2*.

```
/opt/hydra/oracle/scripts/dump.sh -i hydra2 -p password -f hydra_dump import
```

:

```
Failing sql is:
GRANT SELECT ON "AIS_NET"."SR_V_GOOD_SERVS" TO "NET_GOODS"
ORA-39083: Object type OBJECT_GRANT failed to create with error:
ORA-01917: user or role 'NET_GOODS' does not exist
```

,... `AIS_NET`. .

hydra-utils [Docker](#)

`Docker` `Linux 4` .

`hydra-utils`:

1.

```
sudo mkdir /etc/hydra/hydra-utils
```

2. docker-compose.yml :
Oracle 11 docker-compose.yml:

/etc/hydra/hydra-utils/docker-compose.yml

```
version: '3.7'
services:
  hydra-utils:
    container_name: hydra-utils
    image: docker.dl.latera.ru:5000/hydra-utils:11g
    network_mode: "host"
    environment:
      - TZ=${TZ}
      - ORACLE_HOME=${ORACLE_HOME}
    volumes:
      - /u01/app/oracle/product/11g:/u01/app/oracle/product/11g:ro
      - /u01/app/oracle/product/11g/network/admin/tnsnames.ora:/app/tnsnames.ora:ro
```

Oracle 19:

/etc/hydra/hydra-utils/docker-compose.yml

```
version: '3.7'
services:
  hydra-utils:
    container_name: hydra-utils
    image: docker.dl.latera.ru:5000/hydra-utils:latest
    network_mode: "host"
    environment:
      - TZ=${TZ}
    volumes:
      - /u01/app/oracle/product/19c/network/admin/tnsnames.ora:/app/tnsnames.ora
```

TZ- . , /etc/environment.:

TZ

TZ="Asia/Krasnoyarsk"

ORACLE_HOME- Oracle. /etc/environment.

3. :

```
cd /etc/hydra/hydra-utils/
sudo docker-compose pull
```

hydra hydra2 (Oracle 19 hydra-utils hydra-utils-19):

1. hydra.

```
sudo docker-compose -f /etc/hydra/hydra-utils/docker-compose.yml run --rm hydra-utils dump.sh -i hydra -
p password -f hydra_dump export
```

2. hydra2.

```
sudo docker-compose -f /etc/hydra/hydra-utils/docker-compose.yml run --rm hydra-utils dump.sh -i hydra2 -p password drop
```

3. *hydra2*.

```
sudo docker-compose -f /etc/hydra/hydra-utils/docker-compose.yml run --rm hydra-utils dump.sh -i hydra2 -p password -f hydra_dump import
```



DDL

DDL, TRUNCATE, ORA-01466: unable to read data - table definition has changed



expdp(dump.sh) , (, 2- 4-).



2

drop ()



3

(_impdp.log)



4

(_expdp.log)



5

, DEFAULT, . . .: [Export and Import Modes](#)

DDL SQL :

```
SELECT DBMS_METADATA.GET_DDL('PROFILE',PROFILE)
FROM DBA_USERS
WHERE PROFILE != 'DEFAULT'
GROUP BY PROFILE;
```

RMAN.

/ CTRL-C kill_job:

```
...
. . exported "AIS_NET"."SS_JOB_LOGS"          635.2 MB 1550063 rows
. . exported "AIS_NET"."SD_PROCESSING_REQUESTS_T" 563.8 MB    7204 rows
. . exported "AIS_NET"."SD_MV_DOCUMENTS"       479.7 MB 3247473 rows
^C
Export> kill_job
Are you sure you wish to stop this job ([yes]/no): yes
```



```
DECLARE
ch_AlterTypes  VARCHAR2(1) := 'N';
num_MaxRetries NUMBER := 0;
num_Counter    NUMBER := 0;
--
num_Retries    NUMBER;

PROCEDURE TRY_TO_ALTER_TYPE(
    vch_VC_TYPE_NAME          IN ALL_OBJECTS.OBJECT_NAME%TYPE)
IS
    num_Count                NUMBER;
BEGIN
    SELECT COUNT(*)
    INTO num_Count
    FROM ALL_OBJECTS
    WHERE OBJECT_NAME = vch_VC_TYPE_NAME
    AND   OBJECT_TYPE = 'TYPE';

    IF num_Count > 0 THEN
        EXECUTE IMMEDIATE 'ALTER TYPE ' || vch_VC_TYPE_NAME || ' COMPILE';
    END IF;
END TRY_TO_ALTER_TYPE;

BEGIN
    IF ch_AlterTypes = 'Y' THEN
        TRY_TO_ALTER_TYPE('equipment_bind');
        TRY_TO_ALTER_TYPE('equipment_binds');
        TRY_TO_ALTER_TYPE('HYDRA_ANYDATA');
        TRY_TO_ALTER_TYPE('HYDRA_ANYDATA_TABLE');
        TRY_TO_ALTER_TYPE('application_context');
        TRY_TO_ALTER_TYPE('deferred_task');
        TRY_TO_ALTER_TYPE('command_result');
        TRY_TO_ALTER_TYPE('command_results');
        TRY_TO_ALTER_TYPE('command');
        TRY_TO_ALTER_TYPE('commands');
        TRY_TO_ALTER_TYPE('profile_attribute');
        TRY_TO_ALTER_TYPE('profile_attributes');
        TRY_TO_ALTER_TYPE('profile');
        TRY_TO_ALTER_TYPE('profiles');
        TRY_TO_ALTER_TYPE('sys_msg_line');
        TRY_TO_ALTER_TYPE('sys_msg_lines');
        TRY_TO_ALTER_TYPE('system_message');
        TRY_TO_ALTER_TYPE('system_messages');
        TRY_TO_ALTER_TYPE('service');
        TRY_TO_ALTER_TYPE('services_list');
        TRY_TO_ALTER_TYPE('account_services');
        TRY_TO_ALTER_TYPE('LOG_MESSAGE');
    END IF;

    --
    FOR rl_Object IN (
        SELECT OWNER,
               OBJECT_NAME,
               OBJECT_TYPE
        FROM ALL_OBJECTS A
        WHERE OBJECT_TYPE IN ('PACKAGE', 'PACKAGE BODY', 'TRIGGER', 'VIEW')
        AND   OWNER = 'AIS_NET'
        AND   STATUS = 'INVALID'
```

```

ORDER BY OBJECT_TYPE, OBJECT_NAME)
--
LOOP
    num_Retries := 0;
    num_Counter := num_Counter + 1;

    <<retry>>

    --
    BEGIN
        --
        IF rl_Object.OBJECT_TYPE = 'PACKAGE BODY' THEN
            EXECUTE IMMEDIATE 'ALTER PACKAGE " ' || rl_Object.OWNER || '".' || rl_Object.OBJECT_NAME || '" COMPIL
            BODY';
        ELSE
            EXECUTE IMMEDIATE 'ALTER ' || rl_Object.OBJECT_TYPE || ' " ' || rl_Object.OWNER || '".' || rl_Object.
            OBJECT_NAME || '" COMPIL';
        END IF;
        EXCEPTION WHEN others THEN
            IF num_Retries < num_MaxRetries THEN
                num_Retries := num_Retries + 1;
                GOTO Retry;
            ELSE
                DBMS_OUTPUT.PUT_LINE(' ' || rl_Object.OBJECT_TYPE || ' ' || rl_Object.OWNER || '.' || rl_Object.
                OBJECT_NAME);
            END IF;
        END;
    END LOOP;

    DBMS_OUTPUT.PUT_LINE('Total processed: ' || num_Counter);

    IF ch_AlterTypes = 'Y' THEN
        SYS.FIX_HYDRA_OBJECT_TYPES;
    END IF;
END;
/

```

```

SELECT OWNER,
       OBJECT_NAME,
       OBJECT_TYPE
FROM   ALL_OBJECTS A
WHERE  OBJECT_TYPE IN ('PACKAGE', 'PACKAGE BODY', 'TRIGGER', 'VIEW')
AND    OWNER = 'AIS_NET'
AND    STATUS = 'INVALID'
ORDER BY OBJECT_TYPE, OBJECT_NAME;

```

, , Oracle [Bug 18881811 - Data Pump Import of Wrapped PLSQL Corrupts the Body](#)

Oracle .

```

.
, .
, sqlplus , screen ( )

```

```

DECLARE
    num_N_JOB_ID      NUMBER := -101;
    --
    ch_Invalidate      SS_PARVALUES.C_FLAG_VALUE%TYPE;
    ch_StaleOnly       SS_PARVALUES.C_FLAG_VALUE%TYPE;
    num_AnalyzePercent SS_PARVALUES.N_VALUE%TYPE;
BEGIN
    DBMS_STATS.SET_GLOBAL_PREFS('NO_INVALIDATE', 'FALSE');

```

```

--
num_AnalyzePercent := SS_PARS_PKG.S.GET_N_VALUE_BY_CODE(
    vch_VC_CODE => 'PAR_JobAnalyzeSchema_AnalyzePercent',
    num_N_JOB_ID => num_N_JOB_ID);

ch_StaleOnly := SS_PARS_PKG.S.GET_C_FLAG_VALUE_BY_CODE(
    vch_VC_CODE => 'PAR_JobAnalyzeSchema_StaleOnly',
    num_N_JOB_ID => num_N_JOB_ID);

ch_Invalidate := SS_PARS_PKG.S.GET_C_FLAG_VALUE_BY_CODE(
    vch_VC_CODE => 'PAR_JobAnalyzeSchema_InvalidateCursors',
    num_N_JOB_ID => num_N_JOB_ID);

--
SS_PARS_PKG.SS_PARVALUES_PUT(
    num_N_PAR_ID          => SS_PARS_PKG.S.GET_PAR_ID_BY_CODE(
        vch_VC_CODE => 'PAR_JobAnalyzeSchema_AnalyzePercent',
        num_N_JOB_ID => num_N_JOB_ID),

    num_N_SUBJECT_ID      => NULL,
    num_N_APPLICATION_ID  => NULL,
    num_N_VALUE           => 100,
    num_N_JOB_ID          => num_N_JOB_ID);

SS_PARS_PKG.SS_PARVALUES_PUT(
    num_N_PAR_ID          => SS_PARS_PKG.S.GET_PAR_ID_BY_CODE(
        vch_VC_CODE => 'PAR_JobAnalyzeSchema_StaleOnly',
        num_N_JOB_ID => num_N_JOB_ID),

    num_N_SUBJECT_ID      => NULL,
    num_N_APPLICATION_ID  => NULL,
    ch_C_FLAG_VALUE       => 'N',
    num_N_JOB_ID          => num_N_JOB_ID);

SS_PARS_PKG.SS_PARVALUES_PUT(
    num_N_PAR_ID          => SS_PARS_PKG.S.GET_PAR_ID_BY_CODE(
        vch_VC_CODE => 'PAR_JobAnalyzeSchema_InvalidateCursors',
        num_N_JOB_ID => num_N_JOB_ID),

    num_N_SUBJECT_ID      => NULL,
    num_N_APPLICATION_ID  => NULL,
    ch_C_FLAG_VALUE       => 'Y',
    num_N_JOB_ID          => num_N_JOB_ID);

COMMIT;

--
SS_JOBS_PKG.MANUAL_START_JOB(num_N_JOB_ID);

--
SS_JOBS_PKG.RUN_JOB(
    num_N_JOB_ID => num_N_JOB_ID,
    ch_C_REASON  => 'M');

DBMS_STATS.SET_GLOBAL_PREFS('NO_INVALIDATE', 'DBMS_STATS.AUTO_INVALIDATE');

--
SS_PARS_PKG.SS_PARVALUES_PUT(
    num_N_PAR_ID          => SS_PARS_PKG.S.GET_PAR_ID_BY_CODE(
        vch_VC_CODE => 'PAR_JobAnalyzeSchema_AnalyzePercent',
        num_N_JOB_ID => num_N_JOB_ID),

    num_N_SUBJECT_ID      => NULL,
    num_N_APPLICATION_ID  => NULL,
    num_N_VALUE           => num_AnalyzePercent,
    num_N_JOB_ID          => num_N_JOB_ID);

SS_PARS_PKG.SS_PARVALUES_PUT(
    num_N_PAR_ID          => SS_PARS_PKG.S.GET_PAR_ID_BY_CODE(
        vch_VC_CODE => 'PAR_JobAnalyzeSchema_StaleOnly',
        num_N_JOB_ID => num_N_JOB_ID),

    num_N_SUBJECT_ID      => NULL,
    num_N_APPLICATION_ID  => NULL,
    ch_C_FLAG_VALUE       => ch_StaleOnly,
    num_N_JOB_ID          => num_N_JOB_ID);

```

```
SS_PARS_PKG.SS_PARVALUES_PUT(  
  num_N_PAR_ID      => SS_PARS_PKG.S.GET_PAR_ID_BY_CODE(  
    vch_VC_CODE => 'PAR_JobAnalyzeSchema_InvalidateCursors',  
    num_N_JOB_ID => num_N_JOB_ID),  
  num_N_SUBJECT_ID  => NULL,  
  num_N_APPLICATION_ID => NULL,  
  ch_C_FLAG_VALUE   => ch_Invalidate,  
  num_N_JOB_ID      => num_N_JOB_ID);  
  
COMMIT;  
END;  
/
```